**https://www.exam-answer.com/microsoft/az-900**

**What is the command to set DNS server for all Docker containers?**

Options are :

* *dockerd --dns-update IP\_ADDRESS*
* *dockerd --set-dns IP\_ADDRESS*
* *dockerd --dns-server IP\_ADDRESS*
* *dockerd --dns IP\_ADDRESS*

**Answer :**dockerd --dns IP\_ADDRESS

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**What is the correct order to backup Docker EE components?**

Options are :

* *Backup DTR, UCP and then Swarm*
* *Backup Swarm ,DTR, and then UCP*
* *Backup Swarm, UCP, and then DTR*
* *Backup UCP,Swarm, and then DTR*

**Answer :**Backup Swarm, UCP, and then DTR

**What is the docker command to backup the UCP?**

Options are :

* *docker ucp backup*
* *docker backup ucp*
* *docker backup all*
* *docker/ucp backup*

**Answer :**docker/ucp backup

**What is the docker command to add or update a published port?**

Options are :

* *docker service update --publish-add*
* *docker service update --publish-port*
* *docker service set --add-port*
* *docker service modify --add-update-port*

**Answer :**docker service update --publish-add

[Docker Certified Associate (DCA) Practice Exams Set 11](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-11)

**What is the difference between UCP workers and managers?**

Options are :

* *Ucp-agent service automatically starts serving UCP components and proxy service only on worker node.*
* *Ucp-agent service automatically starts serving UCP components and proxy service only on manger node.*
* *Ucp-agent service automatically starts serving all UCP components in manager node and only proxy service in worker node.*
* *Ucp-agent service automatically starts serving UCP components in worker node, and only a proxy service in manager node.*

**Answer :**Ucp-agent service automatically starts serving all UCP components in manager node and only proxy service in worker node.

**Which of the below correct  command that need to be executed to sign an image before pushing it to repository ?**

Options are :

* *export TRUST\_DOCKER\_IMAGE=1*
* *export TRUST\_DOCKER\_CONTENT=1*
* *export SIGN\_DOCKER\_IMAGE=1*
* *export DOCKER\_CONTENT\_TRUST=1*

**Answer :**export DOCKER\_CONTENT\_TRUST=1

**Which of the below  Dockerfile  directive would set up the base image that can serve as our starting point for establishing a new image?**

Options are :

* *FROM*
* *BASE*
* *ARG*
* *START*

**Answer :**FROM

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**Which of the following best describes the procedure for backing up the Universal Control Plane (UCP) metadata?**

Options are :

* *Create an archive for all of the data under the /etc/docker/ucp directory.*
* *Create an archive for all of the data under the /var/data/ucp directory.*
* *Run a container from the ucp image with the backup command.*
* *Run a container from the ucp image with the uninstall-ucp command.*

**Answer :**Run a container from the ucp image with the backup command.

**What is the docker command to setup a swarm?**

Options are :

* *docker create swarm*
* *docker init swarm*
* *docker swarm init*
* *docker swarm create*

**Answer :**docker swarm init

**What does the FROM directive do?**

Options are :

* *It indicates the build location of where the image is.*
* *It pulls a file from an external source into the image.*
* *It sets a base image that can be used as a platform to begin builds.*
* *It sets the working directory of containers ran using the image.*

**Answer :**It sets a base image that can be used as a platform to begin builds.

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**Which of the following commands  is correct if container exits due to an error, which manifests as a non-zero exit code.**

Options are :

* *docker run --restart unless-stopped nginx*
* *docker run --restart no nginx*
* *docker run --restart on-failure nginx*
* *docker run --restart failure-only nginx*

**Answer :**docker run --restart on-failure nginx

**Which Docker edition would you choose for obtaining the latest Docker Engine updates?**

Options are :

* *Docker Enterprise Edition (EE)*
* *Docker Developer Edition (DE)*
* *Docker Community Edition (CE)*
* *Either Docker CE or Docker EE*

**Answer :**Either Docker CE or Docker EE

**Which of the following is not backed up when performing a Docker Trusted Registry (DTR) metadata backup?**

Options are :

* *DTR Configurations*
* *Repository metadata.*
* *Docker images.*
* *Role-based access control (RBAC) settings.*

**Answer :**Docker images.

[Docker Certified Associate (DCA) Practice Exams Set 8](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-8)

**What is the endpoint that we can use to check the health of a single UCP manager node?**

Options are :

* *https:///\_ heartbeat*
* *https:///\_ping*
* *https:///\_ health*
* *https:/// \_status*

**Answer :**https:///\_ping

**What is the docker command to roll back to the previous version of a service?**

Options are :

* *docker service �rollback*
* *docker service --rollback-version*
* *docker service update --rollback*
* *docker service update --rollback-version*

**Answer :**docker service update --rollback

**What are the two types of UCP client bundles?**

Options are :

* *Admin user certificate bundles and user certificate bundles.*
* *Docker CLI bundles and Docker web Ui bundles.*
* *Docker UCP Client bundles and DTR client bundles.*
* *Ops client bundels and dev client bundles.*

**Answer :**Admin user certificate bundles and user certificate bundles.

[Docker and Containers: Commands Set 1](https://chercher.tech/docker-certification/docker-and-containers-commands-set-1)

**What is the docker command to display detailed information on one or more networks?**

Options are :

* *docker inspect network*
* *docker network display*
* *docker network inspect*
* *docker network status*

**Answer :**docker network inspect

**What is the docker command to create a container with custom DNS server(s)?**

Options are :

* *docker container create --cusom-dns=IP\_ADDRESS*
* *docker container create �set-dns=IP\_ADDRESS*
* *docker container create --dns=IP\_ADDRESS*
* *docker container create �add-dns=IP\_ADDRESS*

**Answer :**docker container create --dns=IP\_ADDRESS

**Which of the following commands will ensure that a container uses a maximum of 1 GB of active memory?**

Options are :

* *docker run --memory-swap 2G nginx*
* *docker run --memory 1G nginx*
* *docker run --memory-swap 2G --memory-reservation 1G*
* *docker run --memory-reservation 1G nginx*

**Answer :**docker run --memory 1G nginx

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**Niels has an application that consists of multiple different containers that interact with one another. What should he use to manage this application in a Docker Swarm?**

Options are :

* *Niels should use a service with multiple tasks.*
* *Niels should use docker-compose .*
* *Niels should use a stack .*
* *Niels should use a task .*

**Answer :**Niels should use a stack .

**Danny wants to prevent Docker Swarm encryption keys from being stored insecurely on her swarm managers. How can he tackle enforcing a lock on the swarm cluster?**

Options are :

* *Danny can locate the critical files after the installation and delete them.*
* *Danny cannot do this because Docker does not offer this functionality.*
* *The autolock feature must be turned on when the cluster is initialized and cannot be enabled after the fact.*
* *Danny can use the --autolock=true flag with the docker swarm update command.*

**Answer :**Danny can use the --autolock=true flag with the docker swarm update command.

**Where can you get a repository URL for installing the Docker Enterprise Edition (EE)?**

Options are :

* *Docker Hub*
* *Docker Enterprise Hub*
* *Docker Trusted Registry*
* *Docker Marketplace*

**Answer :**Docker Hub

[Docker Certified Associate (DCA) Practice Exams Set 10](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-10)

**What are the requirements to install Docker Trusted Registry (DTR)? (Select all that apply)**

Options are :

* *Make sure the port 8080 and 8443 are open on the node*
* *All nodes must be a worker node managed by Universal Control Plan*
* *DTR can be installed on-premises or on a cloud provider*
* *All nodes must have fixed hostname*

**Answer :**All nodes must be a worker node managed by Universal Control Plan DTR can be installed on-premises or on a cloud provider All nodes must have fixed hostname

**Which of the following is true about building docker images?**

Options are :

* *Every Dockerfile can have only one FROM directive.*
* *Only layers that have changed since the last build (and any following layers) are built.*
* *Every layer of the image is re-built every time docker build is executed.*
* *Every Dockerfile can have only one FROM directive.*

**Answer :**Only layers that have changed since the last build (and any following layers) are built.

**What would be the runtime working directory of a container built from the following Dockerfile?**

**FROM alpine**

**WORKDIR /a**

**WORKDIR /b**

**WORKDIR c**

**CMD pwd**

Options are :

* */c*
* */a*
* */b/c*
* */*

**Answer :**/b/c

[Docker Certified Associate (DCA) Practice Exams Set 15](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-15)

**Which of the following tool to use to create users and teams?**

Options are :

* *Universal Control Plane*
* *Docker Machine*
* *Docker compose*
* *Docker Trusted Registry*

**Answer :**Universal Control Plane

**Where is the option to integrate Docker Enterprise with LDAP?**

Options are :

* *Docker Trusted Registry*
* *Docker Compose*
* *Docker Machine*
* *Universal Control Plane*

**Answer :**Universal Control Plane

**What is the docker command to find the current logging driver for a running container?**

Options are :

* *docker info*
* *docker config*
* *docker inspect*
* *docker status*

**Answer :**docker inspect

[Docker Certified Associate (DCA) Practice Exams Set 16](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-16)

**Describe what the RUN directive does.**

Options are :

* *The RUN directive sets the default command for the image.*
* *The RUN directive executes a command on the host when building an image.*
* *The RUN directive executes a command and commits the resulting changed files as a new layer in the image.*
* *The RUN directive automatically runs a command when a new container gets created.*

**Answer :**The RUN directive executes a command and commits the resulting changed files as a new layer in the image.

**Paul have some containerized software that needs to have a reference to the hostname of the node that the software is running on. Which of the following commands Paul will pass the node hostname as an environment variable into each task in a service?**

Options are :

* *docker service create --env NODE\_HOSTNAME="{{.Node.Hostname}}" nginx*
* *docker service create -e NODE\_HOSTNAME nginx*
* *docker service create --env NODE\_HOSTNAME="{{Hostname}}" nginx*
* *docker service create --pass-node-hostname=true nginx*

**Answer :**docker service create --env NODE\_HOSTNAME="{{.Node.Hostname}}" nginx

**Which of the below statements does not apply to the WORKDIR directive?**

Options are :

* *It affects only the build and does not impact containers that run from the image.*
* *It affects only the build and does not impact containers that run from the image.*
* *It can use both absolute and relative paths.*
* *It affects only the build and does not impact containers that run from the image.*

**Answer :**It affects only the build and does not impact containers that run from the image.

[Docker Certified Associate (DCA) Practice Exams Set 10](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-10)

**Which of the following scenarios would still allow the quorum to have maintenance in a swarm cluster? (Choose two)**

Options are :

* *A 3-node cluster with 1 node down.*
* *A 3-node cluster with 2 nodes down*
* *A 7-node cluster with 3 nodes down.*
* *A 4-node cluster with 2 nodes down.*

**Answer :**A 3-node cluster with 1 node down. A 7-node cluster with 3 nodes down.

**Which of the following commands can we use to view detailed metadata about a container? (select two)**

Options are :

* *docker metadata*
* *docker inspect*
* *docker container inspect*
* *docker query*

**Answer :**docker inspect docker container inspect

**What does the EXPOSE directive do?**

Options are :

* *It causes the container to listen on a port.*
* *It documents ports intended for publishing at the time of running a container.*
* *It automatically publishes ports when running a container.*
* *It makes a container's port accessible externally.*

**Answer :**It documents ports intended for publishing at the time of running a container.

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Which of the following statements truly applies to the ENV directive?**

Options are :

* *It sets an environment variable on the host while the container is running*
* *It sets environment variables that are only visible at the container runtime.*
* *It sets environment variables that are made available in subsequent build steps and to containers at the runtime.*
* *It sets environment variables that are only visible during later build steps*

**Answer :**It sets environment variables that are made available in subsequent build steps and to containers at the runtime.

**In Docker security scan result is available in both UCP and DTR.?**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**What is the docker command to increase number of replicas?**

Options are :

* *docker service replica*
* *docker service increase*
* *docker service scale*
* *docker service build*

**Answer :**docker service scale

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**How to configure the default logging driver?**

Options are :

* *Use --log-driver flag*
* *Set the "log-driver" option in the deamon.json file*
* *Set the "log-driver" option in the key.json file*
* *Use �loging-driver --flag*

**Answer :**Set the "log-driver" option in the deamon.json file

**What are the steps to perform  to sign images in a way that UCP trusts them? (select all that apply)**

Options are :

* *Delegate signing to the keys in your UCP client bundle*
* *Initialize trust metadata for the repository*
* *Approve image sign on UCP*
* *Configure Notary client*

**Answer :**Delegate signing to the keys in your UCP client bundle Initialize trust metadata for the repository Configure Notary client

**What is the docker command to backup the UCP?**

Options are :

* *docker backup ucp*
* *docker/ucp backup*

**Answer :**docker/ucp backup

**What are the requirements to install Docker Trusted Registry (DTR)? (Select all that apply)**

Options are :

* *Make sure the port 8080 and 8443 are open on the node*
* *All nodes must have a fixed hostname*
* *DTR can be installed on-premises or on a cloud provider*
* *All nodes must be a worker node managed by Universal Control Pla*

**Answer :**All nodes must have a fixed hostname DTR can be installed on-premises or on a cloud provider All nodes must be a worker node managed by Universal Control Pla

[Docker Certified Associate (DCA) Practice Exams Set 15](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-15)

**What is the docker command to setup a swarm?**

Options are :

* *docker init swarm*
* *docker create swarm*
* *docker swarm create*
* *docker swarm init*

**Answer :**docker swarm init

**What is the recommended approach to set storage driver?**

Options are :

* *Set the "storage-driver" option in the daemon.json file*
* *Use --storage-driver flag when running dockerd*

**Answer :**Set the "storage-driver" option in the daemon.json file

**What is the docker command to add a node to a swarm?**

Options are :

* *docker swarm join*
* *docker swarm create-node*
* *docker join swarm*
* *docker swarm add-node*

**Answer :**docker swarm join

[Docker Certified Associate (DCA) Practice Exams Set 15](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-15)

**What is the correct order to upgrade a Docker cluster?**

Options are :

* *Upgrade DTR, UCP, then engine and kernel*
* *Upgrade engine and kernel, DTR, and then UCP*
* *Upgrade engine and kernel, UCP, and then DTR*
* *Upgrade UCP, DTR, then engine and kernel*

**Answer :**Upgrade engine and kernel, UCP, and then DTR

**What is the function of docker inspect command?**

Options are :

* *To return low-level information on Docker objects*
* *To display system-wide information*
* *To manage Docker configs*
* *To inspect changes to files or directories on a container's filesystem*

**Answer :**To return low-level information on Docker objects

**What is the default format of docker inspect output?**

Options are :

* *yaml*
* *html*
* *xml*
* *json*

**Answer :**json

[Docker and Containers: Commands Set 3](https://chercher.tech/docker-certification/docker-and-containers-commands-set-3)

**What are the two types of docker swarm services?**

Options are :

* *distributed and replicated services*
* *replicated and local services*
* *local and global services*
* *replicated and global services*

**Answer :**replicated and global services

**What is the difference between a replicated and a global service?**

Options are :

* *Number of identical tasks can be specified for a replicated service. There is no pre-specified number of tasks for global service*
* *Replicated service can only be deployed on manager node. Global service can be deployed on both manager and worker node*
* *Replicated service runs one task on every node. Global service runs multiple task on every node*
* *Good candidates for replicated service are monitoring agents that you want to run on every node in the swarm. Good candidates for global service are http servers.*

**Answer :**Number of identical tasks can be specified for a replicated service. There is no pre-specified number of tasks for global service

**What is the docker command to add a network to a service?**

Options are :

* *docker service modify �add-network*
* *docker service update �network-add*
* *docker service set --add-network*
* *docker service add-network*

**Answer :**docker service update �network-add

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**How is the ADD directive different from COPY ? (Choose two)**

Options are :

* *The ADD directive can transfer a specific file between build stages.*
* *The ADD directive can pull a file from an external URL.*
* *The ADD directive can extract an archive into the image.*
* *The ADD directive can transfer files over to a specific location inside the image.*

**Answer :**The ADD directive can pull a file from an external URL. The ADD directive can extract an archive into the image.

**What command would we use to locate the layered file system data for an image on a machine?**

Options are :

* *docker image inspect*
* *docker layer inspect*
* *docker pull history*
* *docker image layers*

**Answer :**docker image inspect

**Which of the following namespaces is not enabled by default?**

Options are :

* *pid*
* *uts*
* *user*
* *mnt*

**Answer :**user

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Which of the following docker command can be used to find out all the ports mapped? (select all that apply).**

Options are :

* *docker inspect*
* *docker network ls*
* *docker ps*
* *docker port*

**Answer :**docker inspect docker ps docker port

**You can monitor the status of UCP by using the web UI or the CLI?**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**You created a docker swarm cluster using "docker swarm init" command. After creating the swarm cluster you got a command using which you could add a worker to your cluster. But you have lost that command and now you want to add new workers to your cluster. How would you do that?**

Options are :

* *docker swarm init-token worker*
* *docker swarm init-token manager*
* *docker swarm join-token manager*
* *docker swarm join-token worker (Correct)*

**Answer :**docker swarm join-token worker

[Docker and Containers: Commands Set 3](https://chercher.tech/docker-certification/docker-and-containers-commands-set-3)

**Which of the following statement below is NOT TRUE about docker-compose?**

Options are :

* *docker-compose is well suited for development environments*
* *docker-compose can not be used to create new container images*
* *docker-compose will bring up services as specified in docker-compose.yml*
* *docker-compose can be used with docker swarm to run services across different workers. (Correct)*

**Answer :**docker-compose can be used with docker swarm to run services across different workers.

**Which of the following version of "docker-compose.yml" files can you use with "docker stack" command?**

Options are :

* *version 1 and above*
* *version 2 and above*
* *version 3 and above (Correct)*
* *Any version*

**Answer :**version 3 and above

**Which of the following statements is NOT TRUE about replicated service in docker?**

Options are :

* *A service running in a replicated mode may not run in all nodes.*
* *For replicated services, the scheduler places one task on each available node that meets the service�s placement constraints and resource requirements. (Correct)*
* *If you don�t specify a mode, the service defaults to replicated*
* *For replicated services you can specify number of replica tasks*

**Answer :**For replicated services, the scheduler places one task on each available node that meets the service�s placement constraints and resource requirements.

**A global service is a service that runs \_\_\_\_ task/tasks on every node that meet the placement and resource constraints**

Options are :

* *many*
* *one (Correct)*
* *more than one*
* *none*

**Answer :**one

**Which one is a valid command to run a global service in docker swarm?**

Options are :

* *docker service create --mode global (Correct)*
* *docker swarm create --mode global*
* *docker service create --global*
* *docker swarm create --global*

**Answer :**docker service create --mode global

**You are running a service called 'webserver'. You need to increase the number of replicas of that service to 5. Which of the following commands would achieve this?**

Options are :

* *docker swarm scale webserver=5*
* *docker service scale webserver=5 (Correct)*
* *docker service --replicas=5 webserver*
* *docker swarm --replicas=5 webserver*

**Answer :**docker service scale webserver=5

**Your company needs to run a custom monitoring application published in Docker Hub called "examplecorp/stats-collector". You must ensure this would run in all swarm nodes, regardless how many nodes you currently have or if a new one would join the swarm eventually. This monitoring system requires an environment variable called ENDPOINT\_ADDRESS that sends the metrics to an external service hosted at 'service.example.com'. Which of the following commands would accomplish these requirements?**

Options are :

* *docker service create --name stats-collector --replicas=1 --entrypoint ADDRESS="service.example.com" examplecorp/stats-collector*
* *docker service create --name stats-collector --replicas=auto --entrypoint ADDRESS="service.example.com" examplecorp/stats-collector*
* *docker service create --name stats-collector --mode=global -e ENDPOINT\_ADDRESS="service.example.com" examplecorp/stats-collector (Correct)*
* *docker service create --name stats-collector --mode=replicated -e ENDPOINT\_ADDRESS="service.example.com" examplecorp/stats-collector*

**Answer :**docker service create --name stats-collector --mode=global -e ENDPOINT\_ADDRESS="service.example.com" examplecorp/stats-collector

**Which of the following is NOT TRUE about running a stack of services?**

Options are :

* *The docker-compose.yaml file can be used both on docker stack and docker-compose.*
* *The docker-compose.yaml file must be version 3.0 or higher in order to use it in a stack.*
* *Docker stack can run without docker swarm (Correct)*
* *A stack would run across all nodes on a Swarm, while running on docker-compose would run in a single node, even if it is a swarm node.*

**Answer :**Docker stack can run without docker swarm

**You are running UCP service on a swarm with 3 managers and 2 workers. You need to schedule a backup policy for your UCP service. How many nodes you need to fully back up this service?**

Options are :

* *2*
* *1 (Correct)*
* *3*
* *5*

**Answer :**1

**Which of the following statements is NOT TRUE regarding to running a container vs running a service?**

Options are :

* *You can run multiple copies of a container image in both cases.*
* *You can achieve fault-tolerance running mutiple copies of a container image without the need to run them as a service. (Correct)*
* *Running your container image as a service eliminates the needs of setting up a load balancer.*
* *Docker Secrets is available while running your container image as a service.*

**Answer :**You can achieve fault-tolerance running mutiple copies of a container image without the need to run them as a service.

**Which of the following is NOT true regarding docker swarm mode?**

Options are :

* *You can deploy both kinds of nodes, managers and workers, using the Docker Engine*
* *For each service, you can declare the number of tasks you want to run. When you scale up or down, the swarm manager automatically adapts by adding or removing tasks to maintain the desired state.*
* *The swarm manager automatically assigns addresses to the containers on the overlay network when it initializes or updates the application.*
* *Docker swarm mode is a plugin which you can install alongside docker to run a cluster of docker engines (Correct)*

**Answer :**Docker swarm mode is a plugin which you can install alongside docker to run a cluster of docker engines

**What is docker command to create swarm?**

Options are :

* *docker swarm initialize*
* *docker swarm start*
* *docker swarm join*
* *docker swarm init (Correct)*

**Answer :**docker swarm init

**Given the following Dockerfile below: FROM ubuntu ENTRYPOINT ["exec\_entry", "p1\_entry"] CMD exec-cmd p1\_cmd What is the command that gets executed when someone runs the image built using this Dockerfile?**

Options are :

* *exec\_entry p1\_entry /bin/sh -c " exec-cmd p1\_cmd " (Correct)*
* *exec\_entry p1\_entry exec\_cmd p1\_cmd*
* *exec\_entry p1\_entry*
* */bin/sh -c " exec-cmd p1\_cmd "*
* */bin/sh -c "exec\_entry p1\_entry" /bin/sh -c " exec-cmd p1\_cmd "*

**Answer :**exec\_entry p1\_entry /bin/sh -c " exec-cmd p1\_cmd "

**Which of the following is NOT true about dockerignore?**

Options are :

* *.dockerignore file can be used to exclude files and directories from docker context*
* *.dockerignore must be present in the root directory of the context*
* *.dockerignore can help in bringing down image size and speed up builds*
* *.dockerignore is available only with docker enterprise edition (Correct)*

**Answer :**.dockerignore is available only with docker enterprise edition

**Which of the following patterns would exclude all Python byte-code files from being copied during the Docker image creation process?**

Options are :

* *\*\*.pyc*
* *\*\*/\*.pyc (Correct)*
* *\*.pyc*
* */\*.pyc*

**Answer :**\*\*/\*.pyc

**Which of the following flags can be used with "docker build" command so that it never uses cached layer during the build steps.**

Options are :

* *-f*
* *--rm*
* *--no-cache (Correct)*
* *--compress*

**Answer :**--no-cache

**Which of the following is a valid flag to not use cache while doing a docker build?**

Options are :

* *--no-cache (Correct)*
* *--cache=false*
* *--no-cache=true (Correct)*
* *You cannot disable caching with docker build*

**Answer :**--no-cache --no-cache=true

**You have the following values in your Dockerfile ENV abc=hello ENV abc=bye def=$abc ENV ghi=$abc What is the correct output of command "echo $abc $def $ghi" run inside the container?**

Options are :

* *hello bye hello*
* *bye bye hello*
* *bye hello bye (Correct)*
* *hello hello bye*

**Answer :**bye hello bye

**Which of the following is true about Entrypoint of an Image.**

Options are :

* *It�s the script that anyone using the image must execute to initialize things inside container*
* *It�s a command that will be executed anytime a container is created using the image. (Correct)*
* *It is defined while creating the image and cannot be overridden*
* *Entrypoint must be a script*

**Answer :**It�s a command that will be executed anytime a container is created using the image.

**Given the following Dockerfile below: FROM alpine ENTRYPOINT ["exec\_entry", "p1\_entry"] CMD ["exec\_cmd", "p1\_cmd"] What is the command that gets executed when someone runs this image built using this Dockerfile?**

Options are :

* *exec\_entry p1\_entry exec\_cmd p1\_cmd (Correct)*
* */bin/sh -c "exec\_entry p1\_entry"*
* *exec\_cmd p1\_cmd*
* */bin/sh -c "exec\_entry p1\_entry exec\_cmd p1\_cmd"*

**Answer :**exec\_entry p1\_entry exec\_cmd p1\_cmd

**Which of the following statement is correct? Pick exactly two statements.**

Options are :

* *Image is a collection of immutable layers whereas container is a running instance of an image. (Correct)*
* *Container can exist without the image but image cannot exist without container*
* *Only one container can be spawned from a given image at a time*
* *If multiple containers are spawned from the same image then they all use the same copy of image in memory. (Correct)*

**Answer :**Image is a collection of immutable layers whereas container is a running instance of an image. If multiple containers are spawned from the same image then they all use the same copy of image in memory.

**Which of the following commands can be used to check Entrypoint and CMD of a given docker image?**

Options are :

* *docker image inspect (Correct)*
* *docker image ls*
* *docker info image*
* *docker image info*

**Answer :**docker image inspect

**Which of the following commands can be used to delete an existing image?**

Options are :

* *docker image delete*
* *docker rmi (Correct)*
* *docker rm*
* *docker rm image*

**Answer :**docker rmi

**You are in a directory containing a file named Dockerfile-app. You want to build a docker image using this "Dockerfile-app" file without renaming it to "Dockerfile". Which of the following answers is correct?**

Options are :

* *docker build -d Dockerfile-app*
* *docker build -f Dockerfile-app (Correct)*
* *docker build --dockerfile Dockerfile-app*
* *docker build --from-file Dockerfile-app*

**Answer :**docker build -f Dockerfile-app

**One fine morning while configuring docker host bob got stuck with a problem. Docker service just wouldn�t start. After checking logs Bob found the following error. When would an error like this arise? unable to configure the Docker daemon with file /etc/docker/daemon.json: the following directives are specified both as a flag and in the configuration file: hosts: (from flag: [unix:///var/run/docker.sock], from file: [tcp://127.0.0.1:23]**

Options are :

* *After configuring the same flag in both daemon.json and dockerd flags (Correct)*
* *After upgrading docker*
* *After running docker without systemd*
* *After killing dockerd process and restarting it manually*

**Answer :**After configuring the same flag in both daemon.json and dockerd flags

**Bob has configured his docker daemon to use syslog log driver by default, how can he run a container which uses json-file log driver?**

Options are :

* *By using "--log-opt json-file" along with docker run*
* *By using "--log-driver json-file" along with docker run (Correct)*
* *By using "--logger json-file" along with docker run*
* *Not possible*

**Answer :**By using "--log-driver json-file" along with docker run

**Bob did a fresh installation of docker on his new linux server. He hasn�t tinkered with anything and has just installed docker packages from official repository. He runs a new container with command "docker run -d nginx" , which logging driver will this container use?**

Options are :

* *syslog*
* *logentries*
* *json-file (Correct)*
* *journald*

**Answer :**json-file

**Bob wants to debug some issues happening with his docker daemon running on a linux system, he made some changes to his docker daemon using daemon.json file, now he wants docker to reload those changes but he can�t restart docker because he has something critical running on it, which of the following might help him achieve that?**

Options are :

* *sudo kill -9 $(pid of dockerd)*
* *sudo kill -1 $(pid of dockerd)*
* *sudo systemctl restart $(pid of dockerd)*
* *sudo kill -SIGHUP $(pidof dockerd) (Correct)*

**Answer :**sudo kill -SIGHUP $(pidof dockerd)

**The feature of limiting memory while running a container is provided by which of the following?**

Options are :

* *cgroups (Correct)*
* *namespaces*
* *systemd*
* *selinux*

**Answer :**cgroups

**Bob has username "bob" on his linux system. He did a fresh installation of Docker and he doesn't want to preface docker commands with sudo. To which linux user group should he add himself to achieve that?**

Options are :

* *root*
* *docker (Correct)*
* *admins*
* *owner*

**Answer :**docker

**What is docker command to see container logs?**

Options are :

* *docker dump-logs*
* *docker logs (Correct)*
* *docker get-logs*
* *docker fetch-logs*

**Answer :**docker logs

**Which of the following gives a web dashboard to manage docker cluster?**

Options are :

* *Docker swarm mode*
* *Docker UCP (Correct)*
* *Docker-compose*
* *DTR*

**Answer :**Docker UCP

**Fill in the blank: On Linux, Docker manipulates \_\_\_\_\_\_\_ rules to provide network isolation.**

Options are :

* *iptables (Correct)*
* *bpfilter*
* *nftables*
* *ufw*
* *conntrack*

**Answer :**iptables

**Network isolation by docker is provided by which one of the following linux kernel features?**

Options are :

* *cgroups*
* *namespace (Correct)*
* *ulimits*
* *file descriptors*

**Answer :**namespace

**Domain: Security**

**Which of the following is NOT true about a feature provided by namespace?**

Options are :

* *Namespaces left different sets of processes see different set of resources*
* *Processes running within a container cannot see processes running on host system*
* *Processes running within a container cannot see processes running in another container*
* *It can help in limiting the memory used by a container (Correct)*

**Answer :**It can help in limiting the memory used by a container

**Domain: Orchestration**

**What is the correct order a system administrator should follow for creating a backup policy for the Docker Enterprise Edition?**

Options are :

* *Swarm, ucp, dtr (Correct)*
* *Ucp, dtr, swarm*
* *Swarm, dtr, ucp*
* *Dtr, ucp, swram*

**Answer :**Swarm, ucp, dtr

**Domain: Image Creation, Management, and Registry**

**Which of the following statement is correct? Pick exactly two statements.**

Options are :

* *If multiple containers are spawned from the same image, then they all use the same copy of image in memory (Correct)*
* *Container can exist without the image but image cannot exist without container*
* *Image is a collection of immutable layers whereas container is a running instance of an image (Correct)*

**Answer :**If multiple containers are spawned from the same image, then they all use the same copy of image in memory Image is a collection of immutable layers whereas container is a running instance of an image

**Domain: Image Creation, Management, and Registry**

**You have the following values in your Dockerfile**

**ENV abc=hello**

**ENV abc=bye def=$abc**

**ENV ghi=$abc**

**What is the correct output of command �echo $abc $def $ghi� run inside the container?**

Options are :

* *Bye hello bye (Correct)*
* *Hello bye hello*
* *Hello hello bye*
* *Bye bye hello*

**Answer :**Bye hello bye

**Domain: Networking**

**Which of the following commands can be used to see IPv4 subnet of a network?**

Options are :

* *Docker info network*
* *Docker network info*
* *Docket network ls*
* *Docker network inspect (Correct)*

**Answer :**Docker network inspect

**Domain: Installation and Configuration**

**Bob has configured his docker daemon to use syslog log driver by default, how can he run a container which uses json-file log driver?**

Options are :

* *No possible*
* *By using "--log-driver json-file"along with docker run (Correct)*
* *By using "--log-opt json-file"along with docker run*
* *By using "--logger json-file"along with docker run*

**Answer :**By using "--log-driver json-file"along with docker run

**Domain: Image Creation, Management, and Registry**

**Which of the following patterns would exclude all Python byte-code files from being copied during the Docker image creation process?**

Options are :

* *\*\* / .pyc (Correct)*
* *.pyc*
* *\*\* .pyc*
* */\* .pyc*

**Answer :**\*\* / .pyc

**Domain: Installation and Configuration**

**Bob has username �bob� on his linux system. He did a fresh installation of Docker and he doesn't want to preface docker commands with sudo. To which linux user group should he add himself to achieve that?**

Options are :

* *Owner*
* *Docker (Correct)*
* *Admins*
* *Root*

**Answer :**Docker

**Domain: Networking**

**By default, all containers on the same Docker network (multi-host swarm scope or local scope) have connectivity with each other on \_\_\_\_\_ ports.**

Options are :

* *None*
* *All (Correct)*
* *Some*
* *Defined*

**Answer :**All

**Domain: Orchestration**

**You are running UCP service on a swarm with 3 managers and 2 workers. You need to schedule a backup policy for your UCP service. How many nodes you need to fully back up this service?**

Options are :

* *1 (Correct)*
* *2*
* *5*
* *3*

**Answer :**1

**Domain: Orchestration**

**Which of the following statements is NOT TRUE about replicated service in docker?**

Options are :

* *For replicated services you can specify number of replica tasks*
* *If you don't specify a mode, the service defaults to replicated*
* *A service running in a replicated mode may not run in all nodes*
* *A replicated service, the scheduler places one task on each available that meets the service's placement constraints and resource requirements (Correct)*

**Answer :**A replicated service, the scheduler places one task on each available that meets the service's placement constraints and resource requirements

**Domain: Orchestration**

**You created a Docker swarm cluster using �docker swarm init� command. After creating the swarm cluster you got a command using which you could add a worker to your cluster. But you have lost that command and now you want to add new workers to your cluster. How would you do that?**

Options are :

* *Docker swarm init-token manager*
* *Docker swarm join-token worker (Correct)*
* *Docker swarm join-token manager*
* *Docker swarm init-token worker*

**Answer :**Docker swarm join-token worker

**Domain: Installation and Configuration**

**Which of the following gives a web dashboard to manage docker cluster?**

Options are :

* *Docker swarm mode*
* *Docker UCP (Correct)*
* *Docker-compose*
* *DTR*

**Answer :**Docker UCP

**Domain: Orchestration**

**A global service is a service that runs \_\_\_\_task/tasks on every node that meet the placement and resource constraints**

Options are :

* *One (Correct)*
* *More than one*
* *Many*
* *None*

**Answer :**One

**Domain: Orchestration**

**You created a docker swarm cluster using �docker swarm init� command. After creating the swarm cluster you got a command using which you could add a worker to your cluster. But you have lost that command and now you want to add new workers to your cluster. How would you do that?**

Options are :

* *Docker swarm join-token worker (Correct)*
* *Docker swarm init-token manager*
* *Docker swarm join-token manager*
* *Docker swarm init-token worker*

**Answer :**Docker swarm join-token worker

**Domain: Networking**

**Overlay networks cannot be created if Docker engine is not a manager node in Docker swarm?**

Options are :

* *True (Correct)*
* *False*

**Answer :**True

**Domain: Image Creation, Management, and Registry**

**Given the following Dockerfile below:**

**FROM alpine**

**ENTRYPOINT ["exec\_entry", "p1\_entry"]**

**CMD ["exec\_cmd", "p1\_cmd"]**

**What is the command that gets executed when someone runs this image built using this Dockerfile?**

Options are :

* */bin/sh-c "exec\_entry p1\_entry exec\_cmd p1\_cmd"*
* */bin/sh-c "exec\_entry p1\_entry"*
* *exec\_entry p1\_entry exec\_cmd p1\_cmd (Correct)*
* *exec\_cmd p1\_cmd*

**Answer :**exec\_entry p1\_entry exec\_cmd p1\_cmd

**Domain: Networking**

**Fill in the blank:**

**On Linux, Docker manipulates \_\_\_\_\_\_\_ rules to provide network isolation.**

Options are :

* *Iptables (Correct)*
* *Nftables*
* *UFW*
* *Conntrack*
* *Bpfilter*

**Answer :**Iptables

**Domain: Security**

**Docker Content Trust provides the ability to use \_\_\_\_\_\_\_\_\_\_ for verifying integrity and the publisher of all the data received from a registry over any channel.**

Options are :

* *A container*
* *Digital signatures (Correct)*
* *Symmetric key encryption*
* *End to end encryption*

**Answer :**Digital signatures

**Domain: Storage and Volumes**

**Which of the following is NOT true about secrets?**

Options are :

* *Secrets are mounted in containers filesystem directly*
* *Secrets can be used for storing username and password*
* *Secrets are available at swarm services and standalone containers (Correct)*
* *Secrets are encrypted during transit and also at rest*

**Answer :**Secrets are available at swarm services and standalone containers

**Domain: Image Creation, Management, and Registry**

**Which of the following statement is correct? Pick exactly two statements**

Options are :

* *Only one container can be spawned from a given image at a time*
* *Container can exist without the image but image cannot exist without container*
* *If multiple containers are spawned from the same image, then they all use the same copy of image in memory (Correct)*
* *Image is a collection of immutable layers whereas container is a running instance of an image (Correct)*

**Answer :**If multiple containers are spawned from the same image, then they all use the same copy of image in memory Image is a collection of immutable layers whereas container is a running instance of an image

**Domain: Networking**

**Network isolation by docker is provided by which one of the following linux kernel features?**

Options are :

* *Ulimits*
* *Namespace (Correct)*
* *Cgroups*
* *File descriptors*

**Answer :**Namespace

**Domain: Image Creation, Management, and Registry**

**Which of the following commands can take a tar file as an argument and add the extracted content into the image automatically?**

Options are :

* *none of these*
* *ADD and COPY*
* *COPY*
* *ADD (Correct)*

**Answer :**ADD

**Domain: Security**

**Grants in UCP are made up of which of the following?**

Options are :

* *Nodes, role and containers*
* *Subject, node and containers*
* *Subject, role and resource set (Correct)*
* *Subject, role and containers*

**Answer :**Subject, role and resource set

**Domain: Networking**

**You created a docker swarm with default address pool as this: 10.0.0.0/16**

**Now when you run the following command to create an overlay network - what IP subnet will be allocated to this overlay network?**

**NOTE: X can be any value starting from 0 to 255**

**COMMAND: Docker network create -d overlay --attachable my-attachable-overlay**

Options are :

* *10.2.X.0/24*
* *10.0.X.0/24 (Correct)*
* *10.3.X.0/24*
* *10.1.X.0/24*

**Answer :**10.0.X.0/24

**Domain: Storage and Volumes**

**Which of the following lvm mode should a production host using the devicemapper as a storage driver use?**

Options are :

* *Loop-lvm*
* *ZFS*
* *Direct-lvm (Correct)*
* *Overlay*

**Answer :**Direct-lvm

**Domain: Orchestration**

**You are running a service called 'webserver'. You need to increase the number of replicas of that service to 5. Which of the following commands would achieve this?**

Options are :

* *Docker service --replicas-5 webserver*
* *Docker service scale webserver-5 (Correct)*
* *Docker swarm --replicas-5 webserver*
* *Docker swarm scale webserver-5*

**Answer :**Docker service scale webserver-5

**Domain: Image Creation, Management, and Registry**

**Which of the following flags can be used with �docker build� command so that it never uses cached layer during the build steps**

Options are :

* *-f*
* *-compress*
* *-no-cache (Correct)*
* *-rm*

**Answer :**-no-cache

**Domain: Installation and Configuration**

**What is docker command to see container logs?**

Options are :

* *Docker logs (Correct)*
* *Docker dump-logs*
* *Docker get-logs*
* *Docker fetch-logs*

**Answer :**Docker logs

**Domain: Image Creation, Management, and Registry**

**Which of the following is NOT true about dockerignore?**

Options are :

* *.Dockerignore must be present in the root directory of the context*
* *.Dockerignore file can be used to exclude files and directories from docker context*
* *.Dockerignore is available only with docker enterprise edition (Correct)*
* *.Dockerignore can help in bringing down image size and speed up builds*

**Answer :**.Dockerignore is available only with docker enterprise edition

**What command can you use to remove dangling docker images?**

Options are :

* *docker image prune (Correct)*
* *docker image remove*
* *docker rm*
* *docker rmi*

**Answer :**docker image prune

**Which of the following directive can primarily be used for defining default arguments for an executing container?**

Options are :

* *CMD (Correct)*
* *LABEL*
* *RUN*
* *ENTRYPOINT*

**Answer :**CMD

**Docker reuses intermediate images for accelerating the docker build process.**

Options are :

* *TRUE (Correct)*
* *FALSE*

**Answer :**TRUE

**When changes made to a Docker image are ready to be published, which of the following commands would make a new image available, called 'httpd:v2'?**

Options are :

* *docker tag httpd:v2 httpd:latest*
* *docker checkin httpd:v2*
* *docker tag httpd:latest httpd:v2 (Correct)*
* *docker tag httpd:v2 httpd:latest*

**Answer :**docker tag httpd:latest httpd:v2

**What is the purpose of the docker image prune command?**

Options are :

* *Remove one or more images*
* *Show the history of an image*
* *Remove unused images (Correct)*
* *Display detailed information on one or more images*

**Answer :**Remove unused images

**A docker image is built up from a series of layers and each layer represents an instruction in the image's Dockerfile. True or false?**

Options are :

* *TRUE (Correct)*
* *FALSE*

**Answer :**TRUE

**Describe what the EXPOSE instruction does.**

Options are :

* *It automatically publishes ports when running a container.*
* *It makes a container's port accessible externally.*
* *It causes the container to listen on a port.*
* *It documents ports intended for publishing at the time of running a container. (Correct)*

**Answer :**It documents ports intended for publishing at the time of running a container.

**What is the purpose of multi-stage builds?**

Options are :

* *Faster image builds by allowing parallel execution of Docker builds*
* *Reduce the size of your final image since intermediate artifacts are left behind, and not saved in the final image. (Correct)*
* *Better caching when building Docker images*
* *Better logical separation of Dockerfile instructions for better readability*

**Answer :**Reduce the size of your final image since intermediate artifacts are left behind, and not saved in the final image.

**Which of the Dockerfile directive executes any command in a new layer on top of the current image and commits the results?**

Options are :

* *RUN (Correct)*
* *FROM*
* *ONBUILD*
* *CMD*

**Answer :**RUN

**Which is one way of directly transferring a docker image from one docker host to another?**

Options are :

* *Use docker save to save the image as a TAR file and copy it over to the target host. Then use 'docker load' to un-TAR the image back as a docker image. (Correct)*
* *Use docker push to transfer the image to the IP address of the target host.*
* *Use docker commit to save the image outside of the Docker filesystem. Then transfer the file over to the target host and use 'docker start' to start the container again.*
* *There is no way of directly transferring Docker images between hosts. A Docker Registry must be used as an intermediary.*

**Answer :**Use docker save to save the image as a TAR file and copy it over to the target host. Then use 'docker load' to un-TAR the image back as a docker image.

**It is good practice to have more than one CMD instruction in the Docker file. True or false?**

Options are :

* *TRUE*
* *FALSE (Correct)*

**Answer :**FALSE

**Which of the following Dockerfile instruction would set up the base image that can serve as a starting point for establishing a new image?**

Options are :

* *START*
* *BASE*
* *FROM (Correct)*
* *ARG*

**Answer :**FROM

**Both RUN and CMD instructions can be used interchangeably in the Dockerfile as they do the same thing.**

Options are :

* *TRUE*
* *FALSE (Correct)*

**Answer :**FALSE

**Which docker command can be used to pull an image or a repository from a registry?**

Options are :

* *docker checkout*
* *docker build*
* *docker deploy*
* *docker pull (Correct)*

**Answer :**docker pull

**Which command needs to be executed to sign an image before pushing it to a repository?**

Options are :

* *export SIGN\_DOCKER\_IMAGE=1*
* *export TRUST\_DOCKER\_IMAGE=1*
* *export TRUST\_DOCKER\_CONTENT=1*
* *export DOCKER\_CONTENT\_TRUST=1 (Correct)*

**Answer :**export DOCKER\_CONTENT\_TRUST=1

**Which of the following Dockerfile instructions will configure a starting point for the executable container?**

Options are :

* *ENTRYPOINT (Correct)*
* *EXEC*
* *ENV*
* *CMD*

**Answer :**ENTRYPOINT

**Is there any difference between the ADD and COPY instructions? (Choose two)**

Options are :

* *The ADD directive can pull a file from an external URL. (Correct)*
* *The ADD directive can extract an archive into the image. (Correct)*
* *The ADD directive can transfer a specific file between build stages.*
* *The ADD directive will remove the file from the source and add it to the destination.*

**Answer :**The ADD directive can pull a file from an external URL. The ADD directive can extract an archive into the image.

**What represents a Dockerfile?**

Options are :

* *An archive with all necessary dependencies to install an app.*
* *A sequential set of instructions to build a docker image. (Correct)*
* *A "readme" file for docker*
* *Executable file to install docker*

**Answer :**A sequential set of instructions to build a docker image.

**Describe what the following instruction does when added to a Dockerfile.**

**HEALTCHECK CMD curl localhost:8080**

Options are :

* *Defines the health check endpoint on the local host interface for containers to monitor the health of the docker engine.*
* *It adds a status to detect if a containerized application is running.*
* *Defines the health check endpoint on the localhost interface for external monitoring tools to monitor the health of the docker engine.*
* *It adds a health status in addition to its normal status to detect cases such as a web server that is stuck in an infinite loop, even though the server process is still running. (Correct)*

**Answer :**It adds a health status in addition to its normal status to detect cases such as a web server that is stuck in an infinite loop, even though the server process is still running.

**Which of the following components is not managed by Docker Hub?**

Options are :

* *organizations*
* *containers (Correct)*
* *repositories*
* *docker images*

**Answer :**containers

**Which directive sets the working directory for any RUN, CMD, ENTRYPOINT, COPY and ADD instructions that follow it in the Dockerfile?**

Options are :

* *MKDIR*
* *WORKDIR (Correct)*
* *CD*
* *PWD*

**Answer :**WORKDIR

**Which of the following commands is the correct way to tag an image?**

Options are :

* *docker tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG] (Correct)*
* *docker build tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]*
* *docker tag image SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]*
* *docker tag TARGET\_IMAGE[:TAG] SOURCE\_IMAGE[:TAG]*

**Answer :**docker tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]

**Which docker command will display all top-level images available for containers to be instantiated from?**

Options are :

* *docker ps*
* *docker list all*
* *docker list*
* *docker images (Correct)*

**Answer :**docker images

**FROM keyword can appear multiple times within the Dockerfile?**

Options are :

* *TRUE (Correct)*
* *FALSE*

**Answer :**TRUE

**You want to search for a Ubuntu official Docker Image with a minimum rating of 30 stars. Which of the following commands will provide you the correct results?**

Options are :

* *docker search --filter is-official=true, stars=30 ubuntu*
* *docker search --filter is-official=true --filter stars=30 ubuntu (Correct)*
* *docker search --filter is-official=True --filter stars=30 ubuntu*
* *docker search --filter is-official --filer stars=30 ubuntu*

**Answer :**docker search --filter is-official=true --filter stars=30 ubuntu

**Which of the following is not how you create an efficient image via a Dockerfile?**

Options are :

* *Avoid installing unnecessary packages*
* *Use multi-stage builds*
* *Combine multiple applications into a single container (Correct)*
* *Sort multi-line arguments*

**Answer :**Combine multiple applications into a single container

**It is good practice to use the root directory, /, as the PATH for building the docker image. True or False?**

Options are :

* *FALSE (Correct)*
* *TRUE*

**Answer :**FALSE

**Which statement is true about building docker images?**

Options are :

* *Every Dockerfile can have only one FROM directive.*
* *An image has state and it can change.*
* *Every layer of the image is re-built every time docker build is executed.*
* *Only layers that have changed since the last build (and any following layers) are built. (Correct)*

**Answer :**Only layers that have changed since the last build (and any following layers) are built.

**Can a Dockerfile start with any command?**

Options are :

* *FALSE (Correct)*
* *TRUE*

**Answer :**FALSE

**Which of the following docker component can be described as "a runtime instance of an image"?**

Options are :

* *Container (Correct)*
* *Node*
* *Image*
* *Docker File*

**Answer :**Container

**Which of the below statements is false about WORKDIR instruction?**

Options are :

* *It affects only the build and does not impact containers that run from the image. (Correct)*
* *The WORKDIR instruction can resolve environment variables previously set using ENV.*
* *It can use both absolute and relative paths.*
* *The WORKDIR instruction can be used multiple times in a Dockerfile.*

**Answer :**It affects only the build and does not impact containers that run from the image.

**Which of the following steps should you perform to sign images in a way that UCP trusts them? (select all that apply)**

Options are :

* *Configure Notary client (Correct)*
* *Initialize trust metadata for the repository (Correct)*
* *Delegate signing to the keys in your UCP client bundle (Correct)*
* *Approve image sign on UCP*

**Answer :**Configure Notary client Initialize trust metadata for the repository Delegate signing to the keys in your UCP client bundle

**What happens when the RUN instruction is executed?**

Options are :

* *The RUN directive sets the default command for the image.*
* *The RUN directive executes a command on the host when building an image.*
* *The RUN directive automatically runs a command when a new container gets created.*
* *The RUN directive executes a command and commits the resulting changed files as a new layer in the image. (Correct)*

**Answer :**The RUN directive executes a command and commits the resulting changed files as a new layer in the image.

**Following the principle of least privilege, which of the following methods can be used to securely grant access to the specific user to communicate to a Docker engine? (Choose two.)**

Options are :

* *Add the user to the 'docker' group on the server or specify the group with the '--group' Docker daemon option.*
* *Give the user root access to the server to allow them to run Docker commands as root.*
* *Utilize the '--host 0.0.0.0:2375' option to the Docker daemon to listen on port 2375 over TCP on all interfaces.*
* *Utilize the '--host 127.0.0.1:2375' option to the Docker daemon to listen on port 2375 over TCP on localhost*
* *Utilize openssl to create TLS client and server certificates, configuring the Docker engine to use with mutual TLS over TCP.*

**Answer :**Add the user to the 'docker' group on the server or specify the group with the '--group' Docker daemon option. Utilize openssl to create TLS client and server certificates, configuring the Docker engine to use with mutual TLS over TCP.

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**Which of the following is the correct command to tag an image?**

Options are :

* *docker build tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]*
* *docker tag TARGET\_IMAGE[:TAG] SOURCE\_IMAGE[:TAG]*
* *docker tag image SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]*
* *docker tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]*

**Answer :**docker tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]

**What behavior is expected when a service is created with the following command: 'docker service create --publish 8080:80 nginx'?**

Options are :

* *Only a single node in the cluster will listen on port 80 and forward to port 8080 in the container.*
* *All nodes in the cluster will listen on port 8080 and forward to port 80 in the container.*
* *Only a single node in the cluster will listen on port 8080 and forward to port 80 in the container.*
* *All nodes in the cluster will listen on port 80 and forward to port 8080 in the container.*

**Answer :**All nodes in the cluster will listen on port 8080 and forward to port 80 in the container.

**Which flag for a service would allow a container to consume more than 2 GB of memory only when there is no memory contention but would also prevent a container from consuming more than 4GB of memory, in any case?**

Options are :

* *--limit-memory 4GB --reserve-memory 2GB*
* *--memory-swap 4GB --limit-memory 2GB*
* *--memory-swap 2GB --limit-memory 4GB*
* *--limit-memory 2GB --reserve-memory 4GB*

**Answer :**--limit-memory 4GB --reserve-memory 2GB

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**What is the purpose of a client bundle in the Universal Control Plane?**

Options are :

* *Provide a new user instructions for how to login to the Universal Control Plane*
* *Authenticate a user using client certificates to the Universal Control Plane*
* *Provide a user with a Docker client binary compatible with the Universal Control Plane*
* *Group multiple users in a team in the Universal Control Plane*

**Answer :**Authenticate a user using client certificates to the Universal Control Plane

**A service 'wordpress' is running using a password string to connect to a non-Dockerized database service. The password string is passed into the 'wordpress' service as a Docker secret. Per security policy, the password on the database was changed. Identity the correct sequence of steps to rotate the secret from the old password to the new password.**

Options are :

* *Create a new docker secret with the new password. Trigger a rolling secret update by using the 'docker secret update' command*
* *Create a new docker secret with a new password. Trigger a rolling update of the "wordpress" service, by using "-- secret-rm" & "--secret-add" to remove the old secret and add the updated secret.*
* *Create a new docker secret with the new password. Remove the existing service using 'docker service rm'. Start a new service with the new secret using "--secret="*
* *Trigger an update to the service by using 'docker service update --secret='*

**Answer :**Create a new docker secret with a new password. Trigger a rolling update of the "wordpress" service, by using "-- secret-rm" & "--secret-add" to remove the old secret and add the updated secret.

**If installing Docker using devicemapper for storage with the Intent to run production workloads, how should devicemapper be configured?**

Options are :

* *direct-lvm*
* *aufs-lvm*
* *loop-lvm*
* *overlay-lvm*

**Answer :**direct-lvm

[Docker Certified Associate (DCA) Practice Exams Set 10](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-10)

**A user is having problems running Docker. Which of the following will start Docker in debug mode?**

Options are :

* *Start the 'dockerd' process manually with the '--raw-logs' flag set to debug*
* *Set the debug key to true in the 'daemon.json' file.*
* *Start the 'dockerd' process manually with the '--logging' flag set to debug*
* *Set the logging key to debug in the 'daemon.json' file.*

**Answer :**Set the debug key to true in the 'daemon.json' file.

**Which of the following is true about overlay networks?**

Options are :

* *Overlay networks are first created on the manager nodes. Then they are created on the worker nodes once a task is scheduled on the specific worker node.*
* *Overlay networks are created only on the manager node that you created the overlay networking on.*
* *Overlay networks are created on all cluster nodes when you create the overlay network.*
* *Overlay networks are only created on the manager nodes.*

**Answer :**Overlay networks are first created on the manager nodes. Then they are created on the worker nodes once a task is scheduled on the specific worker node.

**Which of the following is required to install Docker EE from a package repository?**

Options are :

* *License key obtained from Docker Hub*
* *Repository URL obtained from Docker Hub*
* *Repository URL obtained from Docker Store*
* *License key obtained from Docker Store*

**Answer :**Repository URL obtained from Docker Store

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**What is the docker command to pull an image or a repository from a registry?**

Options are :

* *docker deploy*
* *docker pull*
* *docker checkout*
* *docker build*

**Answer :**docker pull

**Which one of the following commands will result in the volume being removed automatically once the container has exited?**

Options are :

* *'docker run --read-only -v /foo busybox'*
* *'docker run --del -v /foo busybox'*
* *'docker run --remove -v /foo busybox'*
* *'docker run --rm -v /foo busybox'*

**Answer :**'docker run --rm -v /foo busybox'

**What is the docker command to remove one or more images?**

Options are :

* *docker image delete*
* *docker delete*
* *docker image rm*
* *docker remove*

**Answer :**docker image rm

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**Which of the following is NOT how to create an efficient image via a Dockerfile?**

Options are :

* *Avoid installing unnecessary packages*
* *Start with an appropriate base image*
* *Combine multiple applications into a single container*
* *Use multi-stage builds*

**Answer :**Combine multiple applications into a single container

**What is the purpose of Docker Content Trust?**

Options are :

* *Signing and verification of image tags*
* *Indicating an image on Docker Hub is an official image*
* *Enabling mutual TLS between the Docker client and server*
* *Docker registry TLS verification and encryption*

**Answer :**Signing and verification of image tags

**What is the docker command for displaying layers of a Docker image?**

Options are :

* *docker image layers*
* *docker layers*
* *docker info*
* *docker history*

**Answer :**docker history

[Docker Certified Associate (DCA) Practice Exams Set 2](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-2)

**What is used by the kernel to isolate resources when running Docker containers?**

Options are :

* *Volumes*
* *Overlay networks*
* *Control groups*
* *Namespaces*

**Answer :**Namespaces

**What is one way of directly transferring a Docker Image from one Docker host in another?**

Options are :

* *There is no way of directly transferring Docker images between hosts. A Docker Registry must be used ad an intermediary.*
* *'docker save' the image to save it as TAR file and copy it over to the target host. Then use 'docker load' to un-TAR the image back as a Docker image.*
* *'docker commit' to save the image outside of the Docker filesystem. Then transfer the file over to the target host and 'docker start' to start the container again.*
* *'docker push' the image to the IP address of the target host.*

**Answer :**'docker save' the image to save it as TAR file and copy it over to the target host. Then use 'docker load' to un-TAR the image back as a Docker image.

**Which statement is true?**

Options are :

* *ENTRYPOINT cannot be overriden in the "docker container run" command*
* *CMD is used to run the software is the image along with any arguments*
* *ENTRYPOINT cannot be used in conjuction with CMD*
* *CMD shell format uses this form ["param", param", "param"]*

**Answer :**CMD shell format uses this form ["param", param", "param"]

[Docker Certified Associate (DCA) Practice Exams Set 2](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-2)

**What Dockerfile option LABEL does?**

Options are :

* *Tells Docker how to test a container to check that it is still working.*
* *Label a container that will run as an executable*
* *Adds metadata to an image*
* *Provide defaults for an executing container*

**Answer :**Adds metadata to an image

**What is the difference between the ADD and COPY dockerfile instructions? (choosen 2)**

Options are :

* *ADD supports compression format handling while COPY does not.*
* *COPY supports regular expression handling while ADD does not.*
* *COPY supports compression format handling while ADD does not.*
* *ADD supports regular expression handling while COPY does not.*
* *ADD support remote URL handling while COPY does not.*

**Answer :**ADD supports compression format handling while COPY does not. ADD support remote URL handling while COPY does not.

**Which of the following in the docker command to enable autolock on an existing swarm cluster?**

Options are :

* *docker swarm autolock*
* *docker swarm update --autolock-swarm=true*
* *docker swarm --autolock=true*
* *docker swarm update --autolock=true*

**Answer :**docker swarm update --autolock=true

[Docker Certified Associate (DCA) Practice Exams Set 16](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-16)

**Which of the following commands starts a Redis container and configures it to always restart unless it is explicitly stopped or Docker is restarted?**

Options are :

* *'docker run -d --failure omit-stopped redis'*
* *'docker run -d --restart omit-stopped redis'*
* *'docker run -d --restart-policy unless-stopped redis'*
* *'docker run -d --restart unless-stopped redis'*

**Answer :**'docker run -d --restart unless-stopped redis'

**Which of these swarm manager configurations will cause the cluster to be in a lost quorum state?**

Options are :

* *1 manager of which 1 is healthy.*
* *3 managers of which 2 are healthy.*
* *4 managers of which 2 are healthy.*
* *5 managers of which 3 are healthy.*

**Answer :**5 managers of which 3 are healthy.

**A container named "analytics" that stores results in a volume called "data" was created. docker run -d --name=analytics -v data:/data webapp. How are the results accessed in "data" with another container called "dbapp"?**

Options are :

* *docker run -d --name=reports --volume-from=analytics dbapp*
* *docker run -d --name=reports --volume=webapp dbapp*
* *docker run -d --name=reports --mount=webapp dbapp*
* *docker run -d --name=reports --volume=data dbapp*

**Answer :**docker run -d --name=reports --volume-from=analytics dbapp

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Which of the following is the correct command to store an image to a registry?**

Options are :

* *docker upload [OPTIONS] NAME[:TAG]*
* *docker store [OPTIONS] NAME[:TAG]*
* *docker push [OPTIONS] NAME[:TAG]*
* *docker commit [OPTIONS] NAME[:TAG]*

**Answer :**docker push [OPTIONS] NAME[:TAG]

**Which statement is true about DTR garbage collection?**

Options are :

* *Garbage collection removes DTR images that are older than a configurable of days.*
* *Garbage collection removes unused volumes from cluster nodes*
* *Garbage collection removes unreferenced image layers from DTR's backend storage.*
* *Garbage collection removes exited containers from cluster nodes.*

**Answer :**Garbage collection removes unreferenced image layers from DTR's backend storage.

**Which of the following statements is incorrect?**

Options are :

* *When a container is deleted, the writable layer is persisted.*
* *The column 'virtual size' of docker ps -s output shows the amount of data used for the read-only image data used by the container plus the container's writable layer 'size'.*
* *Copy-on-write is a Docker strategy of sharing and copying files for maximum efficiency.*
* *The column 'size' of docker ps -s output shows the amount of data that is used for the writable layer of each container.*

**Answer :**When a container is deleted, the writable layer is persisted.

[Docker and Containers: Commands Set 3](https://chercher.tech/docker-certification/docker-and-containers-commands-set-3)

**When seven managers are in a swarm cluster, how would they be distributed across three datacenters or availability zones?**

Options are :

* *3/2/2*
* *4/2/1*
* *5/1/1*
* *3/3/1*

**Answer :**3/2/2

**What is the difference between a resource limit and a resource reservation when scheduling services?**

Options are :

* *A resource limit is used to find a host with adequate resources for scheduling a hard limit for your service, while a reservation is hard limit for your service.*
* *A resource limit is hard limit for your service, while a reservation is used to find a host with adequate resources for scheduling.*
* *A resource limit and a resource reservation can be used interchangeably*
* *A resource limit is soft limit for your service, while a reservation is hard limit and the docker engine will do its best to keep your service at the limit.*

**Answer :**A resource limit is hard limit for your service, while a reservation is used to find a host with adequate resources for scheduling.

**In Docker Trusted Registry, how would a user prevent an image, for example 'nginx:latest' from being overwritten by another user with push access to the repository?**

Options are :

* *Tag the image with 'nginx:immutable'*
* *Remove push access from all other users.*
* *Use the DTR web UI to make the tag immutable.*
* *Keep a backup copy of the image on another repository.*

**Answer :**Use the DTR web UI to make the tag immutable.

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**A docker service 'web' is running with a scale factor of 1 (replicas = 1). Bob intends to use the command 'docker service update --replicas=3 web'. Alice intends to use the command 'docker service scale web=3'. How do the outcomes of these two commands differ?**

Options are :

* *Bob's command only updates the service definition, but no new replicas are started. Alice's command results in the actual scaling up of the 'web' service.*
* *Both Bob's and Alice's commands result in exactly the same outcome, which is 3 instances of the 'web' service.*
* *Bob's command results in an error. Alice's command updates the number of replicas of the 'web' service to 3.*
* *Bob's command updates the number of replicas of the 'web' service to 3. Alice's command results in an error.*

**Answer :**Bob's command updates the number of replicas of the 'web' service to 3. Alice's command results in an error.

**Which option the Dockerfile will appear in the end ?**

**FROM alpine:latest**

**WORKDIR /a**

**WORKDIR b**

**WORKDIR c**

**CMD [ '/bin/bash', 'pwd' ]**

Options are :

* */a*
* *b*
* *c*
* */a/b/c*

**Answer :**/a/b/c

**Which constraint role you use if you want to restrict a service to be scheduled in a manager in the Swarm cluster?**

Options are :

* *swarm.role != worker*
* *node.role == manager*
* *swarm.role == manager*
* *node.role != manager*

**Answer :**node.role == manager

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**A user is having problems running Docker. Which of the following will start Docker in debug mode?**

Options are :

* *Set the logging key to debug in the 'daemon.json' file.*
* *Start the 'dockerd' process manually with the '--raw-logs' flag set to debug*
* *Set the debug key to true in the 'daemon.json' file.*
* *Start the 'dockerd' process manually with the '--logging' flag set to debug*

**Answer :**Set the debug key to true in the 'daemon.json' file.

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**Which statement is true?**

Options are :

* *ENTRYPOINT cannot be overriden in the "docker container run" command*
* *CMD is used to run the software is the image along with any arguments*
* *ENTRYPOINT cannot be used in conjuction with CMD*
* *CMD shell format uses this form ["param", param", "param"]*

**Answer :**CMD shell format uses this form ["param", param", "param"]

**What Dockerfile option LABEL does?**

Options are :

* *Tells Docker how to test a container to check that it is still working.*
* *Label a container that will run as an executable*
* *Provide defaults for an executing container*
* *Adds metadata to an image*

**Answer :**Adds metadata to an image

**Which of the following constitutes a production-ready devicemapper configuration for the docker engine?**

Options are :

* *Nothing, devicemapper comes ready for production usage out of the box.*
* *Utilize the '--storage-opt dm.directlvm\_device' Docker daemon option, specifying a block device.*
* *Create a volume group in devicemapper and utilize the '--dm.thinpooldev' Docker daemon option, specifying the volume group.*
* *Format a partition with the xfs and mount it at '/var/lib/docker'*

**Answer :**Utilize the '--storage-opt dm.directlvm\_device' Docker daemon option, specifying a block device.

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**Which of the Dockerfile options executes any commands in a new layer on top of the current image and commit the results?**

Options are :

* *RUN*
* *FROM*
* *ONBUILD*
* *CMD*

**Answer :**RUN

**Which of the following is NOT backed up when performing a Docker Trusted backup operation?**

Options are :

* *Repository metadata*
* *DTR configurations*
* *Image blobs*
* *Access control to repos and images*

**Answer :**Image blobs

**Which of the following is NOT a valid way to tag a Docker image?**

Options are :

* *Tag an image referenced by user ID*
* *Tag an image referenced by Name*
* *Tag an image referenced by image ID*
* *Tag an image referenced by Name and Tag*

**Answer :**Tag an image referenced by user ID

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**Which of the following statement is true about secrets?**

Options are :

* *Secrets can be created from any node in the cluster*
* *Secrets are stored unencrypted on manager nodes*
* *Secrets can be modified after they are created*
* *Secrets can be created using standard input (STDIN) and a file*

**Answer :**Secrets can be created using standard input (STDIN) and a file

**When seven managers are in a swarm cluster, how would they be distributed across three datacenters or availability zones?**

Options are :

* *36983*
* *37317*
* *36953*
* *37012*

**Answer :**37317

**What behavior is expected when a service is created with the following command: 'docker service create --publish 8080:80 nginx'?**

Options are :

* *All nodes in the cluster will listen on port 8080 and forward to port 80 in the container.*
* *Only a single node in the cluster will listen on port 8080 and forward to port 80 in the container.*
* *Only a single node in the cluster will listen on port 80 and forward to port 8080 in the container.*
* *All nodes in the cluster will listen on port 80 and forward to port 8080 in the container.*

**Answer :**All nodes in the cluster will listen on port 8080 and forward to port 80 in the container.

[Docker and Containers: Commands Set 4](https://chercher.tech/docker-certification/docker-and-containers-commands-set-4)

**Which of the following in the docker command to enable autolock on an existing swarm cluster?**

Options are :

* *# docker swarm update --autolock-swarm=true*
* *# docker swarm autolock*
* *# docker swarm update --autolock=true*
* *# docker swarm --autolock=true*

**Answer :**# docker swarm update --autolock=true

**What Dockerfile instructions create new layers on the top of a image?**

Options are :

* *RUN (Correct)*
* *COPY (Correct)*
* *ADD (Correct)*
* *CMD*

**Answer :**RUN COPY ADD

**How can you list exited containers ? ( Select all that apply )**

Options are :

* *docker container list exited*
* *docker ps -f 'Exited'*
* *docker container ls -f 'status=exited' (Correct)*
* *docker ps -a - grep Exited (Correct)*

**Answer :**docker container ls -f 'status=exited' docker ps -a - grep Exited

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**Which type of service runs one task on every node?**

Options are :

* *universal*
* *replicated*
* *agent*
* *global (Correct)*

**Answer :**global

**What is the purpose of the Dockerfile option 'LABEL' ?**

Options are :

* *Set Docker healthchecks to test a container .*
* *Define an ID to a container that will run as an executable*
* *Adds metadata to an image (Correct)*
* *Provide default variables for an executing container*

**Answer :**Adds metadata to an image

**What are valid forms to tag an image ?**

Options are :

* *Tag an image referenced by User ID*
* *Tag an image referenced by Name and Tag (Correct)*
* *Tag an image referenced by Name (Correct)*
* *Tag an image for a private repository (Correct)*
* *Tag an image referenced by ID (Correct)*

**Answer :**Tag an image referenced by Name and Tag Tag an image referenced by Name Tag an image for a private repository Tag an image referenced by ID

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**What command is used to download a particular image, or set of images ?**

Options are :

* *docker image download<image:digest< li="" style="box-sizing: inherit;"></image:digest<>*
* *docker image save*
* *docker pull (Correct)*
* *docker download*

**Answer :**docker pull

**Which of the following is incorrect about overlay networks ?**

Options are :

* *Overlay networks are only created on the manager nodes. (Correct)*
* *Docker overlay networking uses VXLAN tunnels to create virtual Layer 2 overlay networks.*
* *Docker transparently handles routing of each packet to and from the correct Docker daemon host and the correct destination container.*
* *It allows to create a flat, secure, layer-2 network, spanning multiple hosts. Containers connect to this and can communicate directly.*

**Answer :**Overlay networks are only created on the manager nodes.

**In Production environments, how devicemapper has to be configured to ensure use of system resources more efficiently ?**

Options are :

* *direct-lvm (Correct)*
* *loop-lvm*
* *ext-lvm*
* *block-lvm*

**Answer :**direct-lvm

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**When you deploy UCP, it starts running a globally scheduled service called ucp-agent, this service monitors the node where it’s running and starts and stops UCP services, based on whether the node is a manager or a worker node.**

**If the node is a manager node, how does ucp-agent will work on this node ?**

Options are :

* *The ucp-agent service starts serving a proxy service that ensures only authorized users and other UCP services can run Docker commands in that node. The ucp-agent deploys a subset of containers on these nodes.*
* *The ucp-agent service automatically starts serving all UCP components, including the UCP web UI and data stores used by UCP. The ucp-agent accomplishes this by deploying several containers on the node. (Correct)*

**Answer :**The ucp-agent service automatically starts serving all UCP components, including the UCP web UI and data stores used by UCP. The ucp-agent accomplishes this by deploying several containers on the node.

**Which Docker solution below provide an option to integrate with LDAP ?**

Options are :

* *Docker Trusted Registry*
* *Docker Cloud*
* *Universal Control Plane (Correct)*
* *Docker Hub*

**Answer :**Universal Control Plane

**How to configure the Docker daemon to default to a specific logging driver ?**

Options are :

* *Use the flag --log-driver when you start the Daemon Docker.*
* *Use the flag --log-opt when you start a container.*
* *Use the flag --log-driver when you start a container.*
* *Set the value of log-driver to the name of the logging driver in the daemon.json file. (Correct)*

**Answer :**Set the value of log-driver to the name of the logging driver in the daemon.json file.

**You can monitor the status of UCP by using the web UI or the CLI. You can also use the \_ping endpoint to build monitoring automation. True or False ?**

Options are :

* *True (Correct)*
* *False*

**Answer :**True

**Pod Security Policies (PSPs) are cluster-level resources that are enabled by default in UCP 3.2.UCP uses its own role-based access control (RBAC) for Kubernetes clusters. Which of the following role-grants does Kubernetes provide?**

Options are :

* *NodeRoleBinding*
* *PodRoleBinding*
* *UserRoleBinding*
* *ClusterRoleBinding (Correct)*
* *RoleBinding (Correct)*

**Answer :**ClusterRoleBinding RoleBinding

**By default, when you push an image to DTR, the Docker CLI client doesn’t sign the image.You can configure the Docker CLI client to sign the images you push to DTR. That way, what are the steps needed to sign an image ?**

Options are :

* *Initialize trust metadata for the repository (Correct)*
* *Configure your Notary client (Correct)*
* *Push private keys to DTR server*
* *Delegate signing to the keys in your UCP client bundle (Correct)*

**Answer :**Initialize trust metadata for the repository Configure your Notary client Delegate signing to the keys in your UCP client bundle

**Which of the following commands , it will show pods where environment variables is production ?**

Options are :

* *kubectl get pods --filter env=production*
* *kubectl get pods -f env=production*
* *kubectl get pods -l env=production (Correct)*
* *kubectl get pods --format env=production*

**Answer :**kubectl get pods -l env=production

**Which of the following statements is correct?**

Options are :

* *Top writable layer is the major difference between a container and an image. All writes to the container that add new or modify existing data are stored in this writable layer. (Correct)*
* *When a container is deleted, the writable layer is persisted*
* *The column 'virtual size' of docker ps -s output shows the amount of data used for the read-only image data used by the container plus the container's writable layer 'size'. (Correct)*
* *The column 'size' of docker ps -s output shows the amount of data that is used for the writable layer of each container. (Correct)*

**Answer :**Top writable layer is the major difference between a container and an image. All writes to the container that add new or modify existing data are stored in this writable layer. The column 'virtual size' of docker ps -s output shows the amount of data used for the read-only image data used by the container plus the container's writable layer 'size'. The column 'size' of docker ps -s output shows the amount of data that is used for the writable layer of each container.

**In a DevOps environment, 10 nodes are working as part of the swarm cluster. According to business rules, there is a requirement to only allow containers based on Kubernetes orchestrator .Which of the following commands below it will enable Docker achieving this rule?**

Options are :

* *docker node update --label-add com.ucp.orchestrator.kubernetes=true*
* *docker node update --label-add com.docker.ucp.orchestrator.kubernetes=true (Correct)*
* *docker node --label--add com.docker.ucp.orchestrator.kubernetes=true*
* *docker node add --label-add com.orchestrator.kubernetes=true*

**Answer :**docker node update --label-add com.docker.ucp.orchestrator.kubernetes=true

**What commands show published port or a specific mapping for the container ?**

Options are :

* *docker info*
* *docker container inspect (Correct)*
* *docker port (Correct)*
* *docker network inspect*

**Answer :**docker container inspect docker port

**Which technology is used to limit an application to a specific set of resources ?**

Options are :

* *Resource quota*
* *Docker Engine*
* *Namespaces*
* *Control groups (Correct)*

**Answer :**Control groups

**Which technology allows Docker Engine to limit the amount of hardware resource consumed by a container, such as, limit amount of available memory for a container ?**

Options are :

* *Namespaces*
* *Hypervisor*
* *Resources Groups*
* *Control Groups (Correct)*

**Answer :**Control Groups

**What is the purpose of Docker Content Trust?**

Options are :

* *Enabling mutual TLS between the Docker client and server*
* *Signing and verification of image tags (Correct)*
* *Indicating an image on Docker Hub is an official image*
* *Docker registry TLS verification and encryption*

**Answer :**Signing and verification of image tags

**By default, how many layers of docker image does docker daemon pull from the docker registry at a time?**

Options are :

* *2*
* *4*
* *1*
* *3 (Correct)*

**Answer :**3

**A \_\_\_\_ is a running container which is part of a swarm service and managed by a swarm manager, as opposed to a standalone container.**

Options are :

* *instance*
* *image*
* *task (Correct)*
* *node*

**Answer :**task

**Following the principle of least privilege, which of the following methods can be used to securely grant access to the specific user to communicate to a Docker engine? (Choose all that apply)**

Options are :

* *Utilize openssl to create TLS client and server certificates, configuring the Docker engine to use with mutual TLS over TCP. (Correct)*
* *Give the user root access to the server to allow them to run Docker commands as root.*
* *Add the user to the 'docker' group on the server or specify the group? with the '--group' Docker daemon option. (Correct)*
* *Utilize the '--host 127.0.0.1:2375' option to the Docker daemon to listen on port 2375 over TCP on localhost*
* *Utilize the '--host 0.0.0.0:2375' option to the Docker daemon to listen on port 2375 over TCP on all interfaces*

**Answer :**Utilize openssl to create TLS client and server certificates, configuring the Docker engine to use with mutual TLS over TCP. Add the user to the 'docker' group on the server or specify the group? with the '--group' Docker daemon option.

**What is the docker command to roll back to the previous version of a service?**

Options are :

* *docker service --rollback SERVICE*
* *docker service update --rollback SERVICE (Correct)*
* *docker service --rollback-version SERVICE*
* *docker service update --rollback-version SERVICE*

**Answer :**docker service update --rollback SERVICE

**Which of the following modes can be used for service discovery of a Docker swarm service (Select all that apply)?**

Options are :

* *DNS Round-Robin with --endpoint-mode dnsrr (Correct)*
* *Ingress with --endpoint-mode ingress*
* *Virtual IP (VIP) with --endpoint-mode vip (Correct)*
* *Overlay with --endpoint-mode overlay*

**Answer :**DNS Round-Robin with --endpoint-mode dnsrr Virtual IP (VIP) with --endpoint-mode vip

**Which of the following is supported by control groups?**

Options are :

* *Collect net*
* *Manage certificates*
* *Limit CPU usage within a container (Correct)*
* *Isolate processes in a container*

**Answer :**Limit CPU usage within a container

**Which of the following commands will automatically create a volume when a container is started?**

Options are :

* *'docker container run --name nginxtest --volumes=/app nginx'*
* *'docker container run --name nginxtest --volumes myvol:/app:new nginx'*
* *'docker container run --name nginxtest -v myvol:/app nginx' (Correct)*
* *'docker container run --name nginxtest -v /app:mount nginx'*

**Answer :**'docker container run --name nginxtest -v myvol:/app nginx'

**What service mode is used to deploy a single task of a service to each node?**

Options are :

* *Universal*
* *Global (Correct)*
* *Replicated*
* *Agent*

**Answer :**Global

**What is the docker command to add or update a mount on a service?**

Options are :

* *docker service update --mount-add type=volume,source=other-volume,target=/somewhere-else myservice (Correct)*
* *docker service --add-update-mount type=volume,source=other-volume,target=/somewhere-else myservice*
* *docker service --mount-volume type=volume,source=other-volume,target=/somewhere-else myservice*
* *docker service set --add-update-mount type=volume,source=other-volume,target=/somewhere-else myservice*

**Answer :**docker service update --mount-add type=volume,source=other-volume,target=/somewhere-else myservice

**Which network allows Docker Trusted Registry components running on different nodes to communicate which each other and replicate Docker Trusted Registry data?**

Options are :

* *dtr-br*
* *dtr-ol (Correct)*
* *dtr-hosts*
* *dtr-vlan*

**Answer :**dtr-ol

**Which is the recommended approach to set the storage driver?**

Options are :

* *Use --storage-driver flag when running dockerd*
* *Set the "storage-driver" option in the daemon.json file (Correct)*

**Answer :**Set the "storage-driver" option in the daemon.json file

**Which of the following is a step in backing up the Docker Swarm?**

Options are :

* *Back up the contents of /var/lib/docker/swarm on a Swarm manager. (Correct)*
* *Back up the layered file systems of all containers running within the swarm.*
* *Back up the contents of /etc/docker on a Swarm manager.*
* *Back up the contents of /etc/docker/swarm on a Swarm manager.*

**Answer :**Back up the contents of /var/lib/docker/swarm on a Swarm manager.

**Which docker command can you use to add a node to a swarm?**

Options are :

* *docker swarm create-node*
* *docker join swarm*
* *docker swarm add-node*
* *docker swarm join (Correct)*

**Answer :**docker swarm join

**Which of the following is not an endpoint exposed by Docker Trusted Registry (DTR) that can be used to assess the health of a Docker Trusted Registry replica?**

Options are :

* */nginx\_status*
* */replica\_status (Correct)*
* */api/v0/meta/cluster\_status*
* */health*

**Answer :**/replica\_status

**What Linux technology does Docker use in order to limit memory usage for containers?**

Options are :

* *Capabilities*
* *Namespaces*
* *The mem namespace.*
* *Control groups ( cgroups ) (Correct)*

**Answer :**Control groups ( cgroups )

**What is the endpoint that we can use to check the health of a single UCP manager node?**

Options are :

* *https:///\_ping (Correct)*
* *https: :///\_health*
* *https:///\_status*
* *https:///\_ heartbeat*

**Answer :**https:///\_ping

**Which feature allows Docker Engine to share available hardware resources to containers and optionally enforce limits and constraints?**

Options are :

* *Control Groups (Correct)*
* *Virtualization Layers*
* *HyperVisor*
* *Hardware Abstraction*

**Answer :**Control Groups

**You can configure the daemon so that containers remain running if the daemon becomes unavailable. True or False.**

Options are :

* *False*
* *True (Correct)*

**Answer :**True

**Which of the following options for resource limitation is representative of a Control Group (cgroup) when added to a container? (Choose the 2 correct answers)**

Options are :

* *--limit=[#]*
* *--memory=[amount b/k/m/g] (Correct)*
* *-end=[#]*
* *--cpus=[value] (Correct)*

**Answer :**--memory=[amount b/k/m/g] --cpus=[value]

**To decrease the time to pull images for geographically dispersed users you can configure which DTR option?**

Options are :

* *DTR CDN*
* *DTR Local Registry*
* *DTR Edge*
* *DTR cache (Correct)*

**Answer :**DTR cache

**Which command can you use on a node to join the current node to the swarm cluster as a worker node?**

Options are :

* *None of the above*
* *docker swarm join --token (Correct)*
* *docker swarm --join --token*
* *docker swarm join worker*

**Answer :**docker swarm join --token

**To configure Docker daemon to start as the system boots up, which of the following commands is correct for most Linux distributions?**

Options are :

* *sudo systemctl start docker*
* *sudo systemctl default docker*
* *sudo systemctl enable docker (Correct)*
* *sudo systemctl up docker*

**Answer :**sudo systemctl enable docker

**You can monitor the status of UCP by using either the web UI, either the CLI?**

Options are :

* *TRUE (Correct)*
* *FALSE*

**Answer :**TRUE

**A user is having problems running Docker. How can you start Docker in debug mode?**

Options are :

* *Set the debug key to true in the 'daemon.json' file. (Correct)*
* *Start the 'dockerd' process manually with the '--raw-logs' flag set to debug*
* *Start the 'dockerd' process manually with the '--logging' flag set to debug*
* *Set the logging key to debug in the 'daemon.json' file.*

**Answer :**Set the debug key to true in the 'daemon.json' file.

**Which of the following options best describes the procedure for backing up the Universal Control Plane (UCP) metadata?**

Options are :

* *Create an archive for all of the data under the /etc/docker/ucp directory.*
* *Run a container from the ucp image with the uninstall-ucp command.*
* *Create an archive for all of the data under the /var/data/ucp directory.*
* *Run a container from the ucp image with the backup command. (Correct)*

**Answer :**Run a container from the ucp image with the backup command.

**Which modes does Docker provide for delivering messages from the container to the log driver? (select two)**

Options are :

* *blocking (Correct)*
* *syncrhonous*
* *asynchronous*
* *non-blocking (Correct)*

**Answer :**blocking non-blocking

**Which is the recommended way to configure the daemon flags and environment variables for your Docker daemon in a platform-independent way?**

Options are :

* *Using 'docker config' to set the configuration options.*
* *Set the configuration options using the ENV variable*
* *Set the configuration options in '/etc/docker/daemon.json' (Correct)*
* *Set the configuration DOCKER\_OPTS in '/etc/default/docker'*

**Answer :**Set the configuration options in '/etc/docker/daemon.json'

**What flag can you pass to docker run to set various restrictions on resource usage such as stack size, open files, processes etc.?**

Options are :

* *--resource-limit*
* *--ulimit (Correct)*
* *nproc*

**Answer :**--ulimit

**Which is the recommended way to installed Docker Engine on a production server?**

Options are :

* *Install using the convenience script*
* *None of the above*
* *Install from a package*
* *Install using the repository (Correct)*

**Answer :**Install using the repository

**How can you configure the Docker daemon to start as the system boots up? (select two)**

Options are :

* *Use systemd for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher) (Correct)*
* *Use upstart for Ubuntu 14.10 and below (Correct)*
* *Use crond for Ubuntu 14.10 and below*
* *Use startup for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher)*

**Answer :**Use systemd for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher) Use upstart for Ubuntu 14.10 and below

**Which of the following technologies make up container format? (select three)**

Options are :

* *Docker control plane*
* *UnionFS (Correct)*
* *Control Groups (Correct)*
* *Namespaces (Correct)*
* *Docker Daemon*

**Answer :**UnionFS Control Groups Namespaces

**What are the hardware and software requirements to install Docker Trusted Registry (DTR)? (select all that apply)**

Options are :

* *All nodes must be a worker node managed by Universal Control Plan (Correct)*
* *Make sure the port 8080 and 8443 are open on the node*
* *DTR can be installed on-premises or on a cloud provider (Correct)*
* *All nodes must have fixed hostname (Correct)*

**Answer :**All nodes must be a worker node managed by Universal Control Plan DTR can be installed on-premises or on a cloud provider All nodes must have fixed hostname

**Can you use the local file system if you are deploying DTR with high-availability?**

Options are :

* *TRUE*
* *FALSE (Correct)*

**Answer :**FALSE

**Which is the docker command to backup the UCP?**

Options are :

* *docker/ucp backup (Correct)*
* *docker ucp backup*
* *docker backup ucp*
* *docker backup all*

**Answer :**docker/ucp backup

**You are using self-signed UCP certs and have a second DNS name that points to your internal controllers (UCP). When installing UCP, which flag should you use to add this additional name?**

Options are :

* *-external-server-cert*
* *--san (Correct)*
* *--dns*
* *--internal-server-cert*

**Answer :**--san

**Which of the following commands will set the Docker engine into debug mode?**

Options are :

* *echo '{"debug": true}' > /etc/docker/config.json ; sudo kill -HUP*
* *echo '{"debug": true}' > /var/lib/docker/config.json ; sudo kill -HUP*
* *echo '{"debug": true}' > /etc/docker/daemon.json ; sudo kill -HUP (Correct)*
* *echo '{"debug": true}' > /var/lib/docker/daemon.json ; sudo kill -HUP*

**Answer :**echo '{"debug": true}' > /etc/docker/daemon.json ; sudo kill -HUP

**Which storage driver is used by default when installing Docker?**

Options are :

* *ext4*
* *brtfs*
* *overlay2 (Correct)*
* *zfs*

**Answer :**overlay2

**Which type of mount is best when you need to back up, restore, or migrate data from one Docker host to another?**

Options are :

* *tempfs*
* *bind mounts*
* *volumes (Correct)*
* *Regular*

**Answer :**volumes

**Which of the following statements is false?**

Options are :

* *Copy-on-write is a Docker strategy of sharing and copying files for maximum efficiency.*
* *When a container is deleted, the writable layer is persisted. (Correct)*
* *The column 'size' of docker ps -s output shows the amount of data that is used for the writable layer of each container.*
* *The column 'virtual size' of docker ps -s output shows the amount of data used for the read-only image data used by the container, plus the container's writable layer 'size'.*

**Answer :**When a container is deleted, the writable layer is persisted.

**A service 'wordpress' is running using a password string to connect to a non-Dockerized database service. The password string is passed into the 'wordpress' service as a Docker secret. Per security policy, the password on the database was changed. Identity the correct sequence of steps to rotate the secret from the old password to the new password.**

Options are :

* *Trigger an update to the service by using 'docker service update --secret='*
* *Create a new docker secret with the new password. Trigger a rolling secret update by using the 'docker secret update' command*
* *Create a new docker secret with the new password. Remove the existing service using 'docker service rm'. Start a new service with the new secret using "--secret="*
* *Create a new docker secret with a new password. Trigger a rolling update of the "wordpress" service, by using "-- secret-rm" & "--secret-add" to remove the old secret and add the updated secret.*

**Answer :**Create a new docker secret with a new password. Trigger a rolling update of the "wordpress" service, by using "-- secret-rm" & "--secret-add" to remove the old secret and add the updated secret.

**Which set of commands can identify the publishd port(s) for a container?**

Options are :

* *'docker container inspect', docker port'*
* *'docker network inspect','docker port'*
* *'docker port inspect', 'docker container inspect'*
* *'docker info','docker network inspect'*

**Answer :**'docker container inspect', docker port'

[Docker Certified Associate (DCA) Practice Exams Set 16](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-16)

**What service mode is used to deploy a single task of a service to each node?**

Options are :

* *Universal*
* *Spread*
* *Global*
* *Replicated*
* *Distributed*

**Answer :**Global

**How do you configure Docker engine to use a registry that is not configured with TLS certificates from a trusted CA?**

Options are :

* *Set and export the IGNORE\_TLS environment variable on the command line.*
* *Pass the '--insecure-registry' flag to the daemon at run time.*
* *Set INSECURE\_REGISTRY in the '/etc/docker/default' configuration file.*
* *Set IGNORE\_TLS in the 'daemon.json' configuration file.*

**Answer :**Pass the '--insecure-registry' flag to the daemon at run time.

**Which of the following commands starts a Redis container and configures it to always restart unless it is explicitly stopped or Docker is restarted?**

Options are :

* *'docker run -d --restart omit-stopped redis'*
* *'docker run -d --failure omit-stopped redis'*
* *'docker run -d --restart-policy unless-stopped redis'*
* *docker run -d --restart unless-stopped redis'*

**Answer :**docker run -d --restart unless-stopped redis'

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**A docker service 'web' is running with a scale factor of 1 (replicas = 1). Bob intends to use the command 'docker service update --replicas=3 web'. Alice intends to use the command 'docker service scale web=3'. How do the outcomes of these two commands differ?**

Options are :

* *Bob's command results in an error. Alice's command updates the number of replicas of the 'web' service to 3.*
* *Bob's command updates the number of replicas of the 'web' service to 3. Alice's command results in an error.*
* *Bob's command only updates the service definition, but no new replicas are started. Alice's command results in the actual scaling up of the 'web' service.*
* *Both Bob's and Alice's commands result in exactly the same outcome, which is 3 instances of the 'web' service.*

**Answer :**Both Bob's and Alice's commands result in exactly the same outcome, which is 3 instances of the 'web' service.

**What is the recommended way to configure the daemon flags and environment variables for your Docker daemon in a platform independent way?**

Options are :

* *Set the configuration DOCKER\_OPTS in '/etc/default/docker'*
* *Set the configuration options in '/etc/docker/daemon.json'*
* *Set the configuration options using the ENV variable*
* *Using 'docker config' to set the configuration options.*

**Answer :**Set the configuration options in '/etc/docker/daemon.json'

**Which of the following is NOT how to create an efficient image via a Dockerfile?**

Options are :

* *Use multi-stage builds*
* *Start with an appropriate base image*
* *Avoid installing unnecessary packages*
* *Combine multiple applications into a single container*

**Answer :**Combine multiple applications into a single container

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**Which of the following is supported by control groups?**

Options are :

* *Collect net*
* *Isolate processes in a container*
* *Mange certificates*
* *Limit CPU usage within a container*

**Answer :**Limit CPU usage within a container

**Which flag for a service would allow a container to consume more than 2 GB of memory only when there is no memory contention but would also prevent a container from consuming more than 4GB of memory, in any case?**

Options are :

* *--limit-memory 2GB --reserve-memory 4GB*
* *--limit-memory 4GB --reserve-memory 2GB*
* *--memory-swap 2GB --limit-memory 4GB*
* *--memory-swap 4GB --limit-memory 2GB*

**Answer :**--limit-memory 4GB --reserve-memory 2GB

**What is the image storage solution that is part of Docker Enterprise Edition called?**

Options are :

* *Universal Control Plane*
* *Docker Hub*
* *Docker Registry*
* *Docker Trusted Registry*

**Answer :**Docker Trusted Registry

[Docker Certified Associate (DCA) Practice Exams Set 2](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-2)

**What is the docker command for displaying layers of a Docker image?**

Options are :

* *docker info*
* *docker history*
* *docker layers*
* *docker image layers*

**Answer :**docker history

**If installing Docker using devicemapper for storage with the Intent to run production workloads, how should devicemapper be configured?**

Options are :

* *direct-lvm*
* *aufs-lvm*
* *overlay-lvm*
* *loop-lvm*

**Answer :**direct-lvm

**In Docker Trusted Registry, how would a user prevent an image, for example 'nginx:latest' from being overwritten by another user with push access to the repository?**

Options are :

* *Tag the image with 'nginx:immutable'*
* *Use the DTR web UI to make the tag immutable.*
* *Remove push access from all other users.*
* *Keep a backup copy of the image on another repository.*

**Answer :**Use the DTR web UI to make the tag immutable.

[Docker Certified Associate (DCA) Practice Exams Set 2](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-2)

**Docker image is built up from a series of layers and each layer represents an instruction in the image's Dockerfile. True or false?**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**What is the function of docker inspect command"**

Options are :

* *To return low-level information on Docker objects*
* *To manage Docker configs*
* *To inspect changes to files or directories on a container's filesystem*
* *To display system-wide information*

**Answer :**To return low-level information on Docker objects

**Following the principle of least privilege, which of the following methods can be used to securely grant access to the specific user to communicate to a Docker engine? (Choose two.)**

Options are :

* *C. Add the user to the 'docker' group on the server or specify the group with the '--group' Docker daemon option.*
* *Utilize the '--host 0.0.0.0:2375' option to the Docker daemon to listen on port 2375 over TCP on all interfaces.*
* *Give the user root access to the server to allow them to run Docker commands as root.*
* *Utilize the '--host 127.0.0.1:2375' option to the Docker daemon to listen on port 2375 over TCP on localhost*
* *Utilize openssl to create TLS client and server certificates, configuring the Docker engine to use with mutual TLS over TCP.*

**Answer :**C. Add the user to the 'docker' group on the server or specify the group with the '--group' Docker daemon option. Utilize openssl to create TLS client and server certificates, configuring the Docker engine to use with mutual TLS over TCP.

[Docker Certified Associate (DCA) Practice Exams Set 16](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-16)

**Dockerfile option EXPOSE publish the port to external systems. True or false?**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**Which of the following statements is incorrect?**

Options are :

* *When a container is deleted, the writable layer is persisted.*
* *Copy-on-write is a Docker strategy of sharing and copying files for maximum efficiency.*
* *The column 'size' of docker ps -s output shows the amount of data that is used for the writable layer of each container.*
* *The column 'virtual size' of docker ps -s output shows the amount of data used for the read-only image data used by the container plus the container's writable layer 'size'.*

**Answer :**When a container is deleted, the writable layer is persisted.

**Which of the following docker image commands display detailed information on one or more images?**

Options are :

* *docker image ls*
* *docker image detail*
* *docker image inspect*
* *docker image history*

**Answer :**docker image inspect

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**Which one of the following commands will result in the volume being removed automatically once the container has exited?**

Options are :

* *'docker run --rm -v /foo busybox'*
* *'docker run --remove -v /foo busybox'*
* *'docker run --read-only -v /foo busybox'*
* *'docker run --del -v /foo busybox'*

**Answer :**'docker run --rm -v /foo busybox'

**Each container shares common writeable container layer. True or false?**

Options are :

* *FALSE*
* *TRUE*

**Answer :**FALSE

**Which of the following is true about overlay networks?**

Options are :

* *Overlay networks are first created on the manager nodes. Then they are created on the worker nodes once a task is scheduled on the specific worker node.*
* *Overlay networks are created only on the manager node that you created the overlay networking on.*
* *Overlay networks are only created on the manager nodes.*
* *Overlay networks are created on all cluster nodes when you create the overlay network.*

**Answer :**Overlay networks are first created on the manager nodes. Then they are created on the worker nodes once a task is scheduled on the specific worker node.

[Docker and Containers: Commands Set 3](https://chercher.tech/docker-certification/docker-and-containers-commands-set-3)

**What is the purpose of Docker Content Trust?**

Options are :

* *Indicating an image on Docker Hub is an official image*
* *Signing and verification of image tags*
* *Docker registry TLS verification and encryption*
* *Enabling mutual TLS between the Docker client and server*

**Answer :**Signing and verification of image tags

**What is the difference between the ADD and COPY dockerfile instructions? (choosen 2)**

Options are :

* *ADD supports compression format handling while COPY does not.*
* *COPY supports compression format handling while ADD does not.*
* *ADD supports regular expression handling while COPY does not.*
* *COPY supports regular expression handling while ADD does not.*
* *ADD support remote URL handling while COPY does not.*

**Answer :**ADD supports compression format handling while COPY does not. ADD support remote URL handling while COPY does not.

**What is the docker command to remove one or more images?**

Options are :

* *docker image delete*
* *docker image rm*
* *docker remove*
* *docker delete*

**Answer :**docker image rm

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**When using the Docker client to push an image to a registry, what environment variable is used to instruct the client to perform signing of the image?**

Options are :

* *DOCKER\_IMAGE\_SIGN=1*
* *DOCKER\_CONTENT\_TRUST=1*
* *DOCKER\_PUSH\_SIGN=1*
* *NOTARY\_ENABLE=1*

**Answer :**DOCKER\_CONTENT\_TRUST=1

**What is one way of directly transferring a Docker Image from one Docker host in another?**

Options are :

* *There is no way of directly transferring Docker images between hosts. A Docker Registry must be used ad an intermediary.*
* *'docker save' the image to save it as TAR file and copy it over to the target host. Then use 'docker load' to un-TAR the image back as a Docker image.*
* *'docker commit' to save the image outside of the Docker filesystem. Then transfer the file over to the target host and 'docker start' to start the container again.*
* *'docker push' the image to the IP address of the target host.*

**Answer :**'docker save' the image to save it as TAR file and copy it over to the target host. Then use 'docker load' to un-TAR the image back as a Docker image.

**Which of the following is required to install Docker EE from a package repository?**

Options are :

* *License key obtained from Docker Store*
* *Repository URL obtained from Docker Hub*
* *License key obtained from Docker Hub*
* *Repository URL obtained from Docker Store*

**Answer :**Repository URL obtained from Docker Store

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**What is the default format of docker inspect output?**

Options are :

* *yaml*
* *html*
* *xml*
* *json*

**Answer :**json

**After creating a new service named 'http', you notice that the new service is not registering as healthy. How do you view the list of historical tasks for that service by using the command line?**

Options are :

* *'docker service inspect http'*
* *'docker service ps http'*
* *'docker inspect http'*
* *'docker ps http'*

**Answer :**'docker service inspect http'

**Which of the following is the correct command to tag an image?**

Options are :

* *docker build tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]*
* *docker tag image SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]*
* *docker tag TARGET\_IMAGE[:TAG] SOURCE\_IMAGE[:TAG]*
* *docker tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]*

**Answer :**docker tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**What is used by the kernel to isolate resources when running Docker containers?**

Options are :

* *Control groups (also know as cgroups)*
* *Overlay networks*
* *Volumes*
* *Namespaces*

**Answer :**Control groups (also know as cgroups)

**You can monitor the status of UCP by using the web UI or the CLI. True or false?**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**What is the docker command to pull an image or a repository from a registry?**

Options are :

* *docker build*
* *docker deploy*
* *docker pull*
* *docker checkout*

**Answer :**docker pull

[Docker and Containers: Commands Set 4](https://chercher.tech/docker-certification/docker-and-containers-commands-set-4)

**A container named "analytics" that stores results in a volume called "data" was created. docker run -d --name=analytics -v data:/data webapp. How are the results accessed in "data" with another container called "dbapp"?**

Options are :

* *docker run -d --name=reports --volume=data dbapp*
* *docker run -d --name=reports --volume=webapp dbapp*
* *docker run -d --name=reports --volume-from=analytics dbapp*
* *docker run -d --name=reports --mount=webapp dbapp*

**Answer :**docker run -d --name=reports --volume-from=analytics dbapp

**Which statement is true about DTR garbage collection?**

Options are :

* *Garbage collection removes unreferenced image layers from DTR's backend storage.*
* *Garbage collection removes unused volumes from cluster nodes*
* *Garbage collection removes exited containers from cluster nodes.*
* *Garbage collection removes DTR images that are older than a configurable of days.*

**Answer :**Garbage collection removes unreferenced image layers from DTR's backend storage.

**What is the purpose of a client bundle in the Universal Control Plane?**

Options are :

* *Provide a user with a Docker client binary compatible with the Universal Control Plane*
* *Group multiple users in a team in the Universal Control Plane*
* *Provide a new user instructions for how to login to the Universal Control Plane*
* *Authenticate a user using client certificates to the Universal Control Plane*

**Answer :**Authenticate a user using client certificates to the Universal Control Plane

[Docker Certified Associate (DCA) Practice Exams Set 10](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-10)

**The following health check exists in a Dockerfile:**

**'HEALTCHECK CMD curl --fail http://localhost/health || exit 1'**

**Which of the following describes its purpose?**

Options are :

* *Defines the health check endpoint on the local host interface for containers to monitor the health of the docker engine.*
* *Defines the action taken when container health fails, which in this case will kill the container with exit status 1.*
* *Defines the health check endpoint on the localhost interface for external monitoring tools to monitor the health of the docker engine.*
* *Defines the health check for the containerized application so that the application health can be monitored by the Docker engine.*

**Answer :**Defines the action taken when container health fails, which in this case will kill the container with exit status 1.

**Which of the following is the correct command to store an image to a registry?**

Options are :

* *docker upload [OPTIONS] NAME[:TAG]*
* *docker store [OPTIONS] NAME[:TAG]*
* *docker commit [OPTIONS] NAME[:TAG]*
* *docker push [OPTIONS] NAME[:TAG]*

**Answer :**docker push [OPTIONS] NAME[:TAG]

**Docker security scan can be started by all users including those with read-only access. True or false?**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**Which of the following modes can be used for service discovery of a Docker swarm service (Pick 2 correct answers)?**

Options are :

* *Virtual IP (VIP) with --endpoint-mode vip*
* *Overlay with --endpoint-mode overlay*
* *Network Address Translation(NAT) with --endpoint-mode nat*
* *Ingress with --endpoint-mode ingress*
* *DNS Round-Robin with --endpoint-mode dnsrr*

**Answer :**Virtual IP (VIP) with --endpoint-mode vip DNS Round-Robin with --endpoint-mode dnsrr

**Which of these swarm manager configurations will cause the cluster to be in a lost quorum state?**

Options are :

* *3 managers of which 2 are healthy.*
* *5 managers of which 3 are healthy.*
* *1 manager of which 1 is healthy.*
* *4 managers of which 2 are healthy.*

**Answer :**4 managers of which 2 are healthy.

**What is the difference between a resource limit and a resource reservation when scheduling services?**

Options are :

* *A resource limit and a resource reservation can be used interchangeably.*
* *A resource limit is used to find a host with adequate resources for scheduling a hard limit for your service, while a reservation is hard limit for your service.*
* *A resource limit is hard limit for your service, while a reservation is used to find a host with adequate resources for scheduling.*
* *A resource limit is soft limit for your service, while a reservation is hard limit and the docker engine will do its best to keep your service at the limit.*

**Answer :**A resource limit is hard limit for your service, while a reservation is used to find a host with adequate resources for scheduling.

[Docker Certified Associate (DCA) Practice Exams Set 8](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-8)

**Which of the following is the docker command to enable autolock on an existing swarm cluster?**

Options are :

* *docker swarm update --autolock-swarm=true*
* *docker swarm --autolock=true*
* *docker swarm autolock*
* *docker swarm update --autolock=true*

**Answer :**docker swarm update --autolock=true

**Which of the following namespaces is disabled by default and must be enabled at Docker engine runtime in order to be used?**

Options are :

* *user*
* *net*
* *mnt*
* *pid*

**Answer :**user

**Publishing a service's port using the routing mesh makes the service accessible at the published port on every swarm node. True or false?**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**Which network driver type is best when the network stack should not be isolated from the Docker host, but you want other aspects of the container to be isolated?**

Options are :

* *Overlay networks*
* *Host networks*
* *User-defined bridge networks*
* *Macvlan networks*

**Answer :**Host networks

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**What is the difference between a replicated and a global service?**

Options are :

* *Replicated service can only be deployed on manager node. Global service can be deployed on both manager and worker node.*
* *Replicated service runs one task on every node. Global service runs multiple task on every node.*
* *Number of identical tasks can be specified for a replicated service. There is no pre-specified number of tasks for global service.*
* *Good candidates for replicated service are monitoring agents that you want.*

**Answer :**Number of identical tasks can be specified for a replicated service. There is no pre-specified number of tasks for global service.

**Which one of the following commands will show a list of volumes for a specific container?**

Options are :

* *'docker volume logs nginx --containers'*
* *'docker container inspect nginx'*
* *'docker volume inspect nginx'*
* *'docker container logs nginx --volumes'*

**Answer :**'docker container inspect nginx'

**Which of the following commands will automatically create a volume when a container is started?**

Options are :

* *'docker container run --name nginxtest --volumes myvol:/app:new nginx'*
* *'docker container run --name nginxtest -v myvol:/app nginx'*
* *'docker container run --name nginxtest -v /app:mount nginx'*
* *'docker container run --name nginxtest --volumes=/app nginx'*

**Answer :**'docker container run --name nginxtest -v /app:mount nginx'

[Docker Certified Associate (DCA) Practice Exams Set 16](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-16)

**Which command interactively monitors all container activity in the Docker engine?**

Options are :

* *docker system events*
* *docker system logs*
* *docker container events*
* *docker container logs*

**Answer :**docker system events

**You have deployed a service to swarm. Which command uses the Docker CLI to set the number of tasks of the services to 5? (Choose 2)**

Options are :

* *'docker replica update =5'*
* *docker update service =5'*
* *docker service update --replicas=5 '*
* *'docker service replicas =5'*
* *docker service scale = 5''*

**Answer :**docker service update --replicas=5 ' docker service scale = 5''

**What docker image prune command does?**

Options are :

* *Show the history of an image*
* *Remove one or more images*
* *Display detailed information on one or more images*
* *Remove unused images*

**Answer :**Remove unused images

[Docker Certified Associate (DCA) Practice Exams Set 8](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-8)

**What is the docker command to see the storage driver Docker is currently using?**

Options are :

* *docker status*
* *docker info*
* *docker config*
* *docker inspect*

**Answer :**docker info

**Which network driver type is best when you need containers running on different Docker hosts to communicate, or when multiple applications work together using swarm services? A.  B.  C.  D.**

Options are :

* *User-defined bridge networks*
* *Overlay networks*
* *Macvlan networks*
* *Host networks*

**Answer :**Overlay networks

**What is the docker command to add or update a node label?**

Options are :

* *docker node update --set-label*
* *docker node update --label-add*
* *docker node add --label*
* *docker node modify --set-label*

**Answer :**docker node update --label-add

[Docker Certified Associate (DCA) Practice Exams Set 16](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-16)

**What is the docker command to setup a swarm?**

Options are :

* *docker swarm create*
* *docker swarm init*
* *docker init swarm*
* *docker create swarm*

**Answer :**docker swarm init

**Which of the followings are Docker Engine Security features? (Select all that apply)**

Options are :

* *You can configure secure computing mode (Seccomp) policies to secure system calls in a container.*
* *You can use certificate-based client-server authentication to verify a Docker daemon has the rights to access images on a registry.*
* *You can configure Docker's trust features so that your users can push and pull trusted images.*
* *You can protect the Docker daemon socket and ensure only trusted Docker client connections.*

**Answer :**You can configure secure computing mode (Seccomp) policies to secure system calls in a container. You can use certificate-based client-server authentication to verify a Docker daemon has the rights to access images on a registry. You can configure Docker's trust features so that your users can push and pull trusted images. You can protect the Docker daemon socket and ensure only trusted Docker client connections.

**Which of the following commands is used to display system-wide Docker configuration on a host**

Options are :

* *docker system*
* *docker inspect*
* *docker info*
* *docker status*

**Answer :**docker info

**What is the docker command to roll back to the previous version of a service?**

Options are :

* *docker service update --rollback-version*
* *docker service --rollback-version*
* *docker service update --rollback*
* *docker service --rollback*

**Answer :**docker service update --rollback

**What type of network is ingress network?**

Options are :

* *overlay network*
* *bridge network*
* *macvlan network*
* *host network*

**Answer :**overlay network

**What is the docker command to add or update a placement constraint?**

Options are :

* *docker service update --constraint-add*
* *docker service update --pref-add*
* *docker service update --placement-pref-add*
* *docker service update --placement-constraint-add*

**Answer :**docker service update --constraint-add

**Which of the following is how to configure the Docker daemon to start on boot? (Select two)**

Options are :

* *Use upstart for Ubuntu 14.10 and below*
* *Use crond for Ubuntu 14.10 and below*
* *Use systemd for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher)*
* *Use startup for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher)*

**Answer :**Use upstart for Ubuntu 14.10 and below Use systemd for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher)

**Which of the following docker command can be used to find out all the ports mapped? (Select three)**

Options are :

* *docker ps*
* *docker inspect*
* *docker network ls*
* *docker port*

**Answer :**docker ps docker inspect docker port

**What does docker image rm command do?**

Options are :

* *Show the history of an image*
* *Remove one or more images*
* *Display detailed information on one or more images*
* *Remove unused images*

**Answer :**Remove one or more images

**Which of the following Dockerfile options creates a mount point with the specified name and marks it as holding externally mounted volumes from native host or other containers?**

Options are :

* *ONBUILD*
* *VOLUME*
* *RUN*
* *WORKDIR*

**Answer :**VOLUME

**What is the docker command to display detailed information on one or more networks?**

Options are :

* *docker network display*
* *docker inspect network*
* *docker network inspect*
* *docker network status*

**Answer :**docker network inspect

**What is the docker command to add or update a mount on a service?**

Options are :

* *docker service set --add-update-mount*
* *docker service update --mount-add*
* *docker service --add-update-mount*
* *docker service --mount-volume*

**Answer :**docker service update --mount-add

**Which of the following instruction can be used to inform Docker that containers listen on specific ports?**

Options are :

* *EXPOSE*
* *ENV*
* *Both of the above*

**Answer :**EXPOSE

**Which of the following Dockerfile options creates a mount point with the specified name and marks it as holding externally mounted volumes from native host or other containers?**

Options are :

* *ONBUILD*
* *RUN*
* *WORKDIR*
* *VOLUME*

**Answer :**VOLUME

**What is the endpoint that we can use to check the health of a single UCP manager node?**

Options are :

* *https:///\_health*
* *https:///\_status*
* *https:///\_ping*
* *https:///\_heartbeat*

**Answer :**https:///\_ping

**Both RUN and CMD instruction can be used interchangeably in the Dockerfile as they do the similar thing.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**What is the command that need to be executed to sign an image before pushing it to repository?**

Options are :

* *export TRUST\_DOCKER\_IMAGE=1*
* *export SIGN\_DOCKER\_IMAGE=1*
* *export TRUST\_DOCKER\_CONTENT=1*
* *export DOCKER\_CONTENT\_TRUST=1*

**Answer :**export DOCKER\_CONTENT\_TRUST=1

**It is OK to have more than one CMD instruction in the Docker file.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**What are the steps needed to sign images in a way that UCP trusts them? (Select three)**

Options are :

* *Approve image sign on UCP Prakash, Chandra. Docker Certified Associate (DCA) Practice Tests 2019: 100% Pass Guarantee, Over 130 Unique Questions (Kindle Locations 22-25). Kindle Edition.*
* *Delegate signing to the keys in your UCP client bundle*
* *Initialize trust metadata for the repository*
* *Configure Notary client*

**Answer :**Delegate signing to the keys in your UCP client bundle Initialize trust metadata for the repository Configure Notary client

**Docker builds the image using the context which is \_\_\_\_\_\_\_\_\_.**

Options are :

* *Dockerfile found in a specific path or URL*
* *All the files found in a specific path or URL*

**Answer :**All the files found in a specific path or URL

**FROM keyword can only appear once at the start of the Dockerfile.**

Options are :

* *FALSE*
* *TRUE*

**Answer :**FALSE

**What is the docker command to create a container with custom DNS server(s)?**

Options are :

* *docker container create --add-dns=IP\_ADDRESS*
* *docker container create --dns=IP\_ADDRESS*
* *docker container create --custom-dns=IP\_ADDRESS*
* *docker container create --set-dns=IP\_ADDRESS*

**Answer :**docker container create --dns=IP\_ADDRESS

**A Dockerfile can start with any command.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**Which of the following is NOT how to create an efficient image via a Dockerfile?**

Options are :

* *Use multi-stage builds*
* *Combine multiple applications into a single container*
* *Start with an appropriate base image*
* *Avoid installing unnecessary packages*

**Answer :**Combine multiple applications into a single container

**What is the docker command to find the current logging driver for a running container?**

Options are :

* *docker info*
* *docker inspect*
* *docker status*
* *docker config*

**Answer :**docker inspect

**What is the command to set DNS server for all Docker containers?**

Options are :

* *dockerd --dns IP\_ADDRESS*
* *dockerd --set-dns IP\_ADDRESS*
* *dockerd --dns-update IP\_ADDRESS*
* *dockerd --dns-server IP\_ADDRESS*

**Answer :**dockerd --dns IP\_ADDRESS

**What is the correct order to backup Docker EE components?**

Options are :

* *Back up UCP, swarm, and then DTR*
* *Back up swarm, DTR, and then UCP*
* *Back up swarm, UCP, and then DTR*
* *Back up DTR, UCP, and then swarm*

**Answer :**Back up swarm, UCP, and then DTR

**It is OK to have more than one RUN instruction in the Docker file.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**Which of the following docker image commands display detailed information on one or more images?**

Options are :

* *docker image inspect*
* *docker image history*
* *docker image detail*
* *docker image ls*

**Answer :**docker image inspect

**What is the docker command to see container logs?**

Options are :

* *docker logs*
* *docker dump-logs*
* *docker debug*
* *docker fetch-logs*

**Answer :**docker logs

**Which of the following items need to be considered before installing Docker Enterprise?**

Options are :

* *Network ports*
* *Disk space*
* *Docker Engine, DTR, and UCP version compatibility*
* *Time Synchronization*
* *All of the options*

**Answer :**All of the options

**Which of the following option is used to specify a repository and a tag for saving the image after the build is done?**

Options are :

* *-f*
* *-m*
* *-t*
* *-p*

**Answer :**-t

**ARG variables are persisted into the built image as like the ENV variables.**

Options are :

* *FALSE*
* *TRUE*

**Answer :**FALSE

**Which one of the following commands will show a list of volumes for a specific container?**

Options are :

* *docker container inspect nginx'*
* *docker volume logs nginx --containers'*
* *docker volume inspect nginx'*
* *docker container logs nginx --volumes'*

**Answer :**docker container inspect nginx'

**You have deployed a service to swarm. Which command uses the Docker CLI to set the number of tasks of the services to 5? (choose 2)**

Options are :

* *docker replica update =5'*
* *docker service replicas =5'*
* *docker update service =5'*
* *docker service update --replicas=5 '*
* *docker service scale = 5''*

**Answer :**docker service update --replicas=5 ' docker service scale = 5''

**Which of the following commands will ensure that overlay traffic between service tasks is encrypted?**

Options are :

* *docker network create -d overlay -o encrypted=true*
* *docker network create -d overlay --secure*
* *docker service create --network --secure*
* *docker service create --network --encrypted*

**Answer :**docker network create -d overlay -o encrypted=true

**You have created a Docker bridge network on a host with three containers attached, how do you make this containers accessible outside of the host?**

Options are :

* *Use --link to access the containers on the bridge network*
* *Use either EXPOSE or --publish to access the containers on the bridge network*
* *Use network connect to access the containers on the bridge network*
* *Use network attach to access the containers on the bridge network*

**Answer :**Use either EXPOSE or --publish to access the containers on the bridge network

**Which of the following namespaces is disabled by default and must be enabled at Docker engine runtime in order to be used?**

Options are :

* *net*
* *user*
* *pid*
* *mnt*

**Answer :**user

**Which of the following commands is used to display system-wide Docker configuration on a host?**

Options are :

* *docker inspect*
* *docker system*
* *docker info*
* *docker status*

**Answer :**docker info

**What is the difference between a replicated and a global service?**

Options are :

* *Replicated service can only be deployed on manager node. Global service can be deployed on both manager and worker node.*
* *Number of identical tasks can be specified for a replicated service. There is no pre-specified number of tasks for global service.*
* *Replicated service runs one task on every node. Global service runs multiple task on every node.*
* *Good candidates for replicated service are monitoring agents that you want to run on every node in the swarm. Good candidates for global service are http servers.*

**Answer :**Number of identical tasks can be specified for a replicated service. There is no pre-specified number of tasks for global service.

**What is the purpose of multi-stage builds?**

Options are :

* *Better logical separation of Dockerfile instructions for better readability*
* *Faster image builds by allowing parallel execution of Docker builds*
* *Better caching when building Docker images*
* *Optimizing images by copying artifacts selectively from previous stages*

**Answer :**Optimizing images by copying artifacts selectively from previous stages

**What does docker image rm command do?**

Options are :

* *Display detailed information on one or more images*
* *Remove one or more images*
* *Remove unused images*
* *Show the history of an image*

**Answer :**Remove one or more images

**Which of the following commands will create a swarm service which only listens on port 53 using the UDP protocol?**

Options are :

* *docker service create --name dns-cache -p 53:53 --service udp dns-cache*
* *docker service create --name dns-cache -p 53:53 --udp dns-cache*
* *docker service create --name dns-cache -p 53:53/udp dns-cache*
* *docker service create --name dns-cache -p 53:53 --constraint networking-protocol-udp=true dns-cache*

**Answer :**docker service create --name dns-cache -p 53:53/udp dns-cache

**The output of which command can be used to find the architecture and operating system an image is compatible with?**

Options are :

* *docker image info*
* *docker image inspect --format {?{.Architecture}} {?{.OS}} '*
* *docker image inspect --filter {?{.Architecture}} {?{.OS}} '*
* *docker image ls*

**Answer :**docker image inspect --format {?{.Architecture}} {?{.OS}} '

**What docker image prune command does?**

Options are :

* *Remove one or more images*
* *Show the history of an image*
* *Display detailed information on one or more images*
* *Remove unused images*

**Answer :**Remove unused images

**A host machine has four CPUs available and two running containers. The sysadmin would like to assign two CPUs to each container. Which of the following commands achieves this?**

Options are :

* *Set the '--cpuset-cpus' flag of the 'dockerd' process to the value 'even-spread'*
* *Set the '--cpu-quota' flag to '1.3' on one container and '2,4' on the other container.*
* *Set the '--cpuset-cpus' flag to '.5' on both containers*
* *Set the '--cpuset-cpu's flag to '1.3' on one container and '2.4' on the other container.*

**Answer :**Set the '--cpuset-cpus' flag to '.5' on both containers

**What are the two types of docker swarm services?**

Options are :

* *replicated and local services*
* *replicated and global services*
* *local and global services*
* *distributed and replicated services*

**Answer :**replicated and global services

**Which of the following commands will ensure that overlay traffic between service tasks is encrypted?**

Options are :

* *docker network create -d overlay -o encrypted=true*
* *docker service create --network --secure*
* *docker service create --network --encrypted*
* *docker network create -d overlay --secure*

**Answer :**docker network create -d overlay -o encrypted=true

**An application image runs in multiple environments, and each environment uses different certificates and ports, what is the best practice to deploy the containers?**

Options are :

* *Create a Dockerfile for each environment, specifying ports and Docker secrets for certificates.*
* *Create a Dockerfile for each environment, specifying ports and ENV variables for certificates.*
* *Create a config file for each environment.*
* *Create images that contain the specific configuration for every environment.*

**Answer :**Create a config file for each environment.

**Which of the following is true about using the '-P' option when creating a new container?**

Options are :

* *Docker binds each exposed container port to a random port on all the host's interface.*
* *Docker binds each exposed container port to a random port on a specified host interface.*
* *Docker binds each exposed container port with the same port on the host.*
* *Docker gives extended privileges to the container.*

**Answer :**Docker binds each exposed container port to a random port on all the host's interface.

**A server is running low on disk space. What command can be used to check the disk usage of images, containers, and volumes for Docker engine?**

Options are :

* *'docker system df'*
* *'docker system prune'*
* *'docker system ps'*
* *'docker system free'*

**Answer :**'docker system df'

**Which network driver type is best when you need multiple containers to communicate on the same Docker host? A.  B.  C.**

Options are :

* *User-defined bridge networks*
* *Host networks*
* *Macvlan networks*
* *Overlay networks*

**Answer :**User-defined bridge networks

**Which of the following commands will create a swarm service which only listens on port 53 using the UDP protocol?**

Options are :

* *docker service create --name dns-cache -p 53:53 --service udp dns-cache*
* *docker service create --name dns-cache -p 53:53/udp dns-cache*
* *docker service create --name dns-cache -p 53:53 --udp dns-cache*
* *docker service create --name dns-cache -p 53:53 --constraint networking-protocol-udp=true dns-cache*

**Answer :**docker service create --name dns-cache -p 53:53/udp dns-cache

**Which of the following is NOT true about Raft (docker consensus algorithm)? A. B.  C. D.**

Options are :

* *If a quorum is not reached, the system will not process any more requests to schedule additional tasks*
* *Raft tolerates up to (N-2)/2 failures*
* *Raft requires a majority or quorum of (N/2) + 1 members*
* *If a quorum is not reached, the existing tasks will keep running*

**Answer :**Raft tolerates up to (N-2)/2 failures

**Which of the following statements is false?**

Options are :

* *Containers can NOT be attached and detached from user-defined networks on the fly*
* *User-defined bridges provide better isolation and interoperability between containerized applications*
* *Linked containers on the default bridge network share environment variables*
* *Each user-defined network creates a configurable bridge*

**Answer :**Containers can NOT be attached and detached from user-defined networks on the fly

**What is the docker command to add a network to a service?**

Options are :

* *docker service add-network*
* *docker service update --network-add*
* *docker service set --add-network*
* *docker service modify --add-network*

**Answer :**docker service update --network-add

**What are the two types of docker swarm services?**

Options are :

* *replicated and global services*
* *replicated and local services*
* *distributed and replicated services*
* *local and global services*

**Answer :**replicated and global services

**What is the correct order to upgrade a Docker cluster?**

Options are :

* *Upgrade engine and kernel, UCP, and then DTR*
* *Upgrade UCP, DTR, then engine and kernel*
* *Upgrade DTR, UCP, then engine and kernel*
* *Upgrade engine and kernel, DTR, and then UCP*

**Answer :**Upgrade engine and kernel, UCP, and then DTR

**The output of which command can be used to find the architecture and operating system an image is compatible with?**

Options are :

* *docker image ls*
* *docker image inspect --filter {{.Architecture}} {{.OS}} '*
* *docker image inspect --format {{.Architecture}} {{.OS}} '*
* *docker image info*

**Answer :**docker image inspect --format {{.Architecture}} {{.OS}} '

**You have created a Docker bridge network on a host with three containers attached, how do you make this containers accessible outside of the host?**

Options are :

* *Use --link to access the containers on the bridge network*
* *Use network connect to access the containers on the bridge network*
* *Use network attach to access the containers on the bridge network.*
* *Use either EXPOSE or --publish to access the containers on the bridge network*

**Answer :**Use either EXPOSE or --publish to access the containers on the bridge network

**A host machine has four CPUs available and two running containers. The sysadmin would like to assign two CPUs to each container. Which of the following commands achieves this?**

Options are :

* *Set the '--cpuset-cpus' flag to '.5' on both containers*
* *Set the '--cpuset-cpu's flag to '1.3' on one container and '2.4' on the other container.*
* *Set the '--cpu-quota' flag to '1.3' on one container and '2,4' on the other container.*
* *Set the '--cpuset-cpus' flag of the 'dockerd' process to the value 'even-spread'*

**Answer :**Set the '--cpuset-cpus' flag to '.5' on both containers

**Which of the Dockerfile options initializes a new build stage and sets the base image for subsequent instructions?**

Options are :

* *ONBUILD*
* *RUN*
* *FROM*
* *CMD*

**Answer :**FROM

**What is the docker command to connect a running container to an existing user-defined bridge?**

Options are :

* *docker network join*
* *docker network attach*
* *docker connect network*
* *docker network connect*

**Answer :**docker network connect

**What Dockerfile option EXPOSE does?**

Options are :

* *Expose defaults for an executing container*
* *Adds metadata to an image*
* *Label a container that will run as an executable*
* *Informs Docker that the container listens on the specified network ports at runtime*

**Answer :**Informs Docker that the container listens on the specified network ports at runtime

**What is the docker command to update an existing service?**

Options are :

* *docker service change*
* *docker service modify*
* *docker service update*
* *docker service config*

**Answer :**docker service update

**Which of the following is NOT one of the 3 main Docker Container Network Model components?**

Options are :

* *Endpoint*
* *Routing*
* *Network*
* *Sandbox*

**Answer :**Routing

**What is the docker command to add or update a published port?**

Options are :

* *docker service update --publish-add*
* *docker service modify --add-update-port*
* *docker service update --publish-port*
* *docker service set --add-port*

**Answer :**docker service update --publish-add

**What is the docker run option to publish a port so that an application is accessible externally?**

Options are :

* *docker run --expose*
* *docker run --publish*
* *docker run --publish-port*
* *docker run --open-port*

**Answer :**docker run --publish

**Which network driver type is best when you are migrating from a VM setup or need your containers to look like physical hosts on your network, each with a unique MAC address?**

Options are :

* *Host networks*
* *Macvlan networks*
* *Overlay networks*
* *User-defined bridge networks*

**Answer :**Macvlan networks

**What is the recommended approach to set storage driver?**

Options are :

* *Use --storage-driver flag when running dockerd*
* *Set the "storage-driver" option in the daemon.json file*

**Answer :**Set the "storage-driver" option in the daemon.json file

**What is the docker command to increase number of replicas?**

Options are :

* *docker service increase*
* *docker service build*
* *docker service scale*
* *docker service replica*

**Answer :**docker service scale

**From a DevOps process standpoint, it is best practice to keep changes to an application in version control. Which of the following will allow changes to a docker Image to be stored in a version control system?**

Options are :

* *docker save*
* *A docker file*
* *A docker-compose.yaml file*
* *docker commit*

**Answer :**docker commit

**What is the purpose of multi-stage builds?**

Options are :

* *Optimizing images by copying artifacts selectively from previous stages*
* *Better caching when building Docker images*
* *Faster image builds by allowing parallel execution of Docker builds*
* *Better logical separation of Dockerfile instructions for better readability*

**Answer :**Optimizing images by copying artifacts selectively from previous stages

**What is the docker command to add a node to a swarm?**

Options are :

* *docker swarm join*
* *docker swarm add-node*
* *docker join swarm*
* *docker swarm create-node*

**Answer :**docker swarm join

**What is the docker command to create a bridge network?**

Options are :

* *docker network add*
* *docker network create*
* *docker network deploy*
* *docker create network*

**Answer :**docker network create

**What is the docker command to add a placement preference?**

Options are :

* *docker service update --placement-constraint-add*
* *docker service update --pref-add*
* *docker service update --placement-pref-add*
* *docker service update --constraint-add*

**Answer :**docker service update --placement-pref-add

**Which of the following are types of namespaces used by Docker to provide isolation? (Choose 2)**

Options are :

* *Authentication*
* *Network*
* *Host*
* *Storage*
* *Process ID*

**Answer :**Network Process ID

**You have just executed 'docker swarm leave' on a node. What command can be run on the same node to confirm it has left the cluster?**

Options are :

* *docker node ls*
* *docker system info*
* *docker system status*
* *docker node status*

**Answer :**docker system info

**What is the docker command to add a network to a service?**

Options are :

* *docker service update --constraint-add*
* *docker service update --network-add*
* *docker service modify --add-network*
* *docker service set --add-network*

**Answer :**docker service update --constraint-add

**What is the docker command to add or update a placement constraint?**

Options are :

* *docker service update --constraint-add*
* *docker service update --pref-add*
* *docker service update --placement-constraint-add*
* *docker service update --placement-pref-add*

**Answer :**docker service update --constraint-add

**Which of the following is NOT how to create an efficient image via a Dockerfile?**

Options are :

* *Use multi-stage builds*
* *Combine multiple applications into a single container*
* *Avoid installing unnecessary packages*
* *Start with an appropriate base image*

**Answer :**Combine multiple applications into a single container

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**Which of the following docker image commands display detailed information on one or more images?**

Options are :

* *docker image inspect*
* *docker image ls*
* *docker image history*
* *docker image detai*

**Answer :**docker image inspect

**Which of the Dockerfile options executes any commands in a new layer on top of the current image and commit the results?**

Options are :

* *FROM*
* *ONBUILD*
* *CMD*
* *RUN*

**Answer :**RUN

**Which of the Dockerfile options initializes a new build stage and sets the base image for subsequent instructions?**

Options are :

* *FROM*
* *ONBUILD*
* *CMD*
* *RUN*

**Answer :**FROM

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**What docker image prune command does?**

Options are :

* *Display detailed information on one or more images*
* *Remove unused images*
* *Remove one or more images*
* *Show the history of an image*

**Answer :**Remove unused images

**What does docker image rm command do?**

Options are :

* *Remove one or more images*
* *Show the history of an image*
* *Remove unused images*
* *Display detailed information on one or more images*

**Answer :**Remove one or more images

**Which?? command ??is?? used?? to? ?place ??an ??image?? into?? a?? registry?**

Options are :

* *docker commit*
* *docker tag*
* *docker push*
* *docker images*
* *docker pull*

**Answer :**docker push

[Docker Certified Associate (DCA) Practice Exams Set 16](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-16)

**Which ??network ??allows ??Docker?? Trusted?? Registry ??components?? running ??on?? different?? nodes ??to communicate ??and ??replicate?? Docker?? Trusted?? Registry?? data?**

Options are :

* *dtr-ol*
* *dtr-hosts*
* *dtr-br*
* *dtr-vlan*

**Answer :**dtr-ol

**After creating a new service names 'http", you notice that the new service is not registering as healthy. How do you view the list of historical tasks for that service by using the command line ?**

Options are :

* *docker inspect http'*
* *docker servoce inspect http'*
* *docker service ps http'*
* *docker ps http'*

**Answer :**docker service ps http'

**Which of the following commands is used to display system-wide Docker configuration on a host?**

Options are :

* *docker info*
* *docker status*
* *docker inspect*
* *docker system*

**Answer :**docker info

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**Following the principle of least privilege, which of the following methods can be used to securely grant acess to the specific use to communicate to a Docker engine? (select two)**

Options are :

* *Utilize the '--host0.0.0.0:2375' option to the Docker daemon to listen on port 2375 over TCP on all interfaces*
* *Utilize openssl to create TLS client and server certificates, configuring the Docker engine to use with mutual TLS over TCP*
* *Utilize the '--host 127.0.0.1:2375' option to the Docker daemon to listen on port 2375 over TCP on localhsot*
* *Give the user root access to the server to allow them to run Docker commands as root*
* *Add the use to the 'doker' group ont he server or specify the group with the '--group' Docker daemon option*

**Answer :**Utilize openssl to create TLS client and server certificates, configuring the Docker engine to use with mutual TLS over TCP Add the use to the 'doker' group ont he server or specify the group with the '--group' Docker daemon option

**Which of the following is supported by control group ?**

Options are :

* *Manage certificate*
* *Collect net*
* *Limit CPU usage within a container*
* *Isolate processess in a container*

**Answer :**Limit CPU usage within a container

**In a Docker Trusted Registry, how would a user prevent an image, for examle 'nginx:latest' from being overwritten by another user with push access to the repository ?**

Options are :

* *Tag the image with 'nginx:immutable'*
* *Remive push access from all other users*
* *User the DTR web UI to make the tag immutable*
* *Keep a backup copy of the image on another repository*

**Answer :**User the DTR web UI to make the tag immutable

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**Which of the following is supported by control groups?**

Options are :

* *Manage certificates*
* *Collect net*
* *Limit CPU usage within acontainer*
* *Isolate processes in acontainer*

**Answer :**Limit CPU usage within acontainer

**What is the purpose of Dockers Content Trust?**

Options are :

* *Signing and verification of image tags*
* *Enabling mutual TLS between the Dockers client and server*
* *Dockers registry TLS verification and encryption*
* *Indicating an image on DockersHub is an officialimage*

**Answer :**Signing and verification of image tags

**What is the purpose of a client bundle in the Universal Control Plane?**

Options are :

* *Authenticate a user using client certificates to the Universal Control Plane*
* *Provide a new user instructions for how to login to the Universal Control Plane*
* *Provide a user with a Dockers client binary compatible with the Universal Control Plane*
* *Group multiple users in a team in the Universal Control Plane*

**Answer :**Authenticate a user using client certificates to the Universal Control Plane

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**When using the Dockersclient to push an image to a registry, what environment variable is used to instruct the client to perform signing of the image?**

Options are :

* *DOCKER\_CONTENT\_TRUST=1*
* *DOCKER\_IMAGE\_SIGN=1*
* *DOCKER\_PUSH\_SIGN=1*
* *NOTARY\_ENABLE=1 Correct*

**Answer :**DOCKER\_CONTENT\_TRUST=1

**You have created a Docker sbridge network on a host with three containers attached, how do you make this containers accessible outside of the host?**

Options are :

* *Use network attach to access the containers on the bridgenetwork*
* *Use either EXPOSE or --publish to access the containers on the bridgenetwork*
* *Use network connect to access the containers on the bridgenetwork*
* *Use --link to access the containers on the bridge network Correct*

**Answer :**Use network connect to access the containers on the bridgenetwork

**Which of these swarm manager configurations will cause the cluster to be in a lost quorum state?**

Options are :

* *4 managers of which 2 are healthy*
* *1 manager of which 1 is healthy*
* *3 managers of which 2 are healthy*
* *5 managers of which 3 are healthy*

**Answer :**4 managers of which 2 are healthy

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**Which of the following commands starts a Redid container and configures it to always restart unless it is explicitly stopped or Dockers is restarted?**

Options are :

* *docker run -d --restart-policy unless-stopped redid'*
* *docker run -d --restart omit-stopped redis'*
* *docker run -d --restart unless-stopped redis'*
* *docker run -d --failure omit-stopped redis'*

**Answer :**docker run -d --restart-policy unless-stopped redid'

**After creating a new service named 'http', you notice that the new service is not registering as healthy. How do you view the list of historical tasks for that service by using the command line?**

Options are :

* *docker inspect http'*
* *docker service inspect http'*
* *docker service ps http'*
* *docker ps http'*

**Answer :**docker service inspect http'

**Which flag for a service would allow a container to consume more than 2 GB of memory only when there is no memory contention but would also prevent a container from consuming more than 4GB of memory, in any case?**

Options are :

* *--limit-memory 2GB --reserve-memory 4GB*
* *--limit-memory 4GB --reserve-memory 2GB*
* *--memory-swap 2GB --limit-memory 4GB*
* *--memory-swap 4GB --limit-memory 2GB*

**Answer :**--limit-memory 4GB --reserve-memory 2GB

[Docker Certified Associate (DCA) Practice Exams Set 10](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-10)

**Which ??of ??the?? following?? is?? not?? an ??endpoint ??exposed?? by?? Docker?? Trusted?? Registry?? that?? can ??be used?? to?? assess?? the ??health?? of ??a ??Docker?? Trusted ??Registry ??replica?**

Options are :

* */health*
* */nginx\_status*
* */api/v0/meta/cluster\_status*
* */replica\_status*

**Answer :**/replica\_status

**Which?? of ??th e??following ??endpoints ??exposed ??by ??Docker?? Trusted ??Registry?? can?? be? ?used ??to assess ??the ??health ??of ??a ??Docker ??Trusted ??Registry ??replica?**

Options are :

* */health*
* */api/health*
* */replica\_status*
* */nginx/health*

**Answer :**/health

**One?? of ??your ??developers ??is ??trying ??to ??push ??an ??image ??to ??the ??registry? ?(dtr.example.com).??The push ??fails ??with ??the ??error?? "denied :? ?requested? ?access ??to ??the ??resource ??is? ?denied".??What ??should ??you verify ??the ??user ??has ??completed?**

Options are :

* *docker login -u -p dtr.example.com*
* *docker registry login -u username -p dtr.example.com*
* *docker push / dtr.example.com*
* *docker images login -u -p dtr.example.com*

**Answer :**docker login -u -p dtr.example.com

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**Which command is used to place an image into a registry?**

Options are :

* *docker commit*
* *docker tag*
* *docker push*
* *docker images*
* *docker pull*

**Answer :**docker push

**Which network allows Docker Trusted Registry components running on different nodes to communicate and replicate Docker Trusted Registry data?**

Options are :

* *dtr-ol*
* *dtr-hosts*
* *dtr-br*
* *dtr-vlan*

**Answer :**dtr-ol

**Which of the following is not an endpoint exposed by Docker Trusted Registry that can be used to assess the health of a Docker Trusted Registry replica?**

Options are :

* */health*
* */nginx\_status*
* */api/v0/meta/cluster\_status*
* *replica\_status*

**Answer :**replica\_status

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Which of the following endpoints exposed by Docker Trusted Registry can be used to assess the health of a Docker Trusted Registry replica?**

Options are :

* */health*
* */api/health*
* */replica\_status*
* */nginx/health*

**Answer :**/health

**You have been asked to backup the swarm state on a Linux installation. By default, where do Docker manager nodes store the swarm state and manager logs?**

Options are :

* */var/run/docker/swarm*
* */var/lib/docker/swarm*
* */etc/docker/swarm*
* */run/docker/swarm*

**Answer :**/var/lib/docker/swarm

**Which of the following will put the Docker engine into debug mode?**

Options are :

* *echo '{"debug": true}' > /var/lib/docker/daemon.json ; sudo kill -HUP*
* *echo '{"debug": true}' > /etc/docker/config.json ; sudo kill -HUP*
* *echo '{"debug": true}' > /var/lib/docker/config.json ; sudo kill -HUP*
* *echo '{"debug": true}' > /etc/docker/daemon.json ; sudo kill -HUP*

**Answer :**echo '{"debug": true}' > /etc/docker/daemon.json ; sudo kill -HUP

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**How do you deploy 4 new instances of nginx with a single command?**

Options are :

* *docker service create --replicas 4 --name myservice nginx*
* *docker service create --instances 4 --name myservice nginx*
* *docker service scale myservice=4 nginx*
* *docker service scale --replicas 4 --name myservice nginx*

**Answer :**docker service create --replicas 4 --name myservice nginx

**You are using self-signed UCP certs and have a second DNS name that points to your internal controllers. When installing UCP, which flag should you use to add this additional name?**

Options are :

* *--internal-server-cert*
* *--dns*
* *--san*
* *-external-server-cert*

**Answer :**--san

**Which of the following commands will provide a list of all Docker networks and their drivers currently configured on the Docker host? Choose the correct answer:**

Options are :

* *docker system --list-networks*
* *docker network ls*
* *docker info --networks*
* *docker system inspect networks*

**Answer :**docker network ls

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Which of the following resource limitation options, when added to a container instantiation, is representative of a 'Control Group (cgroup)?(Choose all that apply) Choose the 2 correct answers:**

Options are :

* *--memory=[amount b/k/m/g]*
* *-end=[#]*
* *--limit=[#]*
* *--cpus=[value]*

**Answer :**--memory=[amount b/k/m/g] --cpus=[value]

**Which of the following Docker client commands will display all of the base images available for local containers to be instantiated from? Choose the correct answer:**

Options are :

* *docker list*
* *docker images*
* *docker list all*
* *None of the above.*

**Answer :**docker images

**You have received a 'docker inspect' report that appears to be formatted as one long line. What option can you instruct your staff to use next time in order to clean up the format into something more readable? Choose the correct answer:**

Options are :

* *--format="{?{.Structure.To.Review}}" [objectid/name]*
* *--readable*
* *--human*
* *--pretty*

**Answer :**--format="{?{.Structure.To.Review}}" [objectid/name]

[Docker and Containers: Commands Set 3](https://chercher.tech/docker-certification/docker-and-containers-commands-set-3)

**When querying the configuration of a running container called 'myweb', which command would display the container's IP Address?**

Options are :

* *docker run inspect myweb | grep IP*
* *docker myweb inspect | grep IP*
* *docker inspect myweb | grep IPAddress*
* *None of the Above*

**Answer :**docker inspect myweb | grep IPAddress

**When instantiating a docker container called 'myweb' that is running an Apache web server on port 80 by default within it, you can allow direct access to the container service via the host's IP by redirecting the container port 80 to the host port 80. Which command will accomplish this? Choose the correct answer:**

Options are :

* *docker run --name myweb -P 80/80 httpd/latest*
* *docker run -d --name myweb -P 80 httpd:latest*
* *docker run -d --name myweb -p 80:80 httpd:latest*
* *None of the above.*

**Answer :**docker run -d --name myweb -p 80:80 httpd:latest

**Recent problems with the service called 'my\_api' in your cluster has caused your development team to request its removal from the cluster while they address the problems. Which command will you need to execute to remove it? Choose the correct answer:**

Options are :

* *docker swarm --remove=my\_api*
* *docker rm my\_api*
* *docker swarm remove my\_api*
* *docker service rm my\_api*

**Answer :**docker service rm my\_api

[Docker and Containers: Commands Set 4](https://chercher.tech/docker-certification/docker-and-containers-commands-set-4)

**One of the nodes in your existing cluster is logging errors related to the storage subsystem it exists on in your infrastructure and needs to be taken offline. Which command will allow you to gracefully remove the swarm it is a member of when executed ON the node itself?**

Options are :

* *docker swarm unregister*
* *docker swarm leave*
* *docker swarm rm*
* *None of the above*

**Answer :**docker swarm leave

**Which Docker command is used to remove a base image, even if that image has containers that are based on it?**

Options are :

* *docker rmi [image name] --force*
* *docker rm [image name] --force*
* *docker remove [image name]*
* *None of the above.*

**Answer :**docker rmi [image name] --force

**If you want an instantiated container named 'myweb' to have a path inside of it called '/my/data/volume', which command would accomplish this?**

Options are :

* *docker run -d --name myweb -v /local/dir:/my/data/volume httpd:latest*
* *docker run -d --name myweb --volumes /local/dir:/my/data/volume httpd:latest*
* *docker run -d --name myweb -V /my/data/volume httpd:latest*
* *None of the above.*

**Answer :**docker run -d --name myweb -V /my/data/volume httpd:latest

**Which of the following commands is used to create config from a file or STDIN?**

Options are :

* *docker config create (Correct)*
* *docker run --config*
* *docker create --config*
* *docker container create --config*

**Answer :**docker config create

**What is the default format of docker inspect output?**

Options are :

* *xml*
* *html*
* *json (Correct)*
* *yaml*

**Answer :**json

**Services using the routing mesh are running in the \_\_\_\_\_\_\_\_\_\_\_.**

Options are :

* *DNSRR mode*
* *Global mode*
* *Virtual IP mode (Correct)*
* *Swarm mode*

**Answer :**Virtual IP mode

[Docker Certified Associate (DCA) Practice Exams Set 14](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-14)

**Which of the following is NOT backed up when performing a Docker Trusted backup operation?**

Options are :

* *Repository metadata*
* *Image blobs (Correct)*
* *DTR configurations*
* *Access control to repos and images*

**Answer :**Image blobs

**Which of the following is NOT how to create an efficient image via a Dockerfile?**

Options are :

* *Start with an appropriate base image*
* *Use multi-stage builds*
* *Avoid installing unnecessary packages*
* *Combine multiple applications into a single container (Correct)*

**Answer :**Combine multiple applications into a single container

**Which of the following constitutes a production-ready devicemapper configuration for the docker engine?**

Options are :

* *Format a partition with the xfs and mount it at '/var/lib/docker'*
* *Utilize the '--storage-opt dm.directlvm\_device' Docker daemon option, specifying a block device. (Correct)*
* *Nothing, devicemapper comes ready for production usage out of the box.*
* *Create a volume group in devicemapper and utilize the '--dm.thinpooldev' Docker daemon option, specifying the volume group.*

**Answer :**Utilize the '--storage-opt dm.directlvm\_device' Docker daemon option, specifying a block device.

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**Which command will drain a node that had a task assigned to it?**

Options are :

* *docker node update --role drain*
* *docker node update drain*
* *docker node demote drain*
* *docker node update --availability drain (Correct)*

**Answer :**docker node update --availability drain

**Which one of the following commands will show a list of volumes for a specific container?**

Options are :

* *'docker container inspect nginx' (Correct)*
* *'docker container logs nginx --volumes'*
* *'docker volume logs nginx --containers'*
* *'docker volume inspect nginx'*

**Answer :**'docker container inspect nginx'

**Which of the following is the correct command to store an image to a registry?**

Options are :

* *docker store [OPTIONS] NAME[:TAG]*
* *docker push [OPTIONS] NAME[:TAG] (Correct)*
* *docker upload [OPTIONS] NAME[:TAG]*
* *docker commit [OPTIONS] NAME[:TAG]*

**Answer :**docker push [OPTIONS] NAME[:TAG]

[Docker Certified Associate (DCA) Practice Exams Set 11](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-11)

**What will be the outcome of docker cp command, if the SRC\_PATH is a directory and the DEST\_PATH is a file?**

Options are :

* *An error will occur that it cannot copy a directory to a file. (Correct)*
* *DEST\_PATH will be created as a directory and all the contents of the SRC\_PATH will be copied into this directory.*
* *The contents in DEST\_PATH will be overwritten by the source file's content.*
* *The contents of each file of SRC\_PATH will be copied into separate files into the DEST\_PATH.*

**Answer :**An error will occur that it cannot copy a directory to a file.

**What is the docker command to add a node to a swarm?**

Options are :

* *docker swarm add-node [OPTIONS] HOST:PORT*
* *docker swarm create-node [OPTIONS] HOST:PORT*
* *docker swarm join [OPTIONS] HOST:PORT (Correct)*
* *docker join swarm [OPTIONS] HOST:PORT*

**Answer :**docker swarm join [OPTIONS] HOST:PORT

**Docker secrets are available for standalone containers as well as for swarm services. True or False ?**

Options are :

* *True*
* *False (Correct)*

**Answer :**False

[Docker and Containers: Commands Set 4](https://chercher.tech/docker-certification/docker-and-containers-commands-set-4)

**Besides the readonly image and the writable container layer, which other ways can containers take up disk space? (Select all that apply)**

Options are :

* *Volumes and bind mounts used by the container. (Correct)*
* *Disk used for the container's configuration files, which are tipically small. (Correct)*
* *Data stored in tmpfs*
* *Disk space used for log files if you use the json-file logging driver. (Correct)*

**Answer :**Volumes and bind mounts used by the container. Disk used for the container's configuration files, which are tipically small. Disk space used for log files if you use the json-file logging driver.

**Which of the following is not a supported logging driver?**

Options are :

* *syslog*
* *none*
* *awslogs*
* *azurelogs (Correct)*

**Answer :**azurelogs

**How many cgroups are created for each container in Docker?**

Options are :

* *1 (Correct)*
* *4*
* *3*
* *2*

**Answer :**1

[Docker Certified Associate (DCA) Practice Exams Set 11](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-11)

**Which instruction sets the working directory for any RUN, CMD, ENTRYPOINT, COPY and ADD instructions that follow it in the Dockerfile?**

Options are :

* *VOLUME*
* *MOUNT*
* *WORKDIR (Correct)*
* *DIR*

**Answer :**WORKDIR

**Which of the following commands is used to generate a new root CA certificate and root CA key for the swarm cluster?**

Options are :

* *docker swarm ca --ca-generate*
* *docker swarm ca*
* *docker swarm ca --ca-generate --rotate*
* *docker swarm ca --rotate (Correct)*

**Answer :**docker swarm ca --rotate

**What are the two types of UCP client bundles?**

Options are :

* *Docker UCP client bundles and DTR client bundles*
* *Admin user certificate bundles and user certificate bundles*
* *Ops client bundles and dev client bundles*
* *Docker CLI bundles and Docker web UI bundles*

**Answer :**Admin user certificate bundles and user certificate bundles

**Which of the following can be used to define what command gets executed when running a container?**

Options are :

* *Both of the above*
* *CMD*
* *ENTRYPOINT*

**Answer :**CMD

**Docker security scan result is available in both UCP and DTR. True or false?**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**Which of the following instructions can be used to specify variables that are available to the RUN instruction?**

Options are :

* *Both of the above*
* *ENV*
* *ARG*

**Answer :**ARG

**It is OK to use root directory such as / as the PATH for building the docker image.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**Which of the following instruction actually runs a command and commits the result during the time of building the image?**

Options are :

* *RUN*
* *CMD*

**Answer :**RUN

**Docker build is run by \_\_\_\_\_\_\_\_\_.**

Options are :

* *docker cli*
* *docker daemon*

**Answer :**docker daemon

**Docker image can be saved in multiple repositories after the build is done.**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**Where do you create Docker Role Based Access Controls (RBAC)?**

Options are :

* *Docker Machine*
* *Docker Trusted Registry*
* *Docker Compose*
* *Universal Control Plane*

**Answer :**Universal Control Plane

**What is the docker command to backup the UCP?**

Options are :

* *docker/ucp backup*
* *docker backup ucp*

**Answer :**docker/ucp backup

**Dockerfile option EXPOSE publish the port to external systems. True or false?**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**What is a grant made up of in Docker's Role Based Access Controls (RBAC)? (Select three)**

Options are :

* *Resource collection*
* *Role*
* *Certificate*
* *Subject*

**Answer :**Resource collection Role Subject

**Which of the Dockerfile options initializes a new build stage and sets the base image for subsequent instructions?**

Options are :

* *CMD*
* *ONBUILD*
* *FROM*
* *RUN*

**Answer :**FROM

**Which of the following instruction can primarily be used for defining default arguments for an ENTRYPOINT command.**

Options are :

* *RUN*
* *CMD*

**Answer :**CMD

**How to configure the default logging driver?**

Options are :

* *Set the "log-driver" option in the daemon.json file*
* *Use --log-driver flag*

**Answer :**Set the "log-driver" option in the daemon.json file

**Which of the following tool to use to create users and teams?**

Options are :

* *Docker Trusted Registry (DTR)*
* *Docker Compose*
* *Docker Machine*
* *Universal Control Plane (UCP)*

**Answer :**Universal Control Plane (UCP)

**A docker file must be named as Dockerfile.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**What is the difference between UCP workers and managers?**

Options are :

* *ucp-agent service automatically starts serving all UCP components in manager node, and only a proxy service in worker node*
* *ucp-agent service automatically starts serving all UCP components in worker node, and only a proxy service in manager node*

**Answer :**ucp-agent service automatically starts serving all UCP components in manager node, and only a proxy service in worker node

**Which of the Dockerfile options executes any commands in a new layer on top of the current image and commit the results?**

Options are :

* *FROM*
* *RUN*
* *CMD*
* *ONBUILD*

**Answer :**RUN

**Docker reuse intermediate images for accelerating the docker build process.**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**Where is the option to integrate Docker Enterprise with LDAP?**

Options are :

* *Universal Control Plane*
* *Docker Machine*
* *Docker Trusted Registry*
* *Docker Compose*

**Answer :**Universal Control Plane

**What Dockerfile option EXPOSE does?**

Options are :

* *Adds metadata to an image*
* *Informs Docker that the container listens on the specified network ports at runtime*
* *Label a container that will run as an executable*
* *Expose defaults for an executing container*

**Answer :**Informs Docker that the container listens on the specified network ports at runtime

**You can monitor the status of UCP by using the web UI or the CLI. True or false?**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**What Dockerfile option LABEL does?**

Options are :

* *Provide defaults for an executing container*
* *Tells Docker how to test a container to check that it is still working*
* *Label a container that will run as an executable*
* *Adds metadata to an image*

**Answer :**Adds metadata to an image

**The first instruction in a dockerfile must be?**

Options are :

* *EXPOSE*
* *CMD*
* *FROM*
* *RUN*

**Answer :**FROM

**Which products are included with a Docker EE software subscription? (select three)**

Options are :

* *Docker Hub*
* *Docker Universal Control Plane*
* *Docker Engine with enterprise-grade support*
* *Docker Trusted Registry*
* *Docker Swarm*

**Answer :**Docker Universal Control Plane Docker Engine with enterprise-grade support Docker Trusted Registry

**When running network in 'host' mode you can override the hostname of the container using which option of 'docker run'?**

Options are :

* *--name*
* *--hostname*
* *--name*
* *-host*

**Answer :**--hostname

**What is the default network driver used when one is not specified?**

Options are :

* *none*
* *macvlan*
* *overlay*
* *bridge*
* *host*

**Answer :**bridge

**Which technology allows Docker Engine to share available hardware resources to containers and optionally enforce limits and constraints?**

Options are :

* *Control Groups*
* *HyperVisor*
* *Hardware Abstraction*
* *Virtualization Layers*

**Answer :**Control Groups

**Which type of mount is a good choice when you need to back up, restore, or migrate data from one Docker host to another?**

Options are :

* *tempfs*
* *bind mounts*
* *volumes*
* *Regular*

**Answer :**volumes

**To decrease the image pull time for geographically dispersed users you can configure which DTR option?**

Options are :

* *DTR CDN*
* *DTR cache*
* *DTR Edge*
* *DTR Local Registry*

**Answer :**DTR cache

**Which of the following make up container format? (select three)**

Options are :

* *Docker control plane*
* *Docker Daemon*
* *UnionFS*
* *Control Groups*
* *Namespaces*

**Answer :**UnionFS Control Groups Namespaces

**Arrange the copy-on-write operation steps below in the correct sequence;**

**A) Any modifications are made to this copy of the file, and the container cannot see the read-only copy of the file that exists in the lower layer.**

**B) Perform a copy\_up operation on the first copy of the file that is found, to copy the file to the container's writable layer.**

**C) Search through the image layers for the file to update. The process starts at the newest layer and works down to the base layer one layer at a time. When results are found, they are added to a cache to speed future operations.**

Options are :

* *B, C, A*
* *C, B, A*
* *A, B, C*
* *B, A, C*

**Answer :**C, B, A

**Which command is used to create a swarm**

Options are :

* *docker init swarm*
* *docker swarm create*
* *docker swarm init*
* *docker swarm start*

**Answer :**docker swarm init

**A \_\_\_\_ is an instance of the Docker engine participating in the swarm.**

Options are :

* *Node*
* *Service*
* *Container*
* *Server*

**Answer :**Node

**Which format is the output returned, when the --pretty flag is not specified for the docker service inspect command?**

Options are :

* *yaml*
* *json*
* *txt*
* *xml*

**Answer :**json

**Which availability mode needs to be set on a node when you need to perform maintenance on a node?**

Options are :

* *MAINTENANCE*
* *EVACUATE*
* *OFFLINE*
* *DRAIN*

**Answer :**DRAIN

**If a container has files or directories in the directory to be mounted, the directory's contents are copied into the volume and the volume is mounted**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**Tasks are initialized in which state?**

Options are :

* *INIT*
* *STARTING*
* *NEBRASKA*
* *NEW*

**Answer :**NEW

**When you're starting the docker daemon manually and see an error like the one below, what should you do?**

**unable to configure the Docker daemon with file /etc/docker/daemon.json:**

**the following directives are specified both as a flag and in the configurationfile: hosts: (from flag: [unix:///var/run/docker.sock], from file: [tcp://127.0.0.1:2376])**

Options are :

* *Restart your host to resolve the conflict*
* *Adjust the flags you're using to start the daemon or modify the daemon.json to remove the conflict*
* *Verify that port 2376 is open*
* *Ensure the host is accessible on the network and try again*

**Answer :**Adjust the flags you're using to start the daemon or modify the daemon.json to remove the conflict

**The core component of UCP is a globally-scheduled service called?**

Options are :

* *ucp-agent*
* *ucp-manager*
* *ucp-daemon*
* *ha-agent*

**Answer :**ucp-agent

**Which Docker feature allows operations with a remote Docker registry to enforce client-side signing and verification of image tags?**

Options are :

* *Docker Content Trust*
* *It is not possible to enforce client-side signing and verification of image tags.*
* *Docker Signing Authority*
* *Docker Certificate Checker*

**Answer :**Docker Content Trust

**You can use local file system if you're deploying DTR with high-availability.**

Options are :

* *FALSE*
* *TRUE*

**Answer :**FALSE

**Without the quorum, administrative tasks are not possible, including scaling or updating services and joining or removing nodes from the swarm.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**Which flag of 'docker service create' and 'docker service update' configures the time delay between updates to a service task or sets of tasks?**

Options are :

* *-update-wait*
* *--update-pause*
* *--update-delay*
* *--wait-delay*

**Answer :**--update-delay

**You can create a volume dynamically using which command?**

Options are :

* *docker create volume*
* *docker make volume*
* *Volumes cannot be created after container creation*
* *docker volume create*

**Answer :**docker volume create

**Which docker feature allows you to control whether your containers start automatically when they exit, or when Docker restarts, and that they are started in the correct order**

Options are :

* *startup rules*
* *restart policies*
* *placement rules*
* *startup policies*

**Answer :**restart policies

**Docker's default container format is called?**

Options are :

* *dockertainer*
* *libcontainer*
* *dockerformat*
* *containerd*

**Answer :**libcontainer

**If the manager in a single-manager swarm fails, your services continue to run, but you need to create a new cluster to recover.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**The docker daemon is called?**

Options are :

* *docker\_d*
* *dockerd*
* *docker\_engine*
* *docker\_run*

**Answer :**dockerd

**Docker regularly cleans up unused objects, such as images, containers, volumes, and networks**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**Which of the following commands can be used to create a readonly volume? (select two)**

Options are :

* *docker run -d --name test --mount source=testvol,target=/testvol,readonly ubuntu:latest*
* *docker volume create testvol*
* *docker run -d --name test -v testvol:/testvol:ro ubuntu:latest*
* *docker volume make readonly testvol*

**Answer :**docker run -d --name test --mount source=testvol,target=/testvol,readonly ubuntu:latest docker run -d --name test -v testvol:/testvol:ro ubuntu:latest

**To bypass the routing mesh, you can start a service using DNS Round Robin (DNSRR) mode,**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**Which command can you use to clean up multiple types of objects (images, containers, and networks) at once?**

Options are :

* *docker system purge*
* *docker cleanup*
* *docker clean all*
* *docker system prune*

**Answer :**docker system prune

**Which instruction specifies the Base Image from which you are building?**

Options are :

* *FROM*
* *CMD*
* *RUN*
* *EXPOSE*

**Answer :**FROM

**Docker Engine uses which file system to provide the building blocks for containers?**

Options are :

* *NTFS*
* *EXT2*
* *UnionFS*
* *XFS*

**Answer :**UnionFS

**After joining a swarm, machines that are running Docker, are referred to as?**

Options are :

* *Pods*
* *Nodes*
* *Instances*
* *Hosts*

**Answer :**Nodes

**Docker EE is available on multiple platforms. Which of the following are not valid hardware platforms to run Docker EE?**

Options are :

* *IBM Z (s390x)*
* *Sun/Oracle SPARC*
* *X86\_64/AMD 64*
* *IBM Power (ppc64le)*

**Answer :**Sun/Oracle SPARC

**Build-time variable values are not visible to anyone so it is OK to pass secret keys, user credentials, etc**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**Single sign-on (SSO) with UCP can only be configured at installation**

Options are :

* *FALSE*
* *TRUE*

**Answer :**FALSE

**DTR only allows deleting images if that image hasn't been signed.**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**Which command is used to join a swarm as a worker?**

Options are :

* *docker swarm -j*
* *docker join the swarm*
* *docker worker init*
* *docker swarm join*

**Answer :**docker swarm join

**Which command can you run on a manager node to retrieve the join command for a worker?**

Options are :

* *docker swarm get-token worker*
* *docker swarm join worker*
* *docker swarm show join-token*
* *docker swarm join-token worker*

**Answer :**docker swarm join-token worker

**Which instruction copies new files, directories or remote file URLs from <src> and adds them to the filesystem of the image at the path <dest>?**

Options are :

* *ENV*
* *ADD*
* *LABEL*
* *TAG*

**Answer :**ADD

**Which command is used to create an overlay network that can be used with swarm services?**

Options are :

* *docker make overlay network 'network name'*
* *docker network create -d overlay 'network name'*
* *docker-network create 'network name'*
* *docker network 'network name' create -d overlay*

**Answer :**docker network create -d overlay 'network name'

**Which instruction is required if no executable is specified in the CMD instruction?**

Options are :

* *EXEC*
* *CMD*
* *ENTRYPOINT*
* *RUN*

**Answer :**ENTRYPOINT

**Which 'docker service update' flags are used to update the published ports of existing services? (select two)**

Options are :

* *-port-remove*
* *--publish-add*
* *--port-add*
* *--publish-rm*

**Answer :**--publish-add --publish-rm

**You can specify multiple labels for an object, but each key-value pair must be unique within an object.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**The devicemapper can only use a single block device when using direct-lvm mode.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**Which of the following is an advantage of volumes over bind mounts?**

Options are :

* *New volumes can have their content pre-populated by a container.*
* *You can manage volumes using Docker CLI commands or the Docker API.*
* *All of these are advantages of volumes over bind mounts*
* *Volumes can be more safely shared among multiple containers.*
* *Volumes are easier to back up or migrate than bind mounts.*

**Answer :**All of these are advantages of volumes over bind mounts

**Which flag should be specified for 'docker/dtr install' to configure DTR to have single sign-on (SSO) with UCP?**

Options are :

* *--dtr-external-url*
* *--url*
* *--sso-url*
* *--dtr-sso-url*

**Answer :**--dtr-external-url

**Which option allows you to override the default Docker directory (/var/lib/docker) on Linux?**

Options are :

* *docker-path*
* *install-root*
* *data-root*
* *docker-root*

**Answer :**data-root

**Which command should you run to show all the nodes in a swarm?**

Options are :

* *docker swarm list*
* *docker node ls*
* *docker node list*
* *docker swarm ls*

**Answer :**docker node ls

**Restart policies only apply to containers, not swarm services.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**Which command is used to remove a user-defined bridge network?**

Options are :

* *docker network 'network name' rm*
* *docker network rm 'network name'*
* *docker-network rm 'network name'*
* *docker delete network 'network name'*

**Answer :**docker network rm 'network name'

**To bypass the routing mesh, you must use the long --publish service and set mode to host**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**Which flag of 'docker service create' determines how many tasks are started for the service?**

Options are :

* *--tasks*
* *--numtasks*
* *--numjobs*
* *--replicas*

**Answer :**--replicas

**Which Docker Tool/Features is used to provision and manage multiple remote Docker hosts or Swarm Clusters?**

Options are :

* *Docker swarm*
* *Docker deploy*
* *Docker Machine*
* *Docker rollout*

**Answer :**Docker Machine

**Which two commands can get an image from a registry? (select two)**

Options are :

* *docker pull*
* *docker get*
* *docker download*
* *docker run*

**Answer :**docker pull docker run

**Which ports have to be opened to allow traffic to, and from, docker hosts that will be part of an overlay network? (select three)**

Options are :

* *TCP and UDP port 8999 for data transfer*
* *TCP port 2377 for cluster management communications*
* *TCP Port 1999 for heartbeats*
* *UDP port 4789 for overlay network traffic*
* *TCP and UDP port 7946 for communication among nodes*

**Answer :**TCP port 2377 for cluster management communications UDP port 4789 for overlay network traffic TCP and UDP port 7946 for communication among nodes

**Which storage driver uses block devices dedicated to Docker and operates at the block level, rather than the file level?**

Options are :

* *BlockDeviceMap*
* *OverlayFS*
* *devicemapper*
* *BlockDriver*

**Answer :**devicemapper

**It is possible to take a backup while the manager is running (a "hot" backup), but this is not recommended and your results are less predictable when restoring.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**By default manager nodes also run services as worker nodes, but you can configure them to run manager tasks exclusively and be manager-only nodes.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**Which command is used to promote a worker node to be a manager?**

Options are :

* *docker swarm promote*
* *docker node make manager*
* *docker node promote*
* *docker node upgrade*

**Answer :**docker node promote

**If you manually stop a container, its restart policy is ignored until the Docker daemon restarts or the container is manually restarted**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**When running network in 'host' mode you can override the dns related settings of the host by using which options of 'docker run'? (select two)**

Options are :

* *--dns-domain*
* *--dns*
* *--dns-search*
* *--dns\_server*

**Answer :**--dns --dns-search

**Which command is used to create an overlay network that can be used with swarm services or standalone containers to communicate with other standalone containers running on other Docker daemons?**

Options are :

* *docker network create -d overlay --attachable 'network name'*
* *docker-network create 'network name'*
* *docker make attachable overlay network 'network name'*
* *docker network 'network name' create -d overlay --attachable*

**Answer :**docker network create -d overlay --attachable 'network name'

**Which file is used to configure the default logging driver?**

Options are :

* */opt/docker/daemon.json*
* */var/docker/daemon.json*
* */etc/docker/daemon.json*
* */etc/docker/startup.json*

**Answer :**/etc/docker/daemon.json

**Changing the storage driver makes any containers you have already created inaccessible on the local system.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**If you bind-mount into a non-empty directory on the container, the directory's existing contents are obscured by the bind mount.**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**Which of the following is NOT true about Raft (docker consensus algorithm)?**

Options are :

* *Raft tolerates up to (N-2)/2 failures*
* *Raft requires a majority or quorum of (N/2) + 1 members*
* *If a quorum is not reached, the system will not process any more requests to schedule additional tasks*
* *If a quorum is not reached, the existing tasks will keep running*

**Answer :**Raft tolerates up to (N-2)/2 failures

**What is the docker command to add or update a mount on a service?**

Options are :

* *docker service update --mount-add*
* *docker service set --add-update-mount*
* *docker service --add-update-mount*
* *docker service --mount-volume*

**Answer :**docker service update --mount-add

**What is the docker command to update an existing service?**

Options are :

* *docker service config*
* *docker service change*
* *docker service update*
* *docker service modify*

**Answer :**docker service update

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**What is the docker command to add or update a node label?**

Options are :

* *docker node modify --set-label*
* *docker node add --label*
* *docker node update --set-label*
* *docker node update --label-add*

**Answer :**docker node update --label-add

**What is the docker command to roll back to the previous version of a service?**

Options are :

* *docker service update --rollback*
* *docker service update --rollback-version*
* *docker service --rollback-version*
* *docker service --rollback*

**Answer :**docker service update --rollback

**What is the docker command to increase number of replicas?**

Options are :

* *docker service replica*
* *docker service increase*
* *docker service build*
* *docker service scale*

**Answer :**docker service replica

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**What is the docker command to add or update a published port?**

Options are :

* *docker service modify --add-update-port*
* *docker service update --publish-port*
* *docker service set --add-port*
* *docker service update --publish-add*

**Answer :**docker service update --publish-add

**What is the docker command to add a placement preference?**

Options are :

* *docker service update --placement-pref-add*
* *docker service update --constraint-add*
* *docker service update --placement-constraint-add*
* *docker service update --pref-add*

**Answer :**docker service update --placement-pref-add

**Which of the following commands wifi automatically create a volume when a container is started?**

Options are :

* *docker container run --name nginxtest --volumes=/app nginx'*
* *docker container run --name nginxtest -v /app:mount nginx'*
* *docker container run --name nginxtest --volumes myvol:/app:new nginx'*
* *docker container run --name nginxtest -v myvol:/app nginx'*

**Answer :**docker container run --name nginxtest --volumes=/app nginx'

[Docker Certified Associate (DCA) Practice Exams Set 14](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-14)

**Which one of the following commands will show a list of volumes for a specific container?**

Options are :

* *docker container logs nginx --volumes'*
* *docker container inspect nginx'*
* *docker volume inspect nginx'*
* *docker volume logs nginx --containers'*

**Answer :**docker container inspect nginx'

**Which of the following constitutes a production-ready devicemapper configuration for the Docker engine?**

Options are :

* *Create a volume group in devicemapper and utilize the '--dm.thinpooldev' Docker daemon option, specifying the volume group*
* *Format a partition with xfs and mount it at '/var/lib/docker'*
* *Utilize the '--storage-opt dm.directlvm\_device' Docker daemon option, specifying a block device*
* *Nothing, devicemapper comes ready for production usage out of the box*

**Answer :**Utilize the '--storage-opt dm.directlvm\_device' Docker daemon option, specifying a block device

**Which one of the following commands will result in the volume being removed automatically once the container has exited?**

Options are :

* *docker run --del -v /foo busybox'*
* *docker run --read-only -v /foo busybox'*
* *docker run --rm -v /foo busybox'*
* *docker run --remove -v /foo busybox'*

**Answer :**docker run --rm -v /foo busybox'

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**A container named "analytics" that stores results in a volume called "data" was created. docker run -d --name=analytics -v data:/data app1 How are the results accessed in "data" with another container called "app2"?**

Options are :

* *docker run -d --name=reports --volume=data app2*
* *docker run -d --name=reports --volumes-from=analytics app2*
* *docker run -d --name=reports --volume=app1 app2*
* *docker run -d --name=reports --mount=app1 app2*

**Answer :**docker run -d --name=reports --volumes-from=analytics app2

**What Dockerfile option EXPOSE does?**

Options are :

* *Adds metadata to an image*
* *Informs Docker that the container listens on the specified network ports at runtime*
* *Expose defaults for an executing container*
* *Label a container that will run as an executable*

**Answer :**Informs Docker that the container listens on the specified network ports at runtime

**Which of the following Dockerfile options creates a mount point with the specified name and marks it as holding externally mounted volumes from native host or other containers?**

Options are :

* *RUN*
* *VOLUME*
* *ONBUILD*
* *WORKDIR*

**Answer :**VOLUME

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**Dockerfile option EXPOSE publish the port to external systems. True or false?**

Options are :

* *FALSE*
* *TRUE*

**Answer :**FALSE

**What Dockerfile option LABEL does?**

Options are :

* *Label a container that will run as an executable*
* *Adds metadata to an image*
* *Provide defaults for an executing container*
* *Tells Docker how to test a container to check that it is still working*

**Answer :**Adds metadata to an image

**When changes are made to a Docker image and are ready to be made available for containers to be instantiated on, which of the following commands would make that new image available, called 'httpd:v2'?**

Options are :

* *docker commit -m "Notes made here" myweb httpd:v2*
* *docker checkin httpd:v2*
* *docker tag httpd:latest httpd:v2*
* *Mutual Transport Layer Security*
* *None of the above.*

**Answer :**docker tag httpd:latest httpd:v2

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**Which Docker variable determines whether a host will ONLY download Docker trusted images?**

Options are :

* *DOCKER\_TRUST=1*
* *DOCKER\_TLS\_IMAGE=1*
* *DOCKER\_CONTENT\_TRUST=1*
* *DOCKER\_TRUSTED\_CONTENT=1*

**Answer :**DOCKER\_CONTENT\_TRUST=1

**Which of the following is NOT a swarm resource?**

Options are :

* *containers*
* *networks*
* *dockerfiles*
* *volumes*

**Answer :**dockerfiles

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**True of False :**

**Containers on user-defined bridge network can communicate only via IP addresses.**

Options are :

* *False*
* *True*

**Answer :**False

**Which docker network is used to connect one or more docker daemons of participating nodes in swarm cluster?**

Options are :

* *overlay*
* *ingress*
* *bridge*
* *docker\_gwbridge*

**Answer :**docker\_gwbridge

**Which of the following Dockerfile instructions confirms Docker's core concepts of source control and cheap commits?**

Options are :

* *CMD*
* *FROM*
* *RUN*
* *ARG*

**Answer :**RUN

[Docker Certified Associate (DCA) Practice Exams Set 14](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-14)

**You have created your company's website with visitor counts and hosted it using containerized web-servers. Which of the following provisions can potentially make you lose the track of your visitor count?**

Options are :

* *volumes*
* *tmpfs*
* *bind mounts*
* *all of the above*

**Answer :**tmpfs

**Which of the following is the default network driver for docker containers?**

Options are :

* *docker\_gwbridge*
* *host*
* *overlay*
* *bridge*

**Answer :**bridge

**Which of the following is NOT a part of the grant permission in UCP)?**

Options are :

* *certificates*
* *subject*
* *resource sets*
* *role*

**Answer :**certificates

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**Which of the following commands is used to remove dangling docker images?**

Options are :

* *docker rm*
* *docker image remove*
* *docker image prune*
* *docker rmi*

**Answer :**docker image prune

**Which of the following is not an object of The Container Network Model ?**

Options are :

* *End-point*
* *Network Controller*
* *Services*
* *Sandbox*

**Answer :**Services

**What is the final outcome of a container created from the following Dockerfile?**

1. **FROM ubutu:trusty**
2. **RUN apt-get update -y**
3. **ENTRYPOINT ["/bin/ping","-c","6"]**
4. **CMD ["localhost"]**

Options are :

* *Container will remain in created state.*
* *Container will get stuck in infinite pinging loop.*
* *Container will ping localhost for 6 times and will return to its shell.*
* *Container will ping the localhost for 6 times and will stop running.*

**Answer :**Container will ping the localhost for 6 times and will stop running.

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**Which of the following is the correct order of service creation process in swarm mode?**

Options are :

* *docker API > orchestrator > allocator > dispatcher > scheduler*
* *docker API > allocator > scheduler > dispatcher > orchestrator*
* *docker API > scheduler > allocator > dispatcher > orchestrator*
* *docker API > orchestrator > dispatcher > allocator > orchestrator*

**Answer :**docker API > orchestrator > allocator > dispatcher > scheduler

**Docker containers are the running instances of �  ?**

Options are :

* *Docker Image*
* *both (a) and (b)*
* *Dockerfile*
* *none of the above*
* *Dockerfile*

**Answer :**Docker Image

**Which of the following Dockerfile instructions will configure a starting point for the executable container?**

Options are :

* *ENV*
* *ENTRYPOINT*
* *CMD*
* *EXEC*

**Answer :**ENTRYPOINT

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**You want to run an nginx web-server container as a background process. Make sure that the container's port 80 is mapped to port 8080 on local host machine. As the final output, you should be able to access the default landing page of nginx web-server. Which of the following is the correct command for it?**

Options are :

* *docker run -itd --name web-server -p 8080:80 nginx:latest*
* *docker run -itd --name web-server -P nginx:latest*
* *docker run -itd --name web-server -p 80:8080 nginx:latest*
* *docker run --name web-server -p 8080:80 nginx:latest*

**Answer :**docker run -itd --name web-server -p 8080:80 nginx:latest

**Which of the following commands does not associate with docker volumes?**

Options are :

* *docker volume inspect*
* *docker volume create*
* *docker volume backup*
* *docker volume prune*

**Answer :**docker volume backup

**Which of the following is the default logging driver of Docker for Linux distributions?**

Options are :

* *json-file*
* *none*
* *syslog*
* *fluentd*

**Answer :**json-file

[Docker and Containers: Commands Set 1](https://chercher.tech/docker-certification/docker-and-containers-commands-set-1)

**Which of the following is responsible for merging host's already present cached image layers with pulled image layers?**

Options are :

* *ext4*
* *aufs*
* *NTFS*
* *swap*

**Answer :**aufs

**Which of the following network drivers utilizes VXLAN data plane to decouple docker network from the underlay physical network?**

Options are :

* *host*
* *bridge*
* *overlay*
* *macvlan*

**Answer :**overlay

**You have a running Ubuntu Container with bash as its default command. Copy a file called "services.txt" to the tmp directory of the container. Navigate inside the container and delete the /tmp directory. Exit from the container and run docker diff command. Which of the following would be the output of it (docker diff command)?**

Options are :

* *A /root/.bash\_history C /root D /tmp*
* *C /tmp A /tmp/service.txt D /tmp*
* *C /root A /root/.bash\_history D /tmp*
* *None of the above*

**Answer :**C /root A /root/.bash\_history D /tmp

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**Which of the following is not managed by Docker hub?**

Options are :

* *organizations*
* *containers*
* *docker images*
* *repositories*

**Answer :**containers

**Which of the following units of the swarm instructs worker to run a task?**

Options are :

* *Allocator*
* *Scheduler*
* *Orchestrator*
* *Dispatcher*

**Answer :**Scheduler

**Which of the following commands is used to isolate manager node from further scheduling of service tasks?**

Options are :

* *docker node stop manager*
* *none of the above*
* *docker node update --availability drain manager*
* *docker node update --available drain manager*

**Answer :**docker node update --availability drain manager

[Docker and Containers: Commands Set 4](https://chercher.tech/docker-certification/docker-and-containers-commands-set-4)

**Which of the following units of the swarm determines on which node a task will be scheduled?**

Options are :

* *Dispatcher*
* *Scheduler*
* *Orchestrator*
* *Allocator*

**Answer :**Dispatcher

**True or False:**

**The more number of managers in a swarm cluster, The more chances of better performance and scalability**

Options are :

* *True*
* *False*

**Answer :**False

**Which of the following provisions of Docker supports host networking?**

Options are :

* *Docker for Linux Distributions*
* *Docker Desktop for Windows*
* *Docker Desktop for Mac*
* *Docker EE for Windows Server*

**Answer :**Docker for Linux Distributions

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**What does following error indicate?**

**x509: certificate signed by unknown authority**

Options are :

* *user is running a docker swarm command on manager without client certificate.*
* *user have entered incorrect captcha.*
* *user is not registered on docker hub.*
* *user is running a docker command on UCP node without client certificate .*

**Answer :**user is running a docker command on UCP node without client certificate .

**Which of the following tasks can we perform to set a custom DNS server for a container?**

Options are :

* *We can use the --nameserver flag with docker run .*
* *We can use the --dns-override flag with docker run*
* *We can set "dns" in /etc/docker/daemon.json . .*
* *We can use the --dns flag with docker run .*

**Answer :**We can use the --dns flag with docker run .

**What is the docker command to create a bridge network?**

Options are :

* *docker network add*
* *docker create network*
* *docker network deploy*
* *docker network create*

**Answer :**docker network create

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**What is the docker command to see the storage driver Docker is currently using?**

Options are :

* *docker inspect*
* *docker info*
* *docker status*
* *docker config*

**Answer :**docker info

**Which of the followings are Docker Engine Security features? (select all that apply)**

Options are :

* *You can protect the Docker daemon socket and ensure only trusted docker client connection.*
* *You can configure Docker's trust features so that your users can push and pull trusted images.*
* *You can configure secure computing mode (Seccomp) policies to secure system calls in container*
* *You can use certificate-based client server authentication to verify a docker deamon has the rights to access image on registry.*

**Answer :**You can protect the Docker daemon socket and ensure only trusted docker client connection. You can configure Docker's trust features so that your users can push and pull trusted images. You can configure secure computing mode (Seccomp) policies to secure system calls in container You can use certificate-based client server authentication to verify a docker deamon has the rights to access image on registry.

**Tommy has some nodes with labels that specify the availability zone of each node. He wants to run a service that can run tasks on any node and that do not have the label availability\_zone=east . Which command should he use?**

Options are :

* *docker service create �constraint node.labels.availability\_zone!=east nginx*
* *docker service create �label node.labels.availability\_zone!=east nginx*
* *docker service create �constraint node.labels.availability\_zone==west nginx*
* *docker service create --placement-pref node.labels.availability\_zone==west nginx*

**Answer :**docker service create �constraint node.labels.availability\_zone!=east nginx

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Which storage driver is the default for CentOS 7 and earlier?**

Options are :

* *aufs*
* *loop-lvm*
* *overlay2*
* *devicemapper*

**Answer :**devicemapper

**Which of the following commands can we use to locate the actual files that store a container's internal data?**

Options are :

* *docker volume ls*
* *docker image inspect*
* *docker container inspect*
* *docker container volume ls*

**Answer :**docker container inspect

**Which devicemapper mode should we use for a production environment?**

Options are :

* *overlay2*
* *block storage*
* *loop-lvm*
* *direct-lvm*

**Answer :**direct-lvm

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**Which of the following commands can we utilize to list all of the replicas that are part of a service?**

Options are :

* *docker container ls*
* *docker service ps nginx*
* *docker ps*
* *docker service get nginx*

**Answer :**docker service ps nginx

**What type of network is ingress network?**

Options are :

* *host network*
* *bridge network*
* *overlay network*
* *macvlan network*

**Answer :**overlay network

**Which of the following commands would we use to retrieve a list of volumes on the current machine?**

Options are :

* *docker volume rm*
* *docker volume ls*
* *docker volume inspect*
* *docker volume ps*

**Answer :**docker volume ls

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**We have a group of people who need similar permissions in Universal Control Plane (UCP). How can we manage their permissions as a group without having to assign individual permissions to each user manually?**

Options are :

* *Create a GrantBundle and assign it to each user.*
* *Assign the users to a team, and then assign grants to the entire team, giving them the permissions they need.*
* *Add grants to one user to give them the permissions they need, and then copy that user's permissions to the other users.*
* *Create a role with several permissions assigned, and then assign each user to that shared role.*

**Answer :**Assign the users to a team, and then assign grants to the entire team, giving them the permissions they need.

**Which of the following statements is false?**

Options are :

* *Containers can NOT be attached and detached from user-defined networks on the fly.*
* *User-defined bridges provide better isolation and interoperability between containerized applications.*
* *Linked containers on the default bridge network share environment variables.*
* *Each user-defined network creates a configurable bridge*

**Answer :**User-defined bridges provide better isolation and interoperability between containerized applications.

**Which of the following statements about grants in the Universal Control Plane (UCP) is accurate?**

Options are :

* *A grant provides permissions concerning precisely one object.*
* *Grants can give permissions to a user, team, or organization.*
* *Each grant refers to one or more roles.*
* *For each user, only one grant may be assigned.*

**Answer :**Grants can give permissions to a user, team, or organization.

**We have a Docker host that is running low on storage. What command could help us identify how the host is using storage?**

Options are :

* *docker system df*
* *docker container ls*
* *docker image prune*
* *docker image inspect*

**Answer :**docker system df

**What is the docker command to add a node to a swarm?**

Options are :

* *docker join swarm*
* *docker swarm join*
* *docker swarm add-node*
* *docker swarm create-node*

**Answer :**docker swarm join

**Which flag allows us to return specific fields with docker inspect ?**

Options are :

* *--filter*
* *--field-limit*
* *--format*
* *--pretty*

**Answer :**--format

**Which of the following is NOT true about Raft (docker consensus algorithm)?**

Options are :

* *Raft tolerates up to (N-2)/2 failures.*
* *If a quorum is not reached, the system will not process any more requests to schedule additional tasks.*
* *If a quorum is not reached, the existing tasks will keep running.*
* *Raft requires a majority or quorum of (N/2) + 1 members.*

**Answer :**Raft tolerates up to (N-2)/2 failures.

**Which network driver type is best when the network stack should not be isolated from the Docker host, but you want other aspects of the container to be isolated?**

Options are :

* *Host networks*
* *User-defined bridge networks*
* *Macvlan networks*
* *Overlay networks*

**Answer :**Host networks

**When creating an overlay network, what flag can we use to allow containers to attach to the network after it is created?**

Options are :

* *--attachable*
* *--network-driver attachable*
* *--attach=true*
* *--open true*

**Answer :**--attachable

**Which command allows us to create an encrypted overlay network?**

Options are :

* *docker network create --opt encrypted my-net*
* *docker network create --opt encrypted --driver overlay my-net*
* *docker network create --secure --driver overlay mynet*
* *docker network create --encrypted --driver overlay my-net*

**Answer :**docker network create --opt encrypted --driver overlay my-net

**Which of the following is how to configure the Docker daemon to start on boot? (select two)**

Options are :

* *Use upstart for Ubuntu 14.10 and below*
* *Use crond for Ubuntu 14.10 and below*
* *Use systemd for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher)*
* *Use startup for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher)*

**Answer :**Use upstart for Ubuntu 14.10 and below Use systemd for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher)

**Which network driver type is best when you need containers running on different Docker hosts to communicate, or when multiple applications work together using swarm services?**

Options are :

* *Overlay networks*
* *Macvlan networks*
* *Host networks*
* *User-defined bridge networks*

**Answer :**Overlay networks

**Which of the following statements about the overlay network driver is accurate?**

Options are :

* *The network must be set up manually on each node.*
* *The network is set up on every node in the cluster as soon as the network faces creation.*
* *Networking components are created on nodes dynamically when tasks get scheduled on the node.*
* *The overlay driver only allows communication between containers running on the same host.*

**Answer :**Networking components are created on nodes dynamically when tasks get scheduled on the node.

**In terms of establishing a high level of availability, what is the benefit of having more manager nodes present in a swarm?**

Options are :

* *It would result in being more efficient with resources.*
* *It would allow for more worker nodes to be present.*
* *The cluster would be easier to set up.*
* *It would help bolster fault-tolerance.*

**Answer :**It would help bolster fault-tolerance.

**How would we create a volume called new-volume without running a container?**

Options are :

* *We would use docker run -v new-volume:/tmp nginx .*
* *We would run docker create volume new-volume .*
* *We would run docker run --rm -v new-volume:/tmp nginx .*
* *We would run docker volume create new-volume .*

**Answer :**We would run docker volume create new-volume .

**What is the docker command to connect a running container to an existing user-defined bridge?**

Options are :

* *docker network connect*
* *docker network join*
* *docker network attach*
* *docker connect network*

**Answer :**docker network connect

**Which of the following is NOT one of the 3 main Docker Container Network Model components?**

Options are :

* *Endpoint*
* *Network*
* *Routing*
* *Sandbox*

**Answer :**Routing

**What is the docker command to add or update a placement constraint?**

Options are :

* *docker service update --placement-pref-add*
* *docker service update --constraint-add*
* *docker service update --placement-constraint-add*
* *docker service update --pref-add*

**Answer :**docker service update --constraint-add

**Which of the below correct command to list the tasks associated with stack?**

Options are :

* *docker stack services STACKNAME*
* *docker stack ps STACKNAME*
* *docker stack task STACKNAME*
* *docker stack ls STACKNAME*

**Answer :**docker stack ps STACKNAME

**Which Command valid for with private registry.**

Options are :

* *docker pull*
* *docker push*
* *docker login*
* *docker search*

**Answer :**docker search

**What is an easy way to configure a client to communicate with Universal Control Plane (UCP) using client certificates?**

Options are :

* *We can execute the docker login command.*
* *We can download and use a client bundle.*
* *docker ucp login*
* *We can log into UCP via a browser.*

**Answer :**We can download and use a client bundle.

**Which of the following commands will create a new bridge network?**

Options are :

* *docker network create --driver overlay my-network*
* *docker network create --network-driver bridge mynetwork*
* *docker network create --network bridge my-network*
* *docker network create my-network*

**Answer :**docker network create my-network

**Which of the following commands would we use to automatically identify and delete images that are not being used?**

Options are :

* *docker image rm --all*
* *docker image rm*
* *docker image rm -a*
* *docker image prune*

**Answer :**docker image prune

**Which of below command used to remove dangling images  (image not reference by any tag or container) from the host.**

Options are :

* *docker rm*
* *docker image prune -t*
* *docker image prune*
* *docker image prune -a*

**Answer :**docker image prune

**What component of the Docker Container Networking Model (CNM) refers to a collection of endpoints that can communicate with one another?**

Options are :

* *Network*
* *IP Address Management (IPAM) Driver*
* *Sandbox*
* *Network device*

**Answer :**Network

**Which of the following commands would we use to locate the data for a volume on the host?**

Options are :

* *docker volume navigate*
* *docker volume inspect*
* *docker volume logs*
* *docker volume locate*

**Answer :**docker volume inspect

**Which of the following commands would we use to view a container's logs?**

Options are :

* *docker container get-log*
* *sudo journalctl -u docker*
* *docker logs*
* *docker service logs*

**Answer :**docker logs

**Which of the following network drivers is the default for connecting containers on the same host?**

Options are :

* *macvlan*
* *bridge*
* *host*
* *overlay*

**Answer :**bridge

**Which of the following network drivers is the default for connecting containers on the same host?**

Options are :

* *The none driver implements sandboxes.*
* *The none driver implements communication between containers.*
* *The none driver does not provide network isolation between containers.*
* *The none driver is the default when no driver is selected.*

**Answer :**The none driver implements sandboxes.

**What Linux feature does Docker use to allow containers to listen on ports lower than 1024 without running as root on the host?**

Options are :

* *Namespaces*
* *Linux jails*
* *Control Groups*
* *Capabilities*

**Answer :**Capabilities

**Which of the following commands will evenly spread out tasks based upon the values of a node label?**

Options are :

* *docker service create �constraint spread=node.labels.availability\_zone nginx*
* *docker service create --placement-pref spread=node.labels.availability\_zone nginx*
* *docker service create --placement-pref spread nginx*
* *docker service create --placement-pref evenspread=node.labels.availability\_zone nginx*

**Answer :**docker service create --placement-pref spread=node.labels.availability\_zone nginx

**What is the docker command to add a placement preference?**

Options are :

* *docker service update --placement-constraint-add*
* *docker service update --pref-add*
* *docker service update --placement-pref-add*
* *docker service update --constraint-add*

**Answer :**docker service update --placement-pref-add

**Amanda is having some network issues and needs to do some troubleshooting. How can she inject a nicolaka/netshoot container into the sandbox of an existing container called nginx-container.**

Options are :

* *Amanda can use docker run --network container:nginxcontainer nicolaka/netshoot .*
* *Amanda can use docker run --inject-container nginxcontainer nicolaka/netshoot .*
* *Amanda can use docker run --network nginx-container nicolaka/netshoot .*
* *Amanda can use docker run --network-debug nginxcontainer nicolaka/netshoot .*

**Answer :**Amanda can use docker run --network container:nginxcontainer nicolaka/netshoot .

**Publishing a service's port using the routing mesh makes the service accessible at the published port on every swarm node. True or false?**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**Which command is used to force a full stack trace to be logged?**

Options are :

* *sudo kill -trace $(pidof dockerd)*
* *sudo kill -SIGUSR1 $(pidof dockerd)*
* *sudo strace $(pidof dockerd)*
* *sudo trace -SIGUSR1 $(pidof dockerd)*

**Answer :**sudo kill -SIGUSR1 $(pidof dockerd)

**Which environment variable needs to be set in order to enable DCT on a per-shell basis?**

Options are :

* *DCT\_ENABLED*
* *DOCKER\_CONTENT\_TRUST*
* *DOCKER\_CONTENT\_TRUST\_ON*
* *DCT\_ON*

**Answer :**DOCKER\_CONTENT\_TRUST

**Which flag of 'docker swarm init' enables autolocking of swarm manager nodes when Docker restarts?**

Options are :

* *--restart-autolock*
* *--autolock*
* *--restartlock*
* *-al*

**Answer :**--autolock

**Which of the following manager node failure scenarios will be handled without downtime? (select two)**

Options are :

* *A five-manager swarm tolerates a maximum simultaneous loss of three manager nodes.*
* *A three-manager swarm tolerates a maximum loss of one manager.*
* *A five-manager swarm tolerates a maximum simultaneous loss of two manager nodes.*
* *A seven-manager swarm tolerates a maximum simultaneous loss of four manager nodes.*

**Answer :**A three-manager swarm tolerates a maximum loss of one manager. A five-manager swarm tolerates a maximum simultaneous loss of two manager nodes.

**What is the only instruction that may precede FROM in the Dockerfile?**

Options are :

* *ARG*
* *RUN*
* *CMD*
* *IMPORT*

**Answer :**ARG

**Which instruction defines a variable that users can pass at build-time?**

Options are :

* *CMD*
* *RUN*
* *IMPORT*
* *ARG*

**Answer :**ARG

**If a tasks fails during initialization it reverts to its previous state**

Options are :

* *FALSE*
* *TRUE*

**Answer :**FALSE

**What mechanism allows you to organize your images, record licensing information, annotate relationships between containers, volumes, and networks, etc?**

Options are :

* *Config files*
* *Flags*
* *Tags*
* *Labels*

**Answer :**Labels

**Which command should you run to connect a running container to an existing user-defined bridge**

Options are :

* *docker network connect 'network name'*
* *docker network attach 'network name' 'container name'*
* *docker network connect 'network name' 'container name'*
* *docker network 'network name' connect 'container name'*

**Answer :**docker network connect 'network name' 'container name'

**Which command is used to delete a service from the swarm?**

Options are :

* *docker service -d*
* *docker service delete*
* *docker service rm*
* *docker service remove*

**Answer :**docker service rm

**Instead of enabling DCT through the system-wide configuration, DCT can be enabled or disabled on a per-shell or per-invocation basis**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**Swarm services connected to the same overlay network effectively expose all ports to each other.**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**Which flag of 'docker service create' and 'docker service update' configures the maximum number of service tasks that the scheduler updates simultaneously?**

Options are :

* *--parallel*
* *--numjobs*
* *--update-parallelism*
* *-numtasks*

**Answer :**--update-parallelism

**When DCT is enabled in the Docker client, docker CLI commands that operate on tagged images must either have content signatures or explicit content hashes. Which docker command does not operate with DCT?**

Options are :

* *pull*
* *create*
* *run*
* *build*
* *load*
* *push*

**Answer :**load

**Which network driver connects multiple Docker daemons together and enables swarm services to communicate with each other, thereby removing the need to do OS-level routing between containers?**

Options are :

* *overlay*
* *none*
* *host*
* *bridge*
* *macvlan*

**Answer :**overlay

**With which type of mount may the data be stored anywhere on the host system?**

Options are :

* *Regular*
* *volumes*
* *bind mounts*
* *tempfs*

**Answer :**bind mounts

**Which command is used to get the state of a task?**

Options are :

* *docker service task list*
* *docker service ps*
* *docker task list*
* *docker task ls*

**Answer :**docker service ps

**Which of the following are valid states of the MANAGER STATUS column as shown when running 'docker node ls'? (select three)**

Options are :

* *Available*
* *Worker*
* *Reachable*
* *Leader*
* *Unavailable*

**Answer :**Reachable Leader Unavailable

**There are two ways to configure the Docker daemon:**

Options are :

* *With flags when starting dockerd*
* *an XML configuration file*
* *a INI configuration file*
* *a JSON configuration file*

**Answer :**With flags when starting dockerd a JSON configuration file

**By default the docker/dtr backup will perform an online backup**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**Which command is used to scale the number of containers / tasks in a service?**

Options are :

* *docker service scale*
* *docker service add-nodes*
* *docker service scale-tasks*
* *docker service add-tasks*

**Answer :**docker service scale

**Which instruction copies new files, directories from <src> and adds them to the filesystem of the container at the path <dest>?**

Options are :

* *FROM*
* *COPY*
* *ADD*
* *INSERT*

**Answer :**COPY

**Which option of dockerd is useful for troubleshooting**

Options are :

* *--debug*
* *--verbose*
* *--logdebug*
* *--logging=10*

**Answer :**--debug

**Docker uses which technology to provide the isolated workspace that make up the container?**

Options are :

* *HyperVisor*
* *Hardware Abstraction*
* *Namespaces*
* *Virtual Names*

**Answer :**Namespaces

**Command line arguments to docker run <image> will be appended after all elements in an exec form ENTRYPOINT, and will override all elements specified using CMD.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**Which network driver allows you to assign a MAC address to a container, making it appear as a physical device on your network?**

Options are :

* *macvlan*
* *overlay*
* *bridge*
* *host*
* *none*

**Answer :**macvlan

**Docker is written in which programming language?**

Options are :

* *Go*
* *.Net*
* *Python*
* *C*

**Answer :**Go

**Which instruction will execute any commands in a new layer on top of the current image and commit the results?**

Options are :

* *ARG*
* *FROM*
* *RUN*
* *CMD*

**Answer :**RUN

**For a port to be accessible outside of the service, that port must be published. Which of the following options to 'docker service create' are valid methods of publishing port 80 on the service to port 8080 on the routing mesh? (select two)**

Options are :

* *-p 80:8080*
* *-p 8080:80*
* *-p published=8080,target=80*
* *-p published=80,target=8080*

**Answer :**-p 8080:80 -p published=8080,target=80

**Which command is used to see the list of running services?**

Options are :

* *docker service ls*
* *docker services list*
* *docker swarm ls*
* *docker service list*

**Answer :**docker service ls

**What is used to define what goes on in the environment inside a container?**

Options are :

* *Docker policy*
* *Dockerfile*
* *Docker initialization file*
* *Docker template*

**Answer :**Dockerfile

**The docker logs command is not available for drivers other than json-file and journald.**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**Which of the following storage systems are supported by DTR?**

Options are :

* *Microsoft Azure Blob storage*
* *All of the storage systems are supported*
* *Amazon S3 or compatible*
* *Google Cloud Storage*

**Answer :**All of the storage systems are supported

**When you receive the error below, what should you do?**

**docker login dtr.example.org**

**x509: certificate signed by unknown authority**

Options are :

* *Phone Docker Support*
* *Reinstall DTR*
* *Install openssl*
* *Get the DTR CA certificate and configure your operating system to trust that certificate*

**Answer :**Get the DTR CA certificate and configure your operating system to trust that certificate

**Docker manager nodes store the swarm state and manager logs in which location?**

Options are :

* */var/lib/docker/swarm/*
* */var/lib/docker/*
* */etc/docker/swarm/*
* */opt/docker/swarm/*

**Answer :**/var/lib/docker/swarm/

**Which type of mount is a good choice when you want to store your container's data on a remote host or a cloud provider, rather than locally?**

Options are :

* *volumes*
* *tempfs*
* *bind mounts*
* *Regular*

**Answer :**volumes

**Which of the following are valid states of the AVAILABILITY column as shown when running 'docker node ls'? (select three)**

Options are :

* *Drain*
* *Inactive*
* *Pause*
* *Active*
* *Running*

**Answer :**Drain Pause Active

**In an environment where DOCKER\_CONTENT\_TRUST is set, which docker build flag allows individual operations on tagged images without DCT?**

Options are :

* *--dct-off*
* *--disable-dct*
* *--disable-content-trust*
* *--content-trust-off*

**Answer :**--disable-content-trust

**Which instruction allows you to configure a container that will run as an executable?**

Options are :

* *ENTRYPOINT*
* *ENV*
* *RUN*
* *CMD*

**Answer :**ENTRYPOINT

**Docker Hub and Docker Cloud are examples of?**

Options are :

* *docker templates*
* *docker repos*
* *docker libraries*
* *docker registries*

**Answer :**docker registries

**Which of the following commands will publish a service's port, but only on nodes that are running a task for that service?**

Options are :

* *docker service create -p 8080:80 nginx*
* *docker service create -p mode=ingress,published=8082,target=80 nginx*
* *docker service create -p mode=host,published=8082,target=80 nginx*
* *docker service create -p 8080:80 --mode host nginx*

**Answer :**docker service create -p mode=host,published=8082,target=80 nginx

**Which algorithm docker uses to maintain a consistent cluster state across multiple managers?**

Options are :

* *Floyd's Cycle Detection Algorithm.*
* *Round robin Algorithm*
* *Lee algorithm*
* *Raft consensus algorithm*

**Answer :**Raft consensus algorithm

**What is the docker run option to publish a port so that an application is accessible externally?**

Options are :

* *docker run --open-port*
* *docker run --expose*
* *docker run --piblish-port*
* *docker run --publish*

**Answer :**docker run --publish

**Which of the following is true of filesystem storage models? (select all that apply)**

Options are :

* *They store data in regular files on the host machine.*
* *They are efficient with write-heavy workloads.*
* *They are used by overlay2 and aufs .*
* *They use an external, object-based store.*

**Answer :**They store data in regular files on the host machine. They are used by overlay2 and aufs .

**What is the recommended approach to set storage driver?**

Options are :

* *Use --storage-driver flag when running dockerd*
* *There is no such a feature to set storage driver options*
* *Set the "storage-driver" option in the daemon.json file*
* *Set the "storage" command line*

**Answer :**Set the "storage-driver" option in the daemon.json file

**Which of the following units of the swarm passes a task to its corresponding node using HTTP request/response?**

Options are :

* *Dispatcher*
* *Orchestrator*
* *Allocator*
* *Scheduler*

**Answer :**Orchestrator

**In order to configure Docker daemon to start as the system boots up, which of the following commands is correct for most Linux distributions?**

Options are :

* *sudo systemctl start docker*
* *sudo systemctl enable docker*
* *sudo systemctl up docker*
* *sudo systemctl default docker*

**Answer :**sudo systemctl enable docker

[Docker Certified Associate (DCA) Practice Exams Set 14](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-14)

**Where does the docker daemon persist all docker related data on host machine?**

Options are :

* */var/lib/docker*
* */var/lib/docker-ce*
* *none*
* */etc/docker*

**Answer :**/var/lib/docker

**You want to search for a BusyBox official Docker Image with minimum rating of 30 stars. Which of the following commands will provide you the correct results?**

Options are :

* *docker search --filter "is-official=true" --filter "stars=30" busybox*
* *docker search --filter "is-official" --filer "stars=30" busybox*
* *docker search --filter "is-official=True" --filter "stars=30" busybox*
* *docker search --filter "is-official=true, stars=30" busybox*

**Answer :**docker search --filter "is-official=true" --filter "stars=30" busybox

**Which of the following use cases is more suitable for ingress?**

Options are :

* *a few dozen nginx replicas hosted on a swarm cluster with custom load balancing.*
* *static landing page on single container nginx web-server.*
* *a few nginx web-server container replicas on a single host.*
* *Super Mario flash game on Windows XP machine locally.*

**Answer :**a few dozen nginx replicas hosted on a swarm cluster with custom load balancing.

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**Which of the following flags is not supported by docker service create command?**

Options are :

* *-p*
* *-l*
* *-v*
* *-t*

**Answer :**-v

**How does UCP provide authorized client certificate?**

Options are :

* *As a Client Bundle (zip file)*
* *None of the above*
* *As pop-up dialog box (zip file download link)*
* *As a QR code*

**Answer :**As a Client Bundle (zip file)

**Which of the following commands is used by nodes to join the swarm cluster as worker node?**

Options are :

* *docker swarm join --token*
* *docker swarm --join --token*
* *docker swarm join worker*
* *None of the above*

**Answer :**docker swarm join --token

[Docker and Containers: Commands Set 3](https://chercher.tech/docker-certification/docker-and-containers-commands-set-3)

**Which of the following is NOT Docker Certified Infrastructure?**

Options are :

* *DigitalOcean*
* *Microsoft Azure*
* *VMware*
* *Amazon Web Services*

**Answer :**DigitalOcean

**Which of the following statements are true for Docker Image?**

Options are :

* *All the layers of docker image are read-only.*
* *All the layers of a Docker Image are delta of the previous layer.*
* *Docker Image layers are downloaded as a tar file and stored at /var/lib/docker/aufs/*
* *Docker Images are created using Docker Compose.*

**Answer :**All the layers of docker image are read-only. All the layers of a Docker Image are delta of the previous layer.

**Which of the following commands is used to start a docker daemon manually?**

Options are :

* *sudo docker daemon start*
* *docker start --daemon*
* *dockerd*
* *docker daemon start*

**Answer :**dockerd

[Docker Certified Associate (DCA) Practice Exams Set 10](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-10)

**Which of the following network drivers connects the container' s network stack directly to Docker Host?**

Options are :

* *overlay*
* *macvlan*
* *bridge*
* *host*

**Answer :**host

**What is the default network for swarm services?**

Options are :

* *bridge*
* *ingress*
* *host*
* *none*

**Answer :**ingress

**Which of the following is the application of Universal Control Plane ?**

Options are :

* *To configure docker on a Linux host*
* *To provide an integrated application management platform*
* *To create a docker swarm cluster*
* *To control all the running container processes*

**Answer :**To provide an integrated application management platform

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**Which of the following commands is used to pretty-print the containers' IDs, names and statuses in tabular form?**

Options are :

* *docker ps --format "table {{.ID}}\t{{.Names}}\t{{.Status}}"*
* *docker ps --format table "{{.ID}}\t{{.Names}}\t{{.Status}}"*
* *docker ps -format "table {{.ID}}\t{{.Names}}\t{{.Status}}"*
* *docker ps --format "{{.ID}}\t{{.Names}}\t{{.Status}}"*

**Answer :**docker ps --format "table {{.ID}}\t{{.Names}}\t{{.Status}}"

**Which of the following Dockerfile instructions informs Docker about the port on which container is listening?**

Options are :

* *EXPOSE*
* *PORT*
* *LABEL*
* *ENV*

**Answer :**EXPOSE

**What is the scope of the overlay network driver in Docker?**

Options are :

* *global*
* *swarm*
* *service*
* *local*

**Answer :**swarm

[Docker and Containers: Commands Set 3](https://chercher.tech/docker-certification/docker-and-containers-commands-set-3)

**Which of the following commands is used by worker nodes to leave swarm cluster gracefully?**

Options are :

* *None of the above*
* *docker swarm leave*
* *docker swarm exit*
* *docker node rm worker*

**Answer :**docker swarm leave

**Which of the following file-systems is NOT supported by docker to serve as its backend of storage drivers?**

Options are :

* *overlay2*
* *brtfs*
* *zfs*
* *ext4*

**Answer :**overlay2

**Which of the following are the supported orchestrators in Docker EE?**

Options are :

* *Swarmkit*
* *Docker Swarm*
* *Kubernetes*
* *All of the above*

**Answer :**All of the above

[Docker Certified Associate (DCA) Practice Exams Set 8](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-8)

**Which of the following vulnerabilities requires you to change the docker image layer entirely?**

Options are :

* *Command under CMD layer creates permission conflicts.*
* *Components of base image have critical vulnerabilities.*
* *All of the above*
* *File under ADD layer has bad Hex objects.*

**Answer :**Components of base image have critical vulnerabilities.

**Which of the following commands is used to list out tasks of one or more services in swarm?**

Options are :

* *docker services*
* *docker service ls*
* *docker service ps*
* *docker ps*

**Answer :**docker service ps

**Which of the following Dockerfile instructions is used to add metadata to the docker image?**

Options are :

* *METADATA*
* *ARG*
* *LABEL*
* *ADD*

**Answer :**LABEL

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**Which of the following are the supported team permission levels in Docker Trusted Registry?**

Options are :

* *Manager*
* *Read & Write*
* *none of the above*
* *Read only*

**Answer :**Read & Write Read only

**Which of the following orders is recommended to backup the components of Docker EE?**

Options are :

* *DTR > docker swarm >UCP*
* *UCP > DTR > docker swarm*
* *docker swarm > UCP > DTR*
* *docker swarm > DTR > UCP*

**Answer :**docker swarm > UCP > DTR

**True or False**

**Task is a unidirectional mechanism.**

Options are :

* *True*
* *False*

**Answer :**True

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**What is a Dockerfile?**

Options are :

* *Executable file to install docker*
* *Readme file for docker*
* *None of the above*
* *sequential set of instructions to build a docker image.*

**Answer :**sequential set of instructions to build a docker image.

**You want to initialise scan of your repository for vulnerabilities. But you are unable to do so. What could be the reason?**

Options are :

* *Security Scanning in not enabled in DTR.*
* *All of the above.*
* *You are using Docker Community Edition.*
* *You do not have the authority to download the security scanning licence for DTR.*

**Answer :**All of the above.

**Which of the following commands returns a detailed information on Docker objects for a Docker Image?**

Options are :

* *docker image inspect*
* *docker image history*
* *docker image info*
* *docker image stats*

**Answer :**docker image inspect

[Docker Certified Associate (DCA) Practice Exams Set 2](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-2)

**You have been assigned a task to host your organization's event blog using WordPress and MySQL database on a 25 active nodes swarm cluster. Make sure that one task of MySQL database service is deployed on each active node in swarm cluster. Which of the following commands will achieve your purpose?**

Options are :

* *docker service create --name mySQL --global mysql docker service create --name wordpress --replicas=25 wordpress*
* *docker service create --name mySQL --mode global mysql docker service create --name wordpress --replicas=25 wordpress*
* *docker service create --name mySQL --config global mysql docker service create --name wordpress --replicas=25 wordpress*
* *None of the above*

**Answer :**docker service create --name mySQL --mode global mysql docker service create --name wordpress --replicas=25 wordpress

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**Which of the following mechanisms tries to place services evenly on appropriate nodes in a swarm cluster?**

Options are :

* *Placement Constraint*
* *Placement Preference*
* *Replicated Mode*
* *Routing Mesh*

**Answer :**Placement Preference

**Which of the following mechanisms is used to configure services to run only on nodes with specific metadata set?**

Options are :

* *Placement Preference*
* *Placement Constraints*
* *Routing Mesh*
* *None of the above.*

**Answer :**Placement Constraints

**Which of the following ports on Docker Host is used to allow overlay network traffic in swarm mode?**

Options are :

* *TCP port 443*
* *UDP port 7946*
* *TCP port 2377*
* *UDP port 4789*

**Answer :**UDP port 4789

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**Which of the following statements about services is NOT correct?**

Options are :

* *A single service runs only one docker image.*
* *HTTP server is an example of service.*
* *Services are different blocks of a centralized computing application.*
* *None of the above.*

**Answer :**Services are different blocks of a centralized computing application.

**Which of the following flags is used to publish container's port(s) on an existing service in swarm?**

Options are :

* *--publish*
* *--publish-add*
* *--publish-all*
* *None of the above.*

**Answer :**--publish-add

**What is the limitation of docker service scale command in swarm mode?**

Options are :

* *It can only scale UP the service.*
* *It can only be applied on replicated services.*
* *It can only scale one service at a time.*
* *All of the above*

**Answer :**It can only be applied on replicated services.

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**Which of the following commands is used to revoke cluster management and orchestrating privileges from manager node?**

Options are :

* *docker node down*
* *docker node rm*
* *docker node demote*
* *None of the above*

**Answer :**docker node demote

**Which of the following commands is used to provide cluster management and orchestrating privileges to worker node?**

Options are :

* *docker node up*
* *docker node promote*
* *docker node demote*
* *None of the above*

**Answer :**docker node promote

**You have a 35 nodes swarm cluster. Out of which, 11 nodes are manager nodes. In order to avoid failure of set of machines or to perform periodic maintenance tasks, Which one of the following is the optimal distribution of manager nodes?**

Options are :

* *6-4-1*
* *5-5-1*
* *5-2-4*
* *4-4-3*

**Answer :**4-4-3

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**Which of the following paths on docker Host is used by manager nodes to store swarm state and manager logs?**

Options are :

* */var/log/docker/swarm*
* */var/lib/docker/swarm*
* */etc/docker/swarm*
* *None of the above*

**Answer :**/var/lib/docker/swarm

**Which of the following tools is used to provision and manage Docker Engine on one or more virtual hosts?**

Options are :

* *docker toolbox*
* *docker client*
* *docker-machine*
* *None of the above*

**Answer :**docker-machine

**Which of the following is the functionality of a storage driver?**

Options are :

* *To back-up docker image layers' data on Docker Daemon.*
* *To write docker image layers' data on Docker Host*
* *To manage the contents of image layers and writable container layers.*
* *All of the above.*

**Answer :**To manage the contents of image layers and writable container layers.

[Docker and Containers: Commands Set 4](https://chercher.tech/docker-certification/docker-and-containers-commands-set-4)

**True or False**

**Choice of storage mount options can affect the representation of data in the container.**

Options are :

* *True*
* *False*

**Answer :**False

**Which of the following is the scope of uniqueness for auto-generated anonymous volume name?**

Options are :

* *docker hub*
* *docker host*
* *docker swarm cluster*
* *none of the above*

**Answer :**docker host

**Which of the following mounts can grant read/write permissions on host file system to a process running inside a container?**

Options are :

* *volume*
* *bind mount*
* *tmpfs*
* *docker-cloud remote storage driver*

**Answer :**bind mount

**Which of the following configurations would be best for enabling direct-lvm mode with devicemapper ?**

Options are :

* *Set dm.mode=direct-lvm in /etc/docker/daemon.json .*
* *Set dm.direct-lvm=true in /etc/docker/daemon.json .*
* *Set dm.loop-lvm=false in /etc/docker/daemon.json .*
* *Set dm.directlvm\_device in /etc/docker/daemon.json .*

**Answer :**Set dm.directlvm\_device in /etc/docker/daemon.json .

**What is the correct order to upgrade a Docker cluster?**

Options are :

* *Upgrade UCP, DTR, then engine and kernel*
* *Upgrade engine and kernel, DTR, and then UCP*
* *Upgrade DTR, UCP, then engine and kernel*
* *Upgrade engine and kernel, UCP, and then DTR*

**Answer :**Upgrade engine and kernel, UCP, and then DTR

[Docker Certified Associate (DCA) Practice Exams Set 15](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-15)

**Which network driver type is best when you are migrating from a VM setup or need your containers to look like physical hosts on your network, each with a unique MAC address?**

Options are :

* *Host networks*
* *User-defined bridge networks*
* *Macvlan networks*
* *Overlay networks*

**Answer :**Macvlan networks

**Which command is used to deploy a new stack or update an existing stack.**

Options are :

* *docker stack deploy*
* *docker service create*
* *docker stack deploy update:*
* *docker stack create*

**Answer :**docker stack deploy

**Which network driver type is best when you need multiple containers to communicate on the same Docker host?**

Options are :

* *Macvlan networks*
* *Overlay networks*
* *User-defined bridge networks*
* *Host networks*

**Answer :**User-defined bridge networks

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**How many layers would the image contain given the docker file below?**

**FROM ubuntu:15.04**

**COPY . /app**

**RUN make /app**

**CMD python /app/app.py**

Options are :

* *1*
* *2*
* *4*
* *3*

**Answer :**4

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**Which column of the 'docker node ls' command shows shows node participation in the Raft consensus?**

Options are :

* *AVAILABILITY*
* *MANAGER STATUS*
* *STATE*
* *STATUS*

**Answer :**MANAGER STATUS

**A \_\_\_\_ is a running container which is part of a swarm service and managed by a swarm manager, as opposed to a standalone container**

Options are :

* *instance*
* *node*
* *task*
* *image*

**Answer :**task

**You can modify a service's configuration, including the networks and volumes it is connected to, without the need to manually restart the service**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**If you use -v or --volume to bind-mount a file or directory that does not yet exist on the Docker host, Docker does not automatically create it for you, but generates an error.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**Which of the following are valid options for the '--update-failure-action' of the 'docker service create' and 'docker service update' commands?**

Options are :

* *continue*
* *stop*
* *pause*
* *retry*
* *rollback*

**Answer :**continue pause rollback

**Which command should you run to disconnect a running container from an existing user-defined bridge**

Options are :

* *docker network 'network name' disconnect 'container name'*
* *docker network disconnect 'network name'*
* *docker network dettach 'network name' 'container name'*
* *docker network disconnect 'network name' 'container name'*

**Answer :**docker network disconnect 'network name' 'container name'

**To verify that the daemon is using the devicemapper storage driver you should?**

Options are :

* *Check the "storage-driver": "devicemapper" entry in the daemon.json file*
* *Use the docker info command and verify the Storage Driver is shown as devicemapper*

**Answer :**Use the docker info command and verify the Storage Driver is shown as devicemapper

**FROM can only appear once in a single dockerfile**

Options are :

* *FALSE*
* *TRUE*

**Answer :**FALSE

**If you use --mount to bind-mount a file or directory that does not yet exist on the Docker host, Docker does not automatically create it for you, but generates an error.**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**A group of machines that are running Docker and joined into a cluster is called a?**

Options are :

* *Swarm*
* *Hive*
* *Herd*
* *School*

**Answer :**Swarm

**Docker Trusted Registry (DTR) has to be installed on UCP**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**Which command removes all images which are not used by existing containers?**

Options are :

* *docker image rm -a*
* *docker image prune -rm\_all*
* *docker image prune -a*
* *docker image prune*

**Answer :**docker image prune -a

**With which type of mount is the data stored in a part of the host filesystem which is managed by Docker (/var/lib/docker/volumes/ on Linux)?**

Options are :

* *bind mounts*
* *volumes*
* *Regular*
* *tempfs*

**Answer :**volumes

**You can use the 'docker swarm join-token' command to generate which types of tokens? (select two)**

Options are :

* *manager*
* *worker*
* *CA*
* *node*

**Answer :**manager worker

**Which command is used on a node to remove it from the swarm?**

Options are :

* *docker node exit*
* *docker swarm leave*
* *docker swarm retire*
* *docker swarm exit*

**Answer :**docker swarm leave

**Which instruction's main purpose is to provide defaults for an executing container?**

Options are :

* *EXEC*
* *CMD*
* *EXPOSE*
* *RUN*

**Answer :**CMD

**Which command is used to live stream a container's runtime metrics?**

Options are :

* *docker mon*
* *docker top*
* *docker ps -ef*
* *docker stats*

**Answer :**docker stats

**Which command is used to demote a manager node to be a worker?**

Options are :

* *docker node downgrade*
* *docker swarm demote*
* *docker node remove manager*
* *docker node demote*

**Answer :**docker node demote

**Which command is used to create a service in a swarm?**

Options are :

* *docker service init*
* *docker swarm service init*
* *docker service create*
* *docker swarm service create*

**Answer :**docker service create

**A container is launched by running which of the following?**

Options are :

* *Virtual machines*
* *Templates*
* *Instructions*
* *Images*

**Answer :**Images

**Which of the following commands can be used to create a volume? (select three)**

Options are :

* *docker run -d --name test --mount source=testvol,target=/testvol ubuntu:latest*
* *docker run -d --name test -v testvol:/testvol ubuntu:latest*
* *docker volume create testvol*
* *docker volume make testvol*

**Answer :**docker run -d --name test --mount source=testvol,target=/testvol ubuntu:latest docker run -d --name test -v testvol:/testvol ubuntu:latest docker volume create testvol

**Which two file persistence options are available in Docker? (File persistence allows containers to store files in the host machine, so that they are available even after the container stops) (select two)**

Options are :

* *volumes*
* *tempfs*
* *ramdisk*
* *bind mounts*

**Answer :**volumes bind mounts

**Which dockerd flag allows you to keep your containers running during a Docker upgrade, though networking and user input are interrupted?**

Options are :

* *--stayonline*
* *--live-restore*
* *--no-restart*
* *--maintenance-mode*

**Answer :**--live-restore

**Running 'docker/dtr backup' will backup your DTR Metadata and Image Content**

Options are :

* *FALSE*
* *TRUE*

**Answer :**FALSE

**Besides the readonly image and the writable container layer, which other ways can containers take up disk space? (select three)**

Options are :

* *Data stored in tmpfs*
* *Disk space used for log files if you use the json-file logging driver.*
* *Disk space used for the container's configuration files, which are typically small.*
* *Volumes and bind mounts used by the container.*

**Answer :**Disk space used for log files if you use the json-file logging driver. Disk space used for the container's configuration files, which are typically small. Volumes and bind mounts used by the container.

**Each layer is stored in its own directory inside the Docker host's local storage area.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**Which command is used to create an overlay network capable of encrypting application data?**

Options are :

* *docker make encrypted overlay network 'network name'*
* *docker network 'network name' create -d overlay --encrypted*
* *docker network create -d overlay --opt encrypted 'network name'*
* *docker-network create 'network name'*

**Answer :**docker network create -d overlay --opt encrypted 'network name'

**Which mechanism is used exclude files and directories from the context that docker CLI uses to create an IMAGE**

Options are :

* *.dockerexclude file*
* *IGNORE instruction*
* *EXCLUDE instruction*
* *.dockerignore file*

**Answer :**.dockerignore file

**Which network driver removes network isolation between the container and the Docker host, and uses the host's networking directly?**

Options are :

* *macvlan*
* *bridge*
* *overlay*
* *host*
* *none*

**Answer :**host

**Swarm management commands like docker node ls only work on manager nodes.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**A \_\_\_\_\_\_\_ is the definition of the tasks to execute on the manager or worker nodes.**

Options are :

* *node*
* *cluster*
* *service*
* *manager*

**Answer :**service

**Which command is used to see details about the service running in the swarm AND provide the output in easily readable format?**

Options are :

* *docker service inspect --printformat*
* *docker service inspect*
* *docker service inspect --pretty*
* *docker service inspect --easyread*

**Answer :**docker service inspect --pretty

**What is the maximum recommended number of managers for a swarm?**

Options are :

* *7*
* *3*
* *5*
* *4*

**Answer :**7

**Which flag of docker run allows you to use a different container logging driver than the Docker daemon's default?**

Options are :

* *--log-driver*
* *--dumpdriver*
* *--logging*
* *--logger*

**Answer :**--log-driver

**To enable high-availability for Docker Trusted Registry (DTR) you can deploy multiple DTR replicas on different UCP workers.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**The host networking driver is supported on which of the following?**

Options are :

* *Docker EE for Windows Server*
* *Docker for Windows*
* *Linux hosts*
* *Docker for Mac*

**Answer :**Linux hosts

**Dockerfile should specify at least one of CMD or ENTRYPOINT commands.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**a container's hostname defaults to be the container's ID in Docker**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**Docker runs instructions in a dockerfile in sequential order**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**Which Docker feature allows you to protect the mutual TLS encryption key and the key used to encrypt and decrypt Raft logs at rest, by allowing you to take ownership of these keys and to require manual unlocking of your managers?**

Options are :

* *autolock*
* *encrypt*
* *protect*
* *managerlock*

**Answer :**autolock

**Which command can upload an image to a registry?**

Options are :

* *docker put*
* *docker push*
* *docker pull*
* *docker upload*

**Answer :**docker push

**The only way to recover from losing the quorum is to use which command from a manager node?**

Options are :

* *docker swarm init --force-new-cluster*
* *docker swarm init --restorequorum*
* *docker swarm init*
* *docker swarm update --restore-cluster*

**Answer :**docker swarm init --force-new-cluster

**You can set the logging driver for a specific container by using the --log-driver flag to which commands? (select two)**

Options are :

* *docker run*
* *docker container create*
* *docker logs*
* *docker logging*

**Answer :**docker run docker container create

**Which of the following are valid Docker Editions? (select two)**

Options are :

* *Docker CE*
* *Docker Flex*
* *Docker Premium*
* *Docker EE*

**Answer :**Docker CE Docker EE

**All swarm service management traffic is encrypted by default.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**It recommended to write instructions in a dockerfile in UPPERCASE and arguments in lowercase**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**Which instruction creates a mount point with the specified name and marks it as holding externally mounted volumes from native host or other containers?**

Options are :

* *VOLUME*
* *DISK*
* *ENTRYPOINT*
* *MOUNT*

**Answer :**VOLUME

**Which cleanup command should be run on the manager node after another node has left the swarm?**

Options are :

* *docker swarm node rm*
* *docker node remove*
* *docker node rm*
* *docker node delete*

**Answer :**docker node rm

**What is the enterprise-grade cluster management solution from Docker called?**

Options are :

* *Docker Universal Control Plane (UCP)*
* *Docker Cluster Manager*
* *Docker View*
* *Docker Flight Deck*

**Answer :**Docker Universal Control Plane (UCP)

**Which column of the 'docker node ls' command shows whether or not the scheduler can assign tasks to the node?**

Options are :

* *MANAGER STATUS*
* *STATE*
* *AVAILABILITY*
* *STATUS*

**Answer :**AVAILABILITY

**All application data traffic is encrypted by default.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**Which instruction sets the user name (or UID) and optionally the user group (or GID) to use when running the image and for any RUN, CMD and ENTRYPOINT instructions that follow it in the Dockerfile?**

Options are :

* *WHO*
* *SUDO*
* *RUNAS*
* *USER*

**Answer :**USER

**Before signing and pushing images to DTR you should perform which actions? (select two)**

Options are :

* *Import your UCP private keys to the Notary client*
* *Configure the Notary CLI client*
* *Install openssl*
* *Import your UCP private keys in DTR*

**Answer :**Import your UCP private keys to the Notary client Configure the Notary CLI client

**Which of the following is supported by control groups?**

Options are :

* *Manage certificates*
* *Limit CPU usage within a container*
* *Collect net*
* *Isolate processes in a container*

**Answer :**Limit CPU usage within a container

**Which of the following is NOT how to create an efficient image via a Dockerfile?**

Options are :

* *Avoid installing unnecessary packages*
* *Start with an appropriate base image*
* *Use multi-stage builds*
* *Combine multiple applications into a single container*

**Answer :**Combine multiple applications into a single container

**What are the two types of docker swarm services?**

Options are :

* *replicated and global services*
* *local and global services*
* *distributed and replicated services*
* *replicated and local services*

**Answer :**replicated and global services

**An application image runs in multiple environments, and each environment uses different certificates and ports, what is the best practice to deploy the containers?**

Options are :

* *Create a config file for each environment.*
* *Create a Dockerfile for each environment, specifying ports and Docker secrets for certificates.*
* *Create images that contain the specific configuration for every environment.*
* *Create a Dockerfile for each environment, specifying ports and ENV variables for certificates.*

**Answer :**Create a config file for each environment.

**Which network driver type is best when you need containers running on different Docker hosts to communicate, or when multiple applications work together using swarm services?**

Options are :

* *Macvlan networks*
* *Overlay networks*
* *User-defined bridge networks*
* *Host networks*

**Answer :**Overlay networks

**What Dockerfile option EXPOSE does?**

Options are :

* *Informs Docker that the container listens on the specified network ports at runtime*
* *Label a container that will run as an executable*
* *Expose defaults for an executing container*
* *Adds metadata to an image*

**Answer :**Informs Docker that the container listens on the specified network ports at runtime

**Wha is the purpose of Docker Content Trust?**

Options are :

* *Signing and verification of image tags*
* *Enabling mutual TLS between the Docker client and server*
* *Docker registry TLS verification and encryption*
* *Indicating an image on Docker Hub is an official image*

**Answer :**Signing and verification of image tags

**Which of the following is the docker command to enable autolock on an existing swarm cluster?**

Options are :

* *docker swarm autolock*
* *docker swarm update --autolock=true*
* *docker swarm --autolock=true*
* *docker swarm update --autolock-swarm=true*

**Answer :**docker swarm update --autolock=true

**What is the docker command to connect a running container to an existing user-defined bridge?**

Options are :

* *docker network join*
* *docker connect network*
* *docker network connect*
* *docker network attach*

**Answer :**docker network connect

**What docker image prune command does?**

Options are :

* *Remove unused images*
* *Remove one or more images*
* *Show the history of an image*
* *Display detailed information on one or more images*

**Answer :**Remove unused images

**Which network driver type is best when you are migrating from a VM setup or need your containers to look like physical hosts on your network, each with a unique MAC address?**

Options are :

* *Overlay networks*
* *Host networks*
* *User-defined bridge networks*
* *Macvlan networks*

**Answer :**Macvlan networks

**What is the docker command to see the storage driver Docker is currently using?**

Options are :

* *docker status*
* *docker info*
* *docker config*
* *docker inspect*

**Answer :**docker info

**You have created a Docker bridge network on a host with three containers attached, how do you make this containers accessible outside of the host?**

Options are :

* *Use --link to access the containers on the bridge network*
* *Use network connect to access the containers on the bridge network*
* *Use network attach to access the containers on the bridge network*
* *Use either EXPOSE or --publish to access the containers on the bridge network*

**Answer :**Use either EXPOSE or --publish to access the containers on the bridge network

**Which network driver type is best when you need multiple containers to communicate on the same Docker host?**

Options are :

* *Macvlan networks*
* *Overlay networks*
* *User-defined bridge networks*
* *Host networks*

**Answer :**User-defined bridge networks

**What does docker image rm command do?**

Options are :

* *Remove unused images*
* *Show the history of an image*
* *Remove one or more images*
* *Display detailed information on one or more images*

**Answer :**Remove one or more images

**The output of which command can be used to find the architecture and operating system an image is compatible with?**

Options are :

* *docker image inspect --format {{.Architecture}} {{.OS}} '*
* *docker image ls*
* *docker image info*
* *docker image inspect --filter {{.Architecture}} {{.OS}} '*

**Answer :**docker image inspect --format {{.Architecture}} {{.OS}} '

**Which of the following statements is false?**

Options are :

* *User-defined bridges provide better isolation and interoperability between containerized applications*
* *Linked containers on the default bridge network share environment variables*
* *Containers can NOT be attached and detached from user-defined networks on the fly*
* *Each user-defined network creates a configurable bridge*

**Answer :**Containers can NOT be attached and detached from user-defined networks on the fly

**What is the function of docker inspect command?**

Options are :

* *To inspect changes to files or directories on a container's filesystem*
* *To return low-level information on Docker objects*
* *To manage Docker configs*
* *To display system-wide information*

**Answer :**To return low-level information on Docker objects

**Which of the following Dockerfile options creates a mount point with the specified name and marks it as holding externally mounted volumes from native host or other containers?**

Options are :

* *WORKDIR*
* *VOLUME*
* *RUN*
* *ONBUILD*

**Answer :**VOLUME

**What are the steps needed to sign images in a way that UCP trusts them? (select three)**

Options are :

* *Initialize trust metadata for the repository*
* *Delegate signing to the keys in your UCP client bundle*
* *Configure Notary client*
* *Approve image sign on UCP*

**Answer :**Initialize trust metadata for the repository Delegate signing to the keys in your UCP client bundle Configure Notary client

**When seven managers are in a swarm cluster how would they be distributed across three datacenters or availability zones?**

Options are :

* *3-2-2*
* *3-3-1*
* *5-1-1*
* *4-2-1*

**Answer :**3-2-2

**Which of the following constitutes a production-ready devicemapper configuration for the Docker engine?**

Options are :

* *Create a volume group in devicemapper and utilize the '--dm.thinpooldev' Docker daemon option, specifying the volume group*
* *Format a partition with xfs and mount it at '/var/lib/docker'*
* *Nothing, devicemapper comes ready for production usage out of the box*
* *Utilize the '--storage-opt dm.directlvm\_device' Docker daemon option, specifying a block device*

**Answer :**Utilize the '--storage-opt dm.directlvm\_device' Docker daemon option, specifying a block device

**Which one of the following commands will show a list of volumes for a specific container?**

Options are :

* *'docker container logs nginx --volumes'*
* *'docker volume logs nginx --containers'*
* *'docker volume inspect nginx'*
* *'docker container inspect nginx'*

**Answer :**'docker container inspect nginx'

**From a DevOps process standpoint, it is best practice to keep changes to an application in version control. Which of the following will allow changes to a docker Image to be stored in a version control system?**

Options are :

* *docker save*
* *A dockerfile*
* *A docker-compose.yml file*
* *docker commit*

**Answer :**docker commit

**A host machine has four CPUs available and two running containers. The sysadmin would like to assign two CPUs to each container. Which of the following commands achieves this?**

Options are :

* *Set the '--cpuset-cpus' flag to '.5' on both containers*
* *Set the '--cpuset-cpus' flag of the 'dockerd' process to the value 'even-spread'*
* *Set the '--cpu-quota' flag to '1.3' on one container and '2,4' on the other container.*
* *Set the '--cpuset-cpu's flag to '1.3' on one container and '2.4' on the other container.*

**Answer :**Set the '--cpuset-cpus' flag to '.5' on both containers

**What is the correct order to upgrade a Docker cluster?**

Options are :

* *Upgrade UCP, DTR, then engine and kernel*
* *Upgrade engine and kernel, DTR, and then UCP*
* *Upgrade engine and kernel, UCP, and then DTR*
* *Upgrade DTR, UCP, then engine and kernel*

**Answer :**Upgrade engine and kernel, UCP, and then DTR

**What is the purpose of multi-stage builds?**

Options are :

* *Optimizing images by copying artifacts selectively from previous stages*
* *Better logical separation of Dockerfile instructions for better readability*
* *Better caching when building Docker images*
* *Faster image builds by allowing parallel execution of Docker builds*

**Answer :**Optimizing images by copying artifacts selectively from previous stages

**What is the docker command to add a node to a swarm?**

Options are :

* *docker swarm add-node*
* *docker swarm create-node*
* *docker swarm join*
* *docker join swarm*

**Answer :**docker swarm join

**Which of the following commands will automatically create a volume when a container is started?**

Options are :

* *'docker container run --name nginxtest --volumes myvol:/app:new nginx'*
* *'docker container run --name nginxtest --volumes=/app nginx'*
* *'docker container run --name nginxtest -v /app:mount nginx'*
* *'docker container run --name nginxtest -v myvol:/app nginx'*

**Answer :**'docker container run --name nginxtest -v myvol:/app nginx'

**Following the principle of least privilege, which of the following methods can be used to securely grant access to the specific user to communicate to a Docker engine? (Choose two.)**

Options are :

* *Utilize the '--host 127.0.0.1:2375' option to the Docker daemon to listen on port 2375 over TCP on localhost*
* *Give the user root access to the server to allow them to run Docker commands as root.*
* *Utilize the '--host 0.0.0.0:2375' option to the Docker daemon to listen on port 2375 over TCP on all interfaces*
* *Utilize openssl to create TLS client and server certificates, configuring the Docker engine to use with mutual TLS over TCP.*
* *Add the user to the 'docker' group on the server or specify the groue? with the '--group' Docker daemon option.*

**Answer :**Utilize openssl to create TLS client and server certificates, configuring the Docker engine to use with mutual TLS over TCP. Add the user to the 'docker' group on the server or specify the groue? with the '--group' Docker daemon option.

**What is the difference between a resource limit and a resource reservation when scheduling services?**

Options are :

* *A resource limit and a resource reservation can be used interchangeably.*
* *A resource limit is hard limit for your service, while a reservation is used to find a host with adequate resources for scheduling.*
* *A resource limit is a soft limit for your service, while a reservation is hard limit and the docker engine will do its best to keep your service at the limit.*
* *A resource limit is used to find a host with adequate resources for scheduling a hard limit for your service, while a reservation is hard limit for your service.*

**Answer :**A resource limit is hard limit for your service, while a reservation is used to find a host with adequate resources for scheduling.

**You want to run a multi-container application with MySQL and WordPress containers running side-by-side. WordPress is dependent on MySQL database container. Which of the following mounts can be used to save the WordPress login credentials to MySQL database?**

Options are :

* *volume*
* *bind mount*
* *tmpfs*
* *all of the above*

**Answer :**volume

**Which of the following is NOT an argument of docker volume create command?**

Options are :

* *--opt*
* *--tag*
* *--driver*
* *--name*

**Answer :**--tag

**If you are using a Linux distribution to run Docker, which of the following storage drivers can NOT be used?**

Options are :

* *devicemapper*
* *vfs*
* *ext4*
* *overlay2*

**Answer :**ext4

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**Which of the following provisions of Docker supports modifications on storage drivers?**

Options are :

* *Docker for Linux Distributions*
* *Docker Desktop for Mac*
* *Docker Desktop for Windows*
* *All of the above*

**Answer :**Docker for Linux Distributions

**Which of the following offerings are used to sign a Docker Image on DTR?**

Options are :

* *QR code*
* *trust metadata*
* *image digest*
* *CA certificate*

**Answer :**trust metadata

**Which of the following steps are essential to help UCP trust signed images in Docker?**

Options are :

* *Delegate signing to the keys in UCP client bundle*
* *Notary client configuration*
* *Initialize trust metadata for the repository*
* *All of the above.*

**Answer :**All of the above.

[Docker Certified Associate (DCA) Practice Exams Set 10](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-10)

**Which of the following tools allows users to implement RBAC?**

Options are :

* *Docker Hub*
* *Docker Compose*
* *Docker Universal Control Plane*
* *Docker Swarm*

**Answer :**Docker Universal Control Plane

**True or False**

**Docker Secrets are available for standalone containers and swarm services.**

Options are :

* *True*
* *False*

**Answer :**False

**Which of the following is NOT a docker native network driver?**

Options are :

* *host*
* *bridge*
* *load balancer*
* *macvlan*

**Answer :**load balancer

[Docker Certified Associate (DCA) Practice Exams Set 16](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-16)

**Which of the following networks removes the network isolation between container and docker host?**

Options are :

* *ingress*
* *bridge*
* *host*
* *macvlan*

**Answer :**host

**You have a running busybox container in the development environment, which is connected to the default bridge network. The testing team connected the busybox container to a user-defined bridge network called "test-bridge". Now, how many endpoints will busybox container have?**

Options are :

* *1*
* *2*
* *3*
* *0*

**Answer :**2

**Which of the following Linux technologies is responsible for the isolated nature of containers?**

Options are :

* *Isolated Networks*
* *namespace*
* *core isolation*
* *cgroups*

**Answer :**namespace

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**Which of the following commands is used to connect the network to running container?**

Options are :

* *docker connect*
* *docker network join*
* *docker network connect*
* *None of the above*

**Answer :**docker network connect

**Which of the following editions are offered by Docker?**

Options are :

* *Docker Console Edition & Docker Enterprise Edition*
* *Docker Community Edition & Docker Extended Edition*
* *Docker Community Edition & Docker Enterprise Edition*
* *Docker Container Edition and Docker Enhanced Edition*

**Answer :**Docker Community Edition & Docker Enterprise Edition

**Which of the following is not an update channel type in Docker CE?**

Options are :

* *Stable*
* *Scratch*
* *Test*
* *Nightly*

**Answer :**Scratch

[Docker Certified Associate (DCA) Practice Exams Set 14](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-14)

**Which of the following commands will you use to log a forced stack trace to troubleshoot an unresponsive docker daemon?**

Options are :

* *$ sudo kill -SIGKILL $(pidof dockerd)*
* *$ sudo kill -SIGTERM $(pidof dockerd)*
* *$ sudo kill -SIGSTP $(pidof dockerd)*
* *$ sudo kill -SIGUSR1 $(pidof dockerd)*

**Answer :**$ sudo kill -SIGUSR1 $(pidof dockerd)

**What is the default extension of Dockerfile ?**

Options are :

* *.txt*
* *.dockerfile*
* *.yaml*
* *None of the above*

**Answer :**None of the above

**Which of the following instructions sets the base image for subsequent instructions in Dockerfile?**

Options are :

* *CMD*
* *FROM*
* *ARG*
* *RUN*

**Answer :**FROM

[Docker Certified Associate (DCA) Practice Exams Set 15](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-15)

**True or False**

**FROM instruction can be used only ONCE in a single Dockerfile.**

Options are :

* *True*
* *False*

**Answer :**False

**What is the functionality of RUN instruction in Dockerfile?**

Options are :

* *It runs the Dockerfile and creates a new Docker Image.*
* *It executes the command on the writable layer of the container and commits the result.*
* *It executes command in a new layer on top of the current image and commits the result.*
* *None of the above,*

**Answer :**It executes command in a new layer on top of the current image and commits the result.

**Which of the following Dockerfile instructions is used to provide defaults for an executing container?**

Options are :

* *CMD*
* *ENTRYPOINT*
* *ENV*
* *FROM*

**Answer :**CMD

[Docker Certified Associate (DCA) Practice Exams Set 16](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-16)

**You want to create a Docker container which has Ubuntu as its base image. You have written 3 CMD instructions CMD-A, CMD-B, and CMD-C respectively in your Dockerfile and built Docker Image. Now, Which CMD instruction will be executed when the Ubuntu container starts running?**

Options are :

* *CMD-A*
* *CMD-B*
* *CMD-C*

**Answer :**CMD-C

**Which of the following forms is the exec form of ENTRYPOINT Dockerfile instruction?**

Options are :

* *ENTRYPOINT [ "echo" : "$PATH" ]*
* *ENTRYPOINT [ "echo", $PATH ]*
* *ENTRYPOINT [ "echo", "$PATH" ]*
* *ENTRYPOINT [ �echo' : �$PATH' ]*

**Answer :**ENTRYPOINT [ "echo", "$PATH" ]

**How do ADD and COPY Dockerfile instructions differ from each other?**

Options are :

* *ADD only adds files to image file system, whereas COPY adds files as well as directories to image file-system.*
* *ADD is used by single docker host whereas COPY is used by docker swarm clusters .*
* *ADD supports local-tar extractions and remote URL downloads, whereas COPY supports only local file transfer.*
* *All of the above.*

**Answer :**ADD supports local-tar extractions and remote URL downloads, whereas COPY supports only local file transfer.

[Docker and Containers: Commands Set 3](https://chercher.tech/docker-certification/docker-and-containers-commands-set-3)

**What is the present working directory of the container based on the given Dockerfile?**

1. **FROM ubuntu:latest**
2. **WORKDIR /tmp**
3. **RUN apt-get update -y**
4. **WORKDIR hello-docker**
5. **WORKDIR messages**
6. **RUN echo "hello" > test.txt**
7. **CMD ["bash"]**

Options are :

* */hello-docker/messages*
* */tmp/hello-docker/messages*
* */messages*
* */home/tmp/hello-docker/messages*

**Answer :**/tmp/hello-docker/messages

**Which of the following commands is used to list out all the layers of a Docker Image?**

Options are :

* *docker images*
* *docker list*
* *docker history*
* *docker inspect*

**Answer :**docker history

**Which of the following commands is used to backup Docker Images?**

Options are :

* *docker load*
* *docker export*
* *docker save*
* *docker pull*

**Answer :**docker save

[Docker Certified Associate (DCA) Practice Exams Set 2](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-2)

**Which of the following commands is used to list out all the available docker images on the docker host?**

Options are :

* *docker image ls*
* *docker list*
* *docker image top*
* *None of the above*

**Answer :**docker image ls

**Which of the following is the default storage driver in Docker CE?**

Options are :

* *overlay2*
* *overlay*
* *aufs*
* *devicemapper*

**Answer :**overlay2

**How a running container can be interpreted on a Linux host?**

Options are :

* *an application*
* *a program*
* *a process*
* *a file*

**Answer :**a process

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**What is the default container format of Docker containers?**

Options are :

* *libcontainer*
* *Application Container Image (ACI)*
* *LXD*
* *None of the above*

**Answer :**libcontainer

**Which of the following commands is used to create a MySQL version 5.4 database container?**

Options are :

* *docker run --name database --image mysql:5.4*
* *docker create --name database --image mysql:5.4*
* *docker create --name database mysql:5.4*
* *docker run --name database mysql:5.4*

**Answer :**docker create --name database mysql:5.4

**Which process's output will be available on terminal as standard output as a result of docker attach command?**

Options are :

* *RUN*
* *ENTRYPOINT/CMD*
* *EXPOSE*
* *FROM*

**Answer :**ENTRYPOINT/CMD

[Docker and Containers: Commands Set 3](https://chercher.tech/docker-certification/docker-and-containers-commands-set-3)

**What will be the output of the following docker command?**

**docker exec -it test-ubuntu "sudo apt-get update -y"**

Options are :

* *It will execute the update command in a running container.*
* *It will overwrite the default CMD command with "sudo apt-get update" command in running container.*
* *The command format is not supported.*
* *None of the above.*

**Answer :**The command format is not supported.

**Which of the following commands is used to backup Docker containers?**

Options are :

* *docker save*
* *docker export*
* *docker tar -cvf*
* *None of the above*

**Answer :**docker export

**Which of the following is NOT a node type in Docker Swarm?**

Options are :

* *manager*
* *worker*
* *master*
* *None of the above*

**Answer :**master

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**Which of the following components of the swarm allocates IP addresses to all running tasks?**

Options are :

* *Dispatcher*
* *Allocator*
* *Orchestrator*
* *Scheduler*

**Answer :**Allocator

**You have a five node swarm cluster deployed on your local system. What will happen if the only manage node of the cluster fails?**

Options are :

* *swarm services will continue to run.*
* *all member nodes will perform a re-election among them to elect a new manager*
* *swarm cluster will stop all the processes until user configures a new manager of the cluster.*
* *no action will be taken.*

**Answer :**swarm services will continue to run.

**You have a swarm cluster which consists of 27 active nodes. Out of which, 9 nodes are managers and one node is the leader. What will be the fault tolerance and quorum of this swarm cluster respectively?**

Options are :

* *14, 13*
* *4, 5*
* *13, 14*
* *5, 4*

**Answer :**4, 5

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**Docker security scan result is available in both UCP and DTR. True or false?**

Options are :

* *FALSE*
* *TRUE*

**Answer :**FALSE

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**What is the command that need to be executed to sign an image before pushing it to repository?**

Options are :

* *export TRUST\_DOCKER\_CONTENT=1*
* *export TRUST\_DOCKER\_IMAGE=1*
* *export SIGN\_DOCKER\_IMAGE=1*
* *export DOCKER\_CONTENT\_TRUST=1*

**Answer :**export DOCKER\_CONTENT\_TRUST=1

**What are the steps needed to sign images in a way that UCP trusts them? (select three)**

Options are :

* *Delegate signing to the keys in your UCP client bundle*
* *Approve image sign on UCP*
* *Configure Notary client*
* *Initialize trust metadata for the repository*

**Answer :**Delegate signing to the keys in your UCP client bundle Configure Notary client Initialize trust metadata for the repository

**What are the requirements to install Docker Trusted Registry (DTR)? (Select all that apply)**

Options are :

* *All nodes must be a worker node managed by Universal Control Plan*
* *Make sure the port 8080 and 8443 are open on the node*
* *All nodes must have a fixed hostname*
* *DTR can be installed on-premises or on a cloud provider*

**Answer :**All nodes must be a worker node managed by Universal Control Plan All nodes must have a fixed hostname DTR can be installed on-premises or on a cloud provider

[Docker and Containers: Commands Set 1](https://chercher.tech/docker-certification/docker-and-containers-commands-set-1)

**Where do you create Docker Role Based Access Controls (RBAC)?**

Options are :

* *Docker Trusted Registry*
* *Docker Machine*
* *Universal Control Plane*
* *Docker Compose*

**Answer :**Universal Control Plane

**Which of the following tool to use to create users and teams?**

Options are :

* *Docker Trusted Registry (DTR)*
* *Docker Compose*
* *Universal Control Plane (UCP)*
* *Docker Machine*

**Answer :**Universal Control Plane (UCP)

**Which network driver type is best when the network stack should not be isolated from the Docker host, but you want other aspects of the container to be isolated?**

Options are :

* *Macvlan networks*
* *User-defined bridge networks*
* *Host networks*
* *Overlay networks*

**Answer :**Host networks

**What service mode is used to deploy a single task of a service to each node?**

Options are :

* *distributed*
* *global*
* *spread*
* *replicated*
* *universal*

**Answer :**global

**What are the requirements to install Docker Trusted Registry (DTR)? (Select all that apply)**

Options are :

* *All nodes must be a worker node managed by Universal Control Plan*
* *DTR can be installed on-premises or on a cloud provider*
* *Make sure the port 8080 and 8443 are open on the node*
* *All nodes must have a fixed hostname*

**Answer :**All nodes must be a worker node managed by Universal Control Plan DTR can be installed on-premises or on a cloud provider All nodes must have a fixed hostname

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**Which of the following docker command can be used to find out all the ports mapped? (select three)**

Options are :

* *docker inspect*
* *docker port*
* *docker ps*
* *docker network ls*

**Answer :**docker inspect docker port docker ps

**A container named "analytics" that stores results in a volume called "data" was created. docker run -d --name=analytics -v data:/data app1 How are the results accessed in "data" with another container called "app2"?**

Options are :

* *docker run -d --name=reports --volume=app1 app2*
* *docker run -d --name=reports --volumes-from=analytics app2*
* *docker run -d --name=reports --mount=app1 app2*
* *docker run -d --name=reports --volume=data app2*

**Answer :**docker run -d --name=reports --volumes-from=analytics app2

**Which of the following commands will create a swarm service which only listens on port 53 using the UDP protocol?**

Options are :

* *docker service create --name dns-cache -p 53:53 --service udp dns-cache*
* *docker service create --name dns-cache -p 53:53 --constraint networking-protocol-udp=true dns-cache*
* *docker service create --name dns-cache -p 53:53 --udp dns-cache*
* *docker service create --name dns-cache -p 53:53/udp dns-cache*

**Answer :**docker service create --name dns-cache -p 53:53/udp dns-cache

[Docker Certified Associate (DCA) Practice Exams Set 10](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-10)

**Which of the following namespaces is disabled by default and must be enabled at Docker engine runtime in order to be used?**

Options are :

* *pid*
* *mnt*
* *user*
* *net*

**Answer :**user

**What Dockerfile option LABEL does?**

Options are :

* *Adds metadata to an image*
* *Provide defaults for an executing container*
* *Label a container that will run as an executable*
* *Tells Docker how to test a container to check that it is still working*

**Answer :**Adds metadata to an image

**You have deployed a service to swarm. Which command uses the Docker CLI to set the number of tasks of the services to 5? (choose 2)**

Options are :

* *'docker replica update =5'*
* *'docker service scale = 5''*
* *'docker service update --replicas=5 '*
* *'docker service replicas =5'*
* *'docker update service =5'*

**Answer :**'docker service scale = 5'' 'docker service update --replicas=5 '

[Docker Certified Associate (DCA) Practice Exams Set 8](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-8)

**Which of the following are types of namespaces used by Docker to provide isolation? (Choose 2.)**

Options are :

* *Storage*
* *Host*
* *Network*
* *Authentication*
* *Process ID*

**Answer :**Network Process ID

**Which of the following commands is used to display system-wide Docker configuration on a host?**

Options are :

* *docker inspect*
* *docker info*
* *docker status*
* *docker system*

**Answer :**docker info

**What is the docker command to display detailed information on one or more networks?**

Options are :

* *docker network status*
* *docker network display*
* *docker network inspect*
* *docker inspect network*

**Answer :**docker network inspect

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**What is the difference between a replicated and a global service?**

Options are :

* *Number of identical tasks can be specified for a replicated service. There is no pre-specified number of tasks for global service.*
* *Replicated service can only be deployed on manager node. Global service can be deployed on both manager and worker node.*
* *Good candidates for replicated service are monitoring agents that you want to run on every node in the swarm. Good candidates for global service are http servers.*
* *Replicated service runs one task on every node. Global service runs multiple task on every node.*

**Answer :**Number of identical tasks can be specified for a replicated service. There is no pre-specified number of tasks for global service.

**Which command interactively monitors all container activity in the Docker engine?**

Options are :

* *docker container logs*
* *docker system logs*
* *docker container events*
* *docker system events*

**Answer :**docker system events

**You have just executed 'docker swarm leave' on a node. What command can be run on the same node to confirm it has left the cluster?**

Options are :

* *docker system info*
* *docker system status*
* *docker node ls*
* *docker node status*

**Answer :**docker system info

**What is a grant made up of in Docker's Role Based Access Controls (RBAC)? (select three)**

Options are :

* *Certificate*
* *Resource collection*
* *Role*
* *Subject*

**Answer :**Resource collection Role Subject

**Which of the following commands will ensure that overlay traffic between service tasks is encrypted?**

Options are :

* *docker network create -d overlay --secure*
* *docker network create -d overlay -o encrypted=true*
* *docker service create --network --secure*
* *docker service create --network --encrypted*

**Answer :**docker network create -d overlay -o encrypted=true

**Which of the following statements is true about secrets?**

Options are :

* *Secrets can be modified after they are created.*
* *Secret are stored unencrypted on manager nodes.*
* *Secrets can be created using standard input (STDIN) and a file.*
* *Secrets can be created from any node in the cluster.*

**Answer :**Secrets can be created using standard input (STDIN) and a file.

**What is the command that need to be executed to sign an image before pushing it to repository?**

Options are :

* *export TRUST\_DOCKER\_IMAGE=1*
* *export DOCKER\_CONTENT\_TRUST=1*
* *export TRUST\_DOCKER\_CONTENT=1*
* *export SIGN\_DOCKER\_IMAGE=1*

**Answer :**export DOCKER\_CONTENT\_TRUST=1

**Which of the following is true about using the '-P' option when creating a new container?**

Options are :

* *Docker binds each exposed container port with the same port on the host*
* *Docker binds each exposed container port to a random port on a specified host interface*
* *Docker binds each exposed container port to a random port on all the host's interface*
* *Docker gives extended privileges to the container.*

**Answer :**Docker binds each exposed container port to a random port on all the host's interface

**What are the two types of UCP client bundles?**

Options are :

* *Admin user certificate bundles and user certificate bundles*
* *Docker CLI bundles and Docker web UI bundles*
* *Ops client bundles and dev client bundles*

**Answer :**Admin user certificate bundles and user certificate bundles

**What is the docker command to find the current logging driver for a running container?**

Options are :

* *docker status*
* *docker inspect*
* *docker info*
* *docker config*

**Answer :**docker inspect

**A server is running low on disk space. What command can be used to check the disk usage of images, containers, and volumes for Docker engine?**

Options are :

* *'docker system ps'*
* *'docker system prune'*
* *'docker system df'*
* *'docker system free'*

**Answer :**'docker system df'

**What is the purpose of a client bundle in the Universal Control Plane?**

Options are :

* *Authenticate a user using client certificates to the Universal Control Plane*
* *Provide a new user instructions for how to login to the Universal Control Plane*
* *Group multiple users in a team in the Universal Control Plane*
* *Provide a user with a Docker client binary compatible with the Universal Control Plane*

**Answer :**Authenticate a user using client certificates to the Universal Control Plane

**What is the docker command to update an existing service?**

Options are :

* *docker service update*
* *docker service modify*
* *docker service change*
* *docker service config*

**Answer :**docker service update

**Which flag for a service would allow a container to consume more than 2 GB of memory only when there is no memory contention but would also prevent a container from consuming more than 4GB of memory, in any case?**

Options are :

* *--memory-swap 4GB --limit-memory 2GB*
* *--limit-memory 4GB --reserve-memory 2GB*
* *--memory-swap 2GB --limit-memory 4GB*
* *--limit-memory 2GB --reserve-memory 4GB*

**Answer :**--limit-memory 4GB --reserve-memory 2GB

**Which of the following is NOT one of the 3 main Docker Container Network Model components?**

Options are :

* *Routing*
* *Network*
* *Sandbox*
* *Endpoint*

**Answer :**Routing

**Which of the following is the correct command to store an image to a registry?**

Options are :

* *docker store [OPTIONS] NAME[:TAG]*
* *docker commit [OPTIONS] NAME[:TAG]*
* *docker push [OPTIONS] NAME[:TAG]*
* *docker upload [OPTIONS] NAME[:TAG]*

**Answer :**docker push [OPTIONS] NAME[:TAG]

**What is the docker command to increase number of replicas?**

Options are :

* *docker service replica*
* *docker service scale*
* *docker service build*
* *docker service increase*

**Answer :**docker service scale

**A docker service 'web' is running with a scale factor of 1 (replicas = 1). Bob intends to use the command 'docker service update --replicas=3 web'. Alice intends to use the command 'docker service scale web=3'. How do the outcomes oft these two commands differ?**

Options are :

* *Both Bob's and Alice's commands result in exactly the same outcome, which is 3 instances of the 'web' service.*
* *Bob's command results in an error. Alice's command updates the number of replicas of the 'web' service to 3.*
* *Bob's command only updates the service definition, but no new replicas are started. Alice's command results in the actual scaling up of the 'web' service.*
* *Bob's command updates the number of replicas of the 'web' service to 3. Alice's command results in an error.*

**Answer :**Both Bob's and Alice's commands result in exactly the same outcome, which is 3 instances of the 'web' service.

**In Docker Trusted Registry, how would a user prevent an image, for example 'nginx:latest' from being overwritten by another user with push access to the repository?**

Options are :

* *Remove push access from all other users.*
* *Tag the image with 'nginx:immutable'*
* *Keep a backup copy of the image on another repository.*
* *Use the DTR web UI to make the tag immutable.*

**Answer :**Use the DTR web UI to make the tag immutable.

**Which of the following commands starts a Redis container and configures it to always restart unless it is explicitly stopped or Docker is restarted?**

Options are :

* *'docker run -d --restart-policy unless-stopped redis'*
* *'docker run -d --failure omit-stopped redis'*
* *'docker run -d --restart unless-stopped redis'*
* *'docker run -d --restart omit-stopped redis'*

**Answer :**'docker run -d --restart unless-stopped redis'

**You can monitor the status of UCP by using the web UI or the CLI. True or false?**

Options are :

* *False*
* *True*

**Answer :**True

**What is the docker command to add a placement preference?**

Options are :

* *docker service update --placement-constraint-add*
* *docker service update --constraint-add*
* *docker service update --placement-pref-add*
* *docker service update --pref-add*

**Answer :**docker service update --placement-pref-add

**Which of the following is NOT true about Raft (docker consensus algorithm)?**

Options are :

* *If a quorum is not reached, the system will not process any more requests to schedule additional tasks*
* *Raft requires a majority or quorum of (N/2) + 1 members*
* *If a quorum is not reached, the existing tasks will keep running*
* *Raft tolerates up to (N-2)/2 failures*

**Answer :**Raft tolerates up to (N-2)/2 failures

**What is the default format of docker inspect output?**

Options are :

* *xml*
* *json*
* *html*
* *yaml*

**Answer :**json

**Which of the following modes can be used for service discovery of a Docker swarm service (Pick 2 correct answers)**

Options are :

* *Ingress with --endpoint-mode ingress*
* *Overlay with --endpoint-mode overlay*
* *Network Address Translation(NAT) with --endpoint-mode nat*
* *DNS Round-Robin with --endpoint-mode dnsrr*
* *Virtual IP (VIP) with --endpoint-mode vip*

**Answer :**DNS Round-Robin with --endpoint-mode dnsrr Virtual IP (VIP) with --endpoint-mode vip

**Each container shares common writeable container layer. True or false?**

Options are :

* *False*
* *True*

**Answer :**False

**What is the docker command to add or update a placement constraint?**

Options are :

* *docker service update --constraint-add*
* *docker service update --pref-add*
* *docker service update --placement-pref-add*
* *docker service update --placement-constraint-add*

**Answer :**docker service update --constraint-add

**What is used by the kernel to Isolate resources when running Docker containers?**

Options are :

* *Control groups (also know as cgroups)*
* *Volumes*
* *Overlay networks*
* *Namespaces*

**Answer :**Control groups (also know as cgroups)

**What is the docker command to setup a swarm?**

Options are :

* *docker swarm create*
* *docker swarm init*
* *docker init swarm*
* *docker create swarm*

**Answer :**docker swarm init

**Which of the following is true about overlay networks?**

Options are :

* *Overlay networks are first created on the manager nodes. Then they are created on the worker nodes once a task is scheduled on the specific worker node.*
* *Overlay networks are created only on the manager node that you created the overlay networking on.*
* *Overlay networks are only created on the manager nodes.*
* *Overlay networks are created on all cluster nodes when you create the overlay network.*

**Answer :**Overlay networks are first created on the manager nodes. Then they are created on the worker nodes once a task is scheduled on the specific worker node.

**Which of the following is NOT a valid way to tag a Docker image?**

Options are :

* *Tag an image referenced by Name*
* *Tag an image referenced by user ID*
* *Tag an image referenced by image ID*
* *Tag an image referenced by Name and Tag*

**Answer :**Tag an image referenced by user ID

**What is the docker command to remove one or more images?**

Options are :

* *docker remove*
* *docker image delete*
* *docker image rm*
* *docker delete*

**Answer :**docker image rm

**Which of the following is required to install Docker EE from a package repository?**

Options are :

* *License key obtained from Docker Store*
* *Repository URL obtained from Docker Hub*
* *Repository URL obtained from Docker Store*
* *License key obtained from Docker Hub*

**Answer :**Repository URL obtained from Docker Store

**The following health check exists in a**

**Dockerfile: 'HEALTCHECK CMD curl --fail http://localhost/health || exit 1'**

**Which of the following describes its purpose?**

Options are :

* *Defines the health check endpoint on the localhost interface for external monitoring tools to monitor the health of the docker engine.*
* *Defines the action taken when container health fails, which in this case will kill the container with exit status 1*
* *Defines the health check for the containerized application so that the application health can be monitored by the Docker engine*
* *Defines the health check endpoint on the local host interface for containers to monitor the health of the docker engine*

**Answer :**Defines the action taken when container health fails, which in this case will kill the container with exit status 1

**Docker image is built up from a series of layers and each layer represents an instruction in the image's Dockerfile. True or false?**

Options are :

* *False*
* *True*

**Answer :**True

**If installing Docker using devicemapper for storage with the Intent to run production workloads, how should devicemapper be configured?**

Options are :

* *loop-lvm*
* *overlay-lvm*
* *direct-lvm*
* *aufs-lvm*

**Answer :**direct-lvm

**What is the recommended way to configure the daemon flags and environment variables for your Docker daemon in a platform independent way?**

Options are :

* *Set the configuration options in '/etc/docker/daemon.json'*
* *Using 'docker config' to set the configuration options.*
* *Set the configuration options using the ENV variable*
* *Set the configuration DOCKER\_OPTS in '/etc/default/docker'*

**Answer :**Set the configuration options in '/etc/docker/daemon.json'

**What is the docker command to add or update a node label?**

Options are :

* *docker node update --set-label*
* *docker node add --label*
* *docker node modify --set-label*
* *docker node update --label-add*

**Answer :**docker node update --label-add

**What is the docker command to add or update a mount on a service?**

Options are :

* *docker service --add-update-mount*
* *docker service --mount-volume*
* *docker service set --add-update-mount*
* *docker service update --mount-add*

**Answer :**docker service update --mount-add

**What behavior is expected when a service is created with the following command: 'docker service create --publish 8080:80 nginx'**

Options are :

* *All nodes in the cluster will listen on port 80 and forward to port 8080 in the container.*
* *Only a single node in the cluster will listen on port 8080 and forward to port 80 in the container.*
* *All nodes in the cluster will listen on port 8080 and forward to port 80 in the container.*
* *Only a single node in the cluster will listen on port 80 and forward to port 8080 in the container.*

**Answer :**All nodes in the cluster will listen on port 8080 and forward to port 80 in the container.

**What is one way of directly transferring a Docker Image from one Docker host in another?**

Options are :

* *'docker commit' to save the image outside of the Docker filesystem. Then transfer the file over to the target host and 'docker start' to start the container again.*
* *There is no way of directly transferring Docker images between hosts. A Docker Registry must be used ad an intermediary.*
* *'docker push' the image to the IP address of the target host.*
* *'docker save' the image to save it as TAR file and copy it over to the target host. Then use 'docker load' to un-TAR the image back as a Docker image.*

**Answer :**'docker save' the image to save it as TAR file and copy it over to the target host. Then use 'docker load' to un-TAR the image back as a Docker image.

**What is the endpoint that we can use to check the health of a single UCP manager node?**

Options are :

* *https:///\_status*
* *https:///\_ping*
* *https:///\_heartbeat*
* *https:///\_health*

**Answer :**https:///\_ping

**Which of the following is the correct command to tag an image?**

Options are :

* *docker tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]*
* *docker build tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]*
* *docker tag image SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]*
* *docker tag TARGET\_IMAGE[:TAG] SOURCE\_IMAGE[:TAG]*

**Answer :**docker tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]

**Which statement is true?**

Options are :

* *CMD is used to run the software is the image along with any arguments*
* *ENTRYPOINT cannot be overriden in the "docker container run" command*
* *CMD shell format uses this form ["param", param", "param"]*
* *ENTRYPOINT cannot be used in conjuction with CMD*

**Answer :**CMD shell format uses this form ["param", param", "param"]

**Which statement is true about DTR garbage collection?**

Options are :

* *Garbage collection removes DTR images that are older than a configurable of days*
* *Garbage collection removes exited containers from cluster nodes.*
* *Garbage collection removes unused volumes from cluster nodes*
* *Garbage collection removes unreferenced image layers from DTR's backend storage.*

**Answer :**Garbage collection removes unreferenced image layers from DTR's backend storage.

**Which of these swarm manager configurations will cause the cluster to be in a lost quorum state?**

Options are :

* *3 managers of which 2 are healthy*
* *5 managers of which 3 are healthy*
* *1 manager of which 1 is healthy*
* *4 managers of which 2 are healthy*

**Answer :**4 managers of which 2 are healthy

**After creating a new service named 'http', you notice that the new service is not registering as healthy. How do you view the list of historical tasks for that service by using the command line?**

Options are :

* *'docker service ps http'*
* *'docker service inspect http'*
* *'docker inspect http'*
* *'docker ps http'*

**Answer :**'docker service inspect http'

**Which of the following statements is incorrect?**

Options are :

* *The column 'virtual size' of docker ps -s output shows the amount of data used for the read-only image data used by the container plus the container's writable layer 'size'.*
* *When a container is deleted, the writable layer is persisted.*
* *Copy-on-write is a Docker strategy of sharing and copying files for maximum efficiency.*
* *The column 'size' of docker ps -s output shows the amount of data that is used for the writable layer of each container.*

**Answer :**When a container is deleted, the writable layer is persisted.

**What is the docker command for displaying layers of a Docker image?**

Options are :

* *docker info*
* *docker image layers*
* *docker history*
* *docker layers*

**Answer :**docker history

**A user is having problems running Docker. Which of the following will start Docker in debug mode?**

Options are :

* *Start the 'dockerd' process manually with the '--raw-logs' flag set to debug*
* *Set the logging key to debug in the 'daemon.json' file.*
* *Start the 'dockerd' process manually with the '--logging' flag set to debug*
* *Set the debug key to true in the 'daemon.json' file.*

**Answer :**Set the debug key to true in the 'daemon.json' file.

**A service 'wordpress' is running using a password string to connect to a non-Dockerized database service. The password string is passed into the 'wordpress' service as a Docker secret. Per security policy, the password on the database was changed. Identity the correct sequence of steps to rotate the secret from the old password to the new password.**

Options are :

* *Create a new docker secret with a new password. Trigger a rolling update of the "wordpress" service, by using "-- secret-rm" & "--secret-add" to remove the old secret and add the updated secret.*
* *Trigger an update to the service by using 'docker service update --secret='*
* *Create a new docker secret with the new password. Remove the existing service using 'docker service rm'. Start a new service with the new secret using "--secret="*
* *Create a new docker secret with the new password. Trigger a rolling secret update by using the 'docker secret update' command*

**Answer :**Create a new docker secret with a new password. Trigger a rolling update of the "wordpress" service, by using "-- secret-rm" & "--secret-add" to remove the old secret and add the updated secret.

**What is the docker command to add or update a published port?**

Options are :

* *docker service update --publish-add*
* *docker service update --publish-port*
* *docker service set --add-port*
* *docker service modify --add-update-port*

**Answer :**docker service update --publish-add

**Which set of commands can identify the publishd port(s) for a container? (Choose 1.)**

Options are :

* *'docker container inspect', docker port'*
* *'docker network inspect','docker port'*
* *'docker port inspect', 'docker container inspect'*
* *'docker info','docker network inspect'*

**Answer :**'docker container inspect', docker port'

**What is the image storage solution that is part of Docker Enterprise Edition called?**

Options are :

* *Docker Hub*
* *Universal Control Plane*
* *Docker Registry*
* *Docker Trusted Registry*

**Answer :**Docker Trusted Registry

**What is the docker command to find the current logging driver for a running container?**

Options are :

* *docker indo*
* *docker config*
* *docker status*
* *docker inspect*

**Answer :**docker inspect

**How do you configure Docker engine to use a registry that is not configured with TLS certificates from a trusted CA?**

Options are :

* *Set IGNORE\_TLS in the 'daemon.json' configuration file.*
* *Set and export the IGNORE\_TLS environment variable on the command line*
* *Pass the '--insecure-registry' flag to the daemon at run time*
* *Set INSECURE\_REGISTRY in the '/etc/docker/default' configuration file*

**Answer :**Pass the '--insecure-registry' flag to the daemon at run time

**Publishing a service's port using the routing mesh makes the service accessible at the published port on every swarm node. True or false?**

Options are :

* *False*
* *True*

**Answer :**True

**What is the docker command to roll back to the previous version of a service?**

Options are :

* *docker service --rollback*
* *docker service update --rollback-version*
* *docker service update --rollback*
* *docker service --rollback-version*

**Answer :**docker service update --rollback

**What is the command to set DNS server for all Docker containers?**

Options are :

* *dockerd --dns-server IP\_ADDRESS*
* *dockerd --dns-update IP\_ADDRESS*
* *dockerd --dns IP\_ADDRESS*
* *dockerd --set-dns IP\_ADDRESS*

**Answer :**dockerd --dns IP\_ADDRESS

**Which one of the following commands will result in the volume being removed automatically once the container has exited?**

Options are :

* *'docker run --rm -v /foo busybox'*
* *'docker run --remove -v /foo busybox'*
* *'docker run --read-only -v /foo busybox'*
* *'docker run --del -v /foo busybox'*

**Answer :**'docker run --rm -v /foo busybox'

**Dockerfile option EXPOSE publish the port to external systems. True or false?**

Options are :

* *True*
* *False*

**Answer :**False

**What is the docker command to create a container with custom DNS server(s)?**

Options are :

* *docker container create --set-dns=IP\_ADDRESS*
* *docker container create --custom-dns=IP\_ADDRESS*
* *docker container create --dns=IP\_ADDRESS*
* *docker container create --add-dns=IP\_ADDRESS*

**Answer :**docker container create --dns=IP\_ADDRESS

**What type of network is ingress network?**

Options are :

* *bridge network*
* *overlay network*
* *host network*
* *macvlan network*

**Answer :**overlay network

**What is the docker command to add a network to a service?**

Options are :

* *docker service update --network-add*
* *docker service add-network*
* *docker service set --add-network*
* *docker service modify --add-network*

**Answer :**docker service update --network-add

**When using the Docker client to push an image to a registry, what environment variable is used to instruct the client to perform signing of the image?**

Options are :

* *NOTARY\_ENABLE=1*
* *DOCKER\_PUSH\_SIGN=1*
* *DOCKER\_CONTENT\_TRUST=1*
* *DOCKER\_IMAGE\_SIGN=1*

**Answer :**DOCKER\_CONTENT\_TRUST=1

**Which of the following is NOT backed up when performing a Docker Trusted backup operation?**

Options are :

* *Repository metadata*
* *Image blobs*
* *Access control to repos and images*
* *DTR configurations*

**Answer :**Image blobs

**What is the difference between the ADD and COPY dockerfile instructions? (choosen 2)**

Options are :

* *ADD supports compression format handling while COPY does not.*
* *COPY supports compression format handling while ADD does not.*
* *COPY supports regular expression handling while ADD does not.*
* *ADD support remote URL handling while COPY does not.*
* *ADD supports regular expression handling while COPY does not.*

**Answer :**ADD supports compression format handling while COPY does not. ADD support remote URL handling while COPY does not.

**What do we call the runtime instance of a Docker image?**

Options are :

* *package*
* *swarm*
* *layer*
* *container*

**Answer :**container

**Which Docker build instruction should be used to run the software contained by your image, along with any arguments?**

Options are :

* *CMD*
* *ENTRYPOINT*
* *RUN*
* *FROM*

**Answer :**CMD

**You have just deployed a Docker Swarm onto two machines: a manager and a worker. You would now like to access your app. Which of the machines' IP addresses can you use?**

Options are :

* *only the manager*
* *only the worker*
* *neither; Docker Swarms use an external load balancer*
* *either*

**Answer :**either

**When writing a Dockerfile, what does the FROM command signify?**

Options are :

* *The programming language used*
* *The current container's author*
* *The host operating system*
* *The image upon which this container is based*

**Answer :**The image upon which this container is based

**Which of the following does Docker NOT provide as a native logging integration?**

Options are :

* *Nagios*
* *Splunk*
* *Fluentd*
* *AWS CloudWatch*

**Answer :**Nagios

**What is Docker's reserved, minimal image called?**

Options are :

* *blank*
* *base*
* *start*
* *scratch*

**Answer :**scratch

**When creating a Docker swarm service with docker service create , which of the following options for the runtime environment can you not configure?**

Options are :

* *the service's exposed ports*
* *the username or UID for the container*
* *environment variables inside the container*
* *the working directory inside the container*

**Answer :**the service's exposed ports

**Which Docker build command should be used to expose any database storage area, configuration storage, or files/folders created by your docker container?**

Options are :

* *DATA*
* *PERSIST*
* *VOLUME*
* *WORKDIR*

**Answer :**VOLUME

**What command would you run if you want to run a scratch Docker container with host port 4000 mapped to the container's exposed port 80?**

Options are :

* *docker run -p 4000:80 scratch*
* *docker run --expose 4000:80 scratch*
* *docker run --expose 80:4000 scratch*
* *docker run -p 80:4000 scratch*

**Answer :**docker run -p 4000:80 scratch

**You want the Docker daemon to output debug logs. In which file can you enable a flag to cause this to happen?**

Options are :

* *settings.json*
* *docker.json*
* *debug.json*
* *daemon.json*

**Answer :**daemon.json

**Which of the following is NOT a network created by Docker when it is installed?**

Options are :

* *none*
* *host*
* *bridge*
* *base*

**Answer :**base

**What is a grant made up of in Docker's Role Based Access Controls (RBAC)? (select three)**

Options are :

* *Resource collection*
* *Certificate*
* *Role*
* *Subject*

**Answer :**Resource collection Role Subject

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**What is the correct order to backup Docker EE components?**

Options are :

* *Back up UCP, swarm, then DTR*
* *Back up swarm, DTR, then UCP*
* *Back up DTR, UCP, then swarm*
* *Back up swarm, UCP, then DTR*

**Answer :**Back up swarm, UCP, then DTR

**Where is the option to integrate Docker Enterprise with LDAP?**

Options are :

* *Universal Control Plane*
* *Docker Trusted Registry*
* *Docker Compose*
* *Docker Machine*

**Answer :**Universal Control Plane

**Which of the following items need to be considered before installing Docker Enterprise?**

Options are :

* *Docker Engine, DTR, and UCP version compatibility*
* *Time Synchronization*
* *Disk space*
* *Network ports*
* *All of the options*

**Answer :**All of the options

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**You can monitor the status of UCP by using the web UI or the CLI. True or false?**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**What is the endpoint that we can use to check the health of a single UCP manager node?**

Options are :

* *https:///\_heartbeat*
* *https:///\_ping*
* *https:///\_health*
* *https:///\_status*

**Answer :**https:///\_ping

**What is the difference between UCP workers and managers?**

Options are :

* *ucp-agent service automatically starts serving all UCP components in manager node, and only a proxy service in worker node*
* *ucp-agent service automatically starts serving all UCP components in worker node, and only a proxy service in manager node*

**Answer :**ucp-agent service automatically starts serving all UCP components in manager node, and only a proxy service in worker node

[Docker Certified Associate (DCA) Practice Exams Set 8](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-8)

**What are the two types of UCP client bundles?**

Options are :

* *Ops client bundles and dev client bundles*
* *Docker CLI bundles and Docker web UI bundles*
* *Docker UCP client bundles and DTR client bundles*
* *Admin user certificate bundles and user certificate bundles*

**Answer :**Admin user certificate bundles and user certificate bundles

**What is the docker command to backup the UCP?**

Options are :

* *docker backup ucp*
* *docker/ucp backup*

**Answer :**docker/ucp backup

**How to configure the default logging driver?**

Options are :

* *Set the "log-driver" option in the daemon.json file*
* *Use --log-driver flag*

**Answer :**Set the "log-driver" option in the daemon.json file

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**What is the docker command to find the current logging driver for a running container?**

Options are :

* *docker status*
* *docker info*
* *docker inspect*
* *docker config*

**Answer :**docker inspect

**What is the docker command to create a container with custom DNS server(s)?**

Options are :

* *docker container create --dns=IP\_ADDRESS*
* *docker container create --custom-dns=IP\_ADDRESS*
* *docker container create --add-dns=IP\_ADDRESS*
* *docker container create --set-dns=IP\_ADDRESS*

**Answer :**docker container create --dns=IP\_ADDRESS

**What is the command to set DNS server for all Docker containers?**

Options are :

* *dockerd --dns-server IP\_ADDRESS*
* *dockerd --set-dns IP\_ADDRESS*
* *dockerd --dns-update IP\_ADDRESS*
* *dockerd --dns IP\_ADDRESS*

**Answer :**dockerd --dns IP\_ADDRESS

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**What is the docker command to see container logs?**

Options are :

* *docker logs*
* *docker debug*
* *docker dump-logs*
* *docker fetch-logs*

**Answer :**docker logs

**What is the docker command to display detailed information on one or more networks?**

Options are :

* *docker inspect network*
* *docker network status*
* *docker network display*
* *docker network inspect*

**Answer :**docker network inspect

**What is the docker command to add or update a node label?**

Options are :

* *docker node modify --set-label*
* *docker node add --label*
* *docker node update --set-label*
* *docker node update --label-add*

**Answer :**docker node update --label-add

[Docker Certified Associate (DCA) Practice Exams Set 11](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-11)

**Which of the following docker command can be used to find out all the ports mapped? (select three)**

Options are :

* *docker inspect*
* *docker ps*
* *docker port*
* *docker network ls*

**Answer :**docker inspect docker ps docker port

**What is the docker command to increase number of replicas?**

Options are :

* *docker service scale*
* *docker service build*
* *docker service replica*
* *docker service increase*

**Answer :**docker service scale

**What is the docker command to update an existing service?**

Options are :

* *docker service update*
* *docker service change*
* *docker service config*
* *docker service modify*

**Answer :**docker service update

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**What is the docker command to add or update a mount on a service?**

Options are :

* *docker service --add-update-mount*
* *docker service update --mount-add*
* *docker service set --add-update-mount*
* *docker service --mount-volume*

**Answer :**docker service update --mount-add

**What is the docker command to roll back to the previous version of a service?**

Options are :

* *docker service --rollback-version*
* *docker service update --rollback-version*
* *docker service update --rollback*
* *docker service --rollback*

**Answer :**docker service update --rollback

**What is the docker command to add or update a published port?**

Options are :

* *docker service set --add-port*
* *docker service modify --add-update-port*
* *docker service update --publish-port*
* *docker service update --publish-add*

**Answer :**docker service update --publish-add

[Docker Certified Associate (DCA) Practice Exams Set 2](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-2)

**What is the docker command to add a network to a service?**

Options are :

* *docker service set --add-network*
* *docker service update --network-add*
* *docker service add-network*
* *docker service modify --add-network*

**Answer :**docker service update --network-add

**What is the docker command to setup a swarm?**

Options are :

* *docker swarm init*
* *docker init swarm*
* *docker swarm create*
* *docker create swarm*

**Answer :**docker swarm init

**What is the docker run option to publish a port so that an application is accesible externally?**

Options are :

* *docker run --open-port*
* *docker run --publish*
* *docker run --expose*
* *docker run --publish-port*

**Answer :**docker run --publish

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**Which of the followings are Docker Engine Security features? (select all that apply)**

Options are :

* *You can protect the Docker daemon socket and ensure only trusted Docker client connections*
* *You can configure Docker's trust features so that your users can push and pull trusted images*
* *You can configure secure computing mode (Seccomp) policies to secure system calls in a container*
* *You can use certificate-based client-server authentication to verify a Docker daemon has the rights to access images on a registry*

**Answer :**You can protect the Docker daemon socket and ensure only trusted Docker client connections You can configure Docker's trust features so that your users can push and pull trusted images You can configure secure computing mode (Seccomp) policies to secure system calls in a container You can use certificate-based client-server authentication to verify a Docker daemon has the rights to access images on a registry

**Which of the following is NOT true about Raft (docker consensus algorithm)?**

Options are :

* *If a quorum is not reached, the system will not process any more requests to schedule additional tasks*
* *Raft requires a majority or quorum of (N/2) + 1 members*
* *Raft tolerates up to (N-2)/2 failures*
* *If a quorum is not reached, the existing tasks will keep running*

**Answer :**Raft tolerates up to (N-2)/2 failures

**What is the docker command to add or update a placement constraint?**

Options are :

* *docker service update --placement-constraint-add*
* *docker service update --placement-pref-add*
* *docker service update --constraint-add*
* *docker service update --pref-add*

**Answer :**docker service update --constraint-add

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**What is the docker command to add a placement preference?**

Options are :

* *docker service update --constraint-add*
* *docker service update --pref-add*
* *docker service update --placement-constraint-add*
* *docker service update --placement-pref-add*

**Answer :**docker service update --placement-pref-add

**Publishing a service's port using the routing mesh makes the service accessible at the published port on every swarm node. True or false?**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**What is the docker command to see the storage driver Docker is currently using?**

Options are :

* *docker status*
* *docker info*
* *docker inspect*
* *docker config*

**Answer :**docker info

[Docker Certified Associate (DCA) Practice Exams Set 8](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-8)

**What is the recommended approach to set storage driver?**

Options are :

* *Use --storage-driver flag when running dockerd*
* *Set the "storage-driver" option in the daemon.json file*

**Answer :**Set the "storage-driver" option in the daemon.json file

**Which of the following is how to configure the Docker daemon to start on boot? (select two)**

Options are :

* *Use crond for Ubuntu 14.10 and below*
* *Use startup for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher)*
* *Use systemd for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher)*
* *Use upstart for Ubuntu 14.10 and below*

**Answer :**Use systemd for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher) Use upstart for Ubuntu 14.10 and below

**Which network driver type is best when you need containers running on different Docker hosts to communicate, or when multiple applications work together using swarm services?**

Options are :

* *Host networks*
* *Macvlan networks*
* *Overlay networks*
* *User-defined bridge networks*

**Answer :**Overlay networks

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**Which network driver type is best when you need multiple containers to communicate on the same Docker host?**

Options are :

* *Host networks*
* *Overlay networks*
* *User-defined bridge networks*
* *Macvlan networks*

**Answer :**User-defined bridge networks

**Which network driver type is best when you are migrating from a VM setup or need your containers to look like physical hosts on your network, each with a unique MAC address?**

Options are :

* *Host networks*
* *Macvlan networks*
* *User-defined bridge networks*
* *Overlay networks*

**Answer :**Macvlan networks

**Which network driver type is best when the network stack should not be isolated from the Docker host, but you want other aspects of the container to be isolated?**

Options are :

* *Macvlan networks*
* *Overlay networks*
* *User-defined bridge networks*
* *Host networks*

**Answer :**Host networks

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**What is the docker command to connect a running container to an existing user-defined bridge?**

Options are :

* *docker network join*
* *docker network attach*
* *docker network connect*
* *docker connect network*

**Answer :**docker network connect

**Which of the following statements is false?**

Options are :

* *Linked containers on the default bridge network share environment variables*
* *User-defined bridges provide better isolation and interoperability between containerized applications*
* *Containers can NOT be attached and detached from user-defined networks on the fly*
* *Each user-defined network creates a configurable bridge*

**Answer :**Containers can NOT be attached and detached from user-defined networks on the fly

**What is the docker command to create a bridge network?**

Options are :

* *docker network deploy*
* *docker network create*
* *docker create network*
* *docker network add*

**Answer :**docker network create

[Docker and Containers: Commands Set 1](https://chercher.tech/docker-certification/docker-and-containers-commands-set-1)

**What type of network is ingress network?**

Options are :

* *macvlan network*
* *overlay network*
* *host network*
* *bridge network*

**Answer :**overlay network

**Which of the following is NOT one of the 3 main Docker Container Network Model components?**

Options are :

* *Endpoint*
* *Sandbox*
* *Routing*
* *Network*

**Answer :**Routing

**What is the correct order to upgrade a Docker cluster?**

Options are :

* *Upgrade engine and kernel, DTR, and then UCP*
* *Upgrade UCP, DTR, then engine and kernel*
* *Upgrade DTR, UCP, then engine and kernel*
* *Upgrade engine and kernel, UCP, and then DTR*

**Answer :**Upgrade engine and kernel, UCP, and then DTR

[Docker Certified Associate (DCA) Practice Exams Set 10](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-10)

**What is the docker command to add a node to a swarm?**

Options are :

* *docker swarm join*
* *docker swarm create-node*
* *docker swarm add-node*
* *docker join swarm*

**Answer :**docker swarm join

**Which of the Dockerfile options initializes a new build stage and sets the base image for subsequent instructions?**

Options are :

* *ONBUILD*
* *FROM*
* *RUN*
* *CMD*

**Answer :**FROM

**What is the docker command to add or update a published port?**

Options are :

* *docker service update --publish-add*
* *docker service update --publish-port*
* *docker service set --add-port*
* *docker service modify --add-update-port*

**Answer :**docker service update --publish-add

**What is the docker command to add or update a mount on a service?**

Options are :

* *docker service --mount-volume*
* *docker service set --add-update-mount*
* *docker service --add-update-mount*
* *docker service update --mount-add*

**Answer :**docker service update --mount-add

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**What is the docker command to add or update a node label?**

Options are :

* *docker node update --label-add*
* *docker node update --set-label*
* *docker node modify --set-label*
* *docker node add --label*

**Answer :**docker node update --label-add

**What is the docker command to roll back to the previous version of a service?**

Options are :

* *docker service --rollback*
* *docker service update --rollback-version*
* *docker service update --rollback*
* *docker service --rollback-version*

**Answer :**docker service update --rollback

**What is the docker command to increase number of replicas?**

Options are :

* *docker service increase*
* *docker service replica*
* *docker service scale*
* *docker service build*

**Answer :**docker service scale

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**What is the docker command to update an existing service?**

Options are :

* *docker service modify*
* *docker service update*
* *docker service change*
* *docker service config*

**Answer :**docker service update

**What is the docker command to add or update a placement constraint?**

Options are :

* *docker service update --pref-add*
* *docker service update --placement-pref-add*
* *docker service update --placement-constraint-add*
* *docker service update --constraint-add*

**Answer :**docker service update --constraint-add

**Which of the following is NOT true about Raft (docker consensus algorithm)?**

Options are :

* *Raft tolerates up to (N-2)/2 failures*
* *If a quorum is not reached, the existing tasks will keep running*
* *Raft requires a majority or quorum of (N/2) + 1 members*
* *If a quorum is not reached, the system will not process any more requests to schedule additional tasks*

**Answer :**Raft tolerates up to (N-2)/2 failures

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**What is the docker command to add a placement preference?**

Options are :

* *docker service update --constraint-add*
* *docker service update --placement-constraint-add*
* *docker service update --pref-add*
* *docker service update --placement-pref-add*

**Answer :**docker service update --placement-pref-add

**What is the docker command to add a network to a service?**

Options are :

* *docker service add-network*
* *docker service modify --add-network*
* *docker service update --network-add*
* *docker service set --add-network*

**Answer :**docker service update --network-add

**Where do you create Docker Role Based Access Controls (RBAC)?**

Options are :

* *Docker Trusted Registry*
* *Docker Compose*
* *Universal Control Plane*
* *Docker Machine*

**Answer :**Universal Control Plane

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**Where is the option to integrate Docker Enterprise with LDAP?**

Options are :

* *Docker Compose*
* *Docker Machine*
* *Universal Control Plane*
* *Docker Trusted Registry*

**Answer :**Universal Control Plane

**Which of the followings are Docker Engine Security features? (select all that apply)**

Options are :

* *You can protect the Docker daemon socket and ensure only trusted Docker client connections*
* *You can use certificate-based client-server authentication to verify a Docker daemon has the rights to access images on a registry*
* *You can configure Docker's trust features so that your users can push and pull trusted images*
* *You can configure secure computing mode (Seccomp) policies to secure system calls in a container*

**Answer :**You can protect the Docker daemon socket and ensure only trusted Docker client connections You can use certificate-based client-server authentication to verify a Docker daemon has the rights to access images on a registry You can configure Docker's trust features so that your users can push and pull trusted images You can configure secure computing mode (Seccomp) policies to secure system calls in a container

**Docker security scan can be started by all users including those with read-only access. True or false?**

Options are :

* *FALSE*
* *TRUE*

**Answer :**FALSE

**What are the steps needed to sign images in a way that UCP trusts them? (select three)**

Options are :

* *Approve image sign on UCP*
* *Configure Notary client*
* *Initialize trust metadata for the repository*
* *Delegate signing to the keys in your UCP client bundle*

**Answer :**Configure Notary client Initialize trust metadata for the repository Delegate signing to the keys in your UCP client bundle

**What is the command that need to be executed to sign an image before pushing it to repository?**

Options are :

* *export TRUST\_DOCKER\_CONTENT=1*
* *export DOCKER\_CONTENT\_TRUST=1*
* *export SIGN\_DOCKER\_IMAGE=1*
* *export TRUST\_DOCKER\_IMAGE=1*

**Answer :**export DOCKER\_CONTENT\_TRUST=1

**Docker security scan result is available in both UCP and DTR. True or false?**

Options are :

* *FALSE*
* *TRUE*

**Answer :**FALSE

**What is a grant made up of in Docker's Role Based Access Controls (RBAC)? (select three)**

Options are :

* *Subject*
* *Resource collection*
* *Certificate*
* *Role*

**Answer :**Subject Resource collection Role

**What are the two types of UCP client bundles?**

Options are :

* *Ops client bundles and dev client bundles*
* *Docker CLI bundles and Docker web UI bundles*
* *Admin user certificate bundles and user certificate bundles*
* *Docker UCP client bundles and DTR client bundles*

**Answer :**Admin user certificate bundles and user certificate bundles

**What is the difference between UCP workers and managers?**

Options are :

* *ucp-agent service automatically starts serving all UCP components in worker node, and only a proxy service in manager node*
* *ucp-agent service automatically starts serving all UCP components in manager node, and only a proxy service in worker node*

**Answer :**ucp-agent service automatically starts serving all UCP components in manager node, and only a proxy service in worker node

**Which of the following is NOT one of the 3 main Docker Container Network Model components?**

Options are :

* *Endpoint*
* *Routing*
* *Network*
* *Sandbox*

**Answer :**Routing

**Publishing a service's port using the routing mesh makes the service accessible at the published port on every swarm node. True or false?**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**What is the docker command to create a container with custom DNS server(s)?**

Options are :

* *docker container create --set-dns=IP\_ADDRESS*
* *docker container create --add-dns=IP\_ADDRESS*
* *docker container create --dns=IP\_ADDRESS*
* *docker container create --custom-dns=IP\_ADDRESS*

**Answer :**docker container create --dns=IP\_ADDRESS

**What is the command to set DNS server for all Docker containers?**

Options are :

* *dockerd --set-dns IP\_ADDRESS*
* *dockerd --dns IP\_ADDRESS*
* *dockerd --dns-update IP\_ADDRESS*
* *dockerd --dns-server IP\_ADDRESS*

**Answer :**dockerd --dns IP\_ADDRESS

**What type of network is ingress network?**

Options are :

* *macvlan network*
* *overlay network*
* *bridge network*
* *host network*

**Answer :**overlay network

**What is the docker command to connect a running container to an existing user-defined bridge?**

Options are :

* *docker network attach*
* *docker network connect*
* *docker connect network*
* *docker network join*

**Answer :**docker network connect

**What is the docker run option to publish a port so that an application is accesible externally?**

Options are :

* *docker run --open-port*
* *docker run --publish*
* *docker run --publish-port*
* *docker run --expose*

**Answer :**docker run --publish

**Which network driver type is best when the network stack should not be isolated from the Docker host, but you want other aspects of the container to be isolated?**

Options are :

* *Overlay networks*
* *Host networks*
* *Macvlan networks*
* *User-defined bridge networks*

**Answer :**Host networks

**What is the docker command to display detailed information on one or more networks?**

Options are :

* *docker network display*
* *docker network status*
* *docker inspect network*
* *docker network inspect*

**Answer :**docker network inspect

**Which of the following docker command can be used to find out all the ports mapped? (select three)**

Options are :

* *docker inspect*
* *docker network ls*
* *docker port*
* *docker ps*

**Answer :**docker inspect docker port docker ps

**What is the docker command to create a bridge network?**

Options are :

* *docker create network*
* *docker network add*
* *docker network create*
* *docker network deploy*

**Answer :**docker network add

**Which network driver type is best when you need containers running on different Docker hosts to communicate, or when multiple applications work together using swarm services?**

Options are :

* *Macvlan networks*
* *Overlay networks*
* *Host networks*
* *User-defined bridge networks*

**Answer :**Overlay networks

**Which of the following statements is false?**

Options are :

* *Linked containers on the default bridge network share environment variables*
* *User-defined bridges provide better isolation and interoperability between containerized applications*
* *User-defined bridges provide automatic DNS resolution between containers*
* *Containers can NOT be attached and detached from user-defined networks on the fly*
* *Each user-defined network creates a configurable bridge*

**Answer :**Containers can NOT be attached and detached from user-defined networks on the fly

**Which network driver type is best when you need multiple containers to communicate on the same Docker host?**

Options are :

* *Overlay networks*
* *User-defined bridge networks*
* *Host networks*
* *Macvlan networks*

**Answer :**User-defined bridge networks

**Which network driver type is best when you are migrating from a VM setup or need your containers to look like physical hosts on your network, each with a unique MAC address?**

Options are :

* *Macvlan networks*
* *Overlay networks*
* *User-defined bridge networks*
* *Host networks*

**Answer :**Macvlan networks

**You can monitor the status of UCP by using the web UI or the CLI. True or false?**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**What is the endpoint that we can use to check the health of a single UCP manager node?**

Options are :

* *https:///\_status*
* *https:///\_health*
* *https:///\_heartbeat*
* *https:///\_ping*

**Answer :**https:///\_ping

**What is the docker command to see container logs?**

Options are :

* *docker dump-logs*
* *docker logs*
* *docker debug*
* *docker fetch-logs*

**Answer :**docker logs

**Which of the following items need to be considered before installing Docker Enterprise?**

Options are :

* *Network ports*
* *Disk space*
* *Time Synchronization*
* *All of the options*
* *Docker Engine, DTR, and UCP version compatibility*

**Answer :**All of the options

**Which of the following tool to use to create users and teams?**

Options are :

* *Docker Machine*
* *Docker Trusted Registry (DTR)*
* *Universal Control Plane (UCP)*
* *Docker Compose*

**Answer :**Universal Control Plane (UCP)

**Which of the following is how to configure the Docker daemon to start on boot? (select two)**

Options are :

* *Use startup for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher)*
* *Use upstart for Ubuntu 14.10 and below*
* *Use systemd for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher)*
* *Use crond for Ubuntu 14.10 and below*

**Answer :**Use upstart for Ubuntu 14.10 and below Use systemd for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher)

**What is the correct order to backup Docker EE components?**

Options are :

* *Back up swarm, UCP, then DTR*
* *Back up DTR, UCP, then swarm*
* *Back up UCP, swarm, then DTR*
* *Back up swarm, DTR, then UCP*

**Answer :**Back up swarm, UCP, then DTR

**What is the docker command to see the storage driver Docker is currently using?**

Options are :

* *docker inspect*
* *docker stats*
* *docker info*
* *docker config*

**Answer :**docker info

**What is the docker command to find the current logging driver for a running container?**

Options are :

* *docker stats*
* *docker config*
* *docker inspect*
* *docker info*

**Answer :**docker inspect

**How to configure the default logging driver?**

Options are :

* *Set the "log-driver" option in the daemon.json file*
* *Use --log-driver flag*

**Answer :**Set the "log-driver" option in the daemon.json file

**What is a grant made up of in Docker's Role Based Access Controls (RBAC)? (select three)**

Options are :

* *Certificate*
* *Role*
* *Resource Collection*
* *Subject*

**Answer :**Role Resource Collection Subject

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**Where do you create Docker Role Based Access Controls (RBAC)?**

Options are :

* *Docker Machine*
* *Universal Control Plane*
* *Docker compose*
* *Docker Trusted Registry*

**Answer :**Universal Control Plane

**What is the docker command to add or update a node label?**

Options are :

* *docker node update --set-label*
* *docker node update --label-add*
* *docker node modify --set-label*
* *docker node add --label*

**Answer :**docker node update --label-add

**How would we back up Docker Swarm?**

Options are :

* *Back up the layered file systems of all containers running within the swarm.*
* *Back up the contents of /etc/docker/swarm on a Swarm manager.*
* *Back up the contents of /etc/docker on a Swarm manager.*
* *Back up the contents of /var/lib/docker/swarm on a Swarm manager.*

**Answer :**Back up the contents of /var/lib/docker/swarm on a Swarm manager.

[Docker Certified Associate (DCA) Practice Exams Set 16](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-16)

**Which of the following items need to be considered before installing Docker Enterprise?**

Options are :

* *Docker Engine, DTR , and UCP version Compatibility*
* *All of the above*
* *Disk Space*
* *Networks Ports*
* *Time Synchronization*

**Answer :**All of the above

**What Linux feature does Docker use in order to limit memory usage for containers?**

Options are :

* *The mem namespace.*
* *Capabilities*
* *Namespaces*
* *Control groups ( cgroups )*

**Answer :**Control groups ( cgroups )

**What is the docker command to update an existing service?**

Options are :

* *docker service change*
* *docker service update*
* *docker service modify*
* *docker service config*

**Answer :**docker service update

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Chris wants to execute a one-time job using a Docker container. However, occasionally, this job fails and needs to restart. Chris doesn't want to restart it manually if it fails. Which command should he use to make sure that the container executes the one-time job successfully?**

Options are :

* *docker run --restart on-failure cleanup-job*
* *docker run --recover-failure cleanup-job*
* *docker run --restart failure-only cleanup-job*
* *docker run --restart unless-stopped cleanup-job*

**Answer :**docker run --restart on-failure cleanup-job

**What is the docker command to see container logs?**

Options are :

* *docker fetch-logs*
* *docker dumo-logs*
* *docker debug*
* *dns logs*

**Answer :**dns logs

**What is the docker command to add or update a mount on a service?**

Options are :

* *docker service �add-update-mount*
* *docker service update �mount-add*
* *docker service �mount-volume*
* *docker service set �add-update-mount*

**Answer :**docker service update �mount-add

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**You can remove unused volumes using which command?**

Options are :

* *docker prune volume*
* *docker delete volume*
* *docker volume prune*
* *docker remove volume*

**Answer :**docker volume prune

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Which of the following actions allow you to scale an app? (select two)**

Options are :

* *Change the replicas value in the docker-compose.yml file*
* *Execute the 'docker stack deploy' command*
* *Enable autoscaling*
* *Execute the 'docker scale' command*

**Answer :**Change the replicas value in the docker-compose.yml file Execute the 'docker stack deploy' command

**Which of the following differences between user-defined bridges and the default bridge is FALSE?**

Options are :

* *Linked containers on the default bridge network share environment variables.*
* *Containers can be attached and detached from the default bridge network on the fly.*
* *User-defined bridges provide better isolation and interoperability between containerized applications.*
* *User-defined bridges provide automatic DNS resolution between containers.*

**Answer :**Containers can be attached and detached from the default bridge network on the fly.

**Which instruction sets the working directory for any RUN, CMD, ENTRYPOINT, COPY and ADD instructions that follow it in the Dockerfile?**

Options are :

* *EXECFOLDER*
* *PWD*
* *RUNIN*
* *WORKDIR*

**Answer :**WORKDIR

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Which docker feature enables each node in the swarm to accept connections on published ports for any service running in the swarm, even if there's no task running on the node? Hint: The features also routes all incoming requests to published ports on available nodes to an active container.**

Options are :

* *routing mesh*
* *load balancer*
* *VLANs*
* *firewall*

**Answer :**routing mesh

**The major difference between a container and an image is?**

Options are :

* *The size*
* *The bottom writable layer*
* *The top writable layer*
* *There is no difference*

**Answer :**The top writable layer

**When the container starts, it can be connected to multiple networks using '--network'**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**Which instruction adds metadata to an image?**

Options are :

* *TAG*
* *FROM*
* *LABEL*
* *ENTRYPOINT*

**Answer :**LABEL

**After restoring a swarm backup you should run 'docker swarm init' with which flag to ensure that the node does not attempt to connect to nodes that were part of the old swarm?**

Options are :

* *--force-init*
* *--force-new-cluster*
* *--restore*
* *--force*

**Answer :**--force-new-cluster

**Which instruction capable of copying files to the filesystem of the image at the path <dest> is more feature rich?**

Options are :

* *COPY*
* *ADD*

**Answer :**ADD

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**Services might remain in a pending state in which of the following scenarios?**

Options are :

* *When imposed placement constraints cannot be honored*
* *The amount of memory reserved for a service cannot be satisfied*
* *All nodes are paused or drained*
* *All of the scenarios are valid*

**Answer :**All of the scenarios are valid

**You can configure DTR to use your own certificates, so that it is automatically trusted by your users' browser and client tools**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**Which docker components can be described as "an executable package that includes everything needed to run an application--the code, a runtime, libraries, environment variables, and configuration files"?**

Options are :

* *Image*
* *Node*
* *Docker File*
* *Container*

**Answer :**Image

[Docker Certified Associate (DCA) Practice Exams Set 11](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-11)

**Which two modes does Docker provide for delivering messages from the container to the log driver?**

Options are :

* *blocking*
* *syncrhonous*
* *asynchronous*
* *non-blocking*

**Answer :**blocking non-blocking

**Each storage driver handles the implementation differently, but all drivers use stackable image layers and the copy-on-write (CoW) strategy.**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**By default, a container has no resource constraints and can use as much of a given resource as the host's kernel scheduler allows.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

[Docker and Containers: Commands Set 3](https://chercher.tech/docker-certification/docker-and-containers-commands-set-3)

**Which command will drain a node that had a task assigned to it?**

Options are :

* *docker task update drain*
* *docker node update --availability maintenance*
* *docker node update --availability drain*
* *docker service update --availability drain*

**Answer :**docker node update --availability drain

**Which docker component can be described as "a runtime instance of an image"?**

Options are :

* *Node*
* *Container*
* *Image*
* *Docker File*

**Answer :**Container

**Services are really just "containers in production."**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**The EXPOSE instruction does not actually publish the port.**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**Which instruction is used to set environmental variables?**

Options are :

* *ENV*
* *TAG*
* *ENTRYPOINT*
* *LABEL*

**Answer :**ENV

**With which type of mount is the data stored in the host system's memory only?**

Options are :

* *tempfs*
* *bind mounts*
* *volumes*
* *Regular*

**Answer :**tempfs

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**Which instruction informs Docker that a container listens on specified network ports at runtime?**

Options are :

* *FROM*
* *LABEL*
* *TAG*
* *EXPOSE*

**Answer :**EXPOSE

**When Docker is running in swarm mode, you cant run standalone containers on any of the Docker hosts participating in the swarm.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**Which of the following is not a supported logging driver?**

Options are :

* *syslog*
* *none*
* *azurelogs*
* *awslogs*
* *gcplogs*

**Answer :**azurelogs

[Docker Certified Associate (DCA) Practice Exams Set 14](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-14)

**Which command shows information logged by a running container?**

Options are :

* *docker logview*
* *docker logs*
* *docker container logs*
* *docker log inspect*

**Answer :**docker logs

**Which flags of 'docker swarm update' enable and/or disable autolock on an existing swarm? (select two)**

Options are :

* *--autolock=off*
* *--autolock=on*
* *--autolock=enable*
* *--autolock=disable*
* *--autolock=true*
* *--autolock=false*

**Answer :**--autolock=true --autolock=false

**Which of the following commands can be used to create a bind mount? (select two)**

Options are :

* *docker run -d --name test -v "$(pwd)"/testvol:/testvol ubuntu:latest*
* *docker volume make testvol -ro*
* *docker run -d --name test --mount type=bind,source="$(pwd)"/testvol,target=/testvol ubuntu:latest*
* *docker bind\_mount create testvol*

**Answer :**docker run -d --name test -v "$(pwd)"/testvol:/testvol ubuntu:latest docker run -d --name test --mount type=bind,source="$(pwd)"/testvol,target=/testvol ubuntu:latest

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**Which type of mount is a good choice when you do not want the data to persist either on the host machine or within the container?**

Options are :

* *bind mounts*
* *tempfs*
* *volumes*
* *Regular*

**Answer :**tempfs

**Which command is used to create a user-defined bridge network?**

Options are :

* *docker network create 'network name'*
* *docker make network 'network name'*
* *docker-network create 'network name'*
* *docker network 'network name' create*

**Answer :**docker network create 'network name'

**Macvlan networks can be created in which of the following modes? (select two)**

Options are :

* *Bridge mode*
* *Promiscuous mode*
* *Direct mode*
* *802.1q trunk bridge mode*

**Answer :**Bridge mode 802.1q trunk bridge mode

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**Setting a node to DRAIN also removes standalone containers from that node, freeing it up completely.**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**How long after a container successfully starts does a docker restart policy start monitoring the container?**

Options are :

* *30 seconds*
* *10 seconds*
* *60 seconds*
* *5 seconds*

**Answer :**10 seconds

**To have high-availability on UCP and DTR, you need a minimum of?**

Options are :

* *2 dedicated nodes to install UCP with high availability, and 3 dedicated nodes to install DTR with high availability.*
* *2 dedicated nodes to install UCP with high availability, and 2 dedicated nodes to install DTR with high availability.*
* *3 dedicated nodes to install UCP with high availability, and 2 dedicated nodes to install DTR with high availability.*
* *3 dedicated nodes to install UCP with high availability, and 3 dedicated nodes to install DTR with high availability*

**Answer :**3 dedicated nodes to install UCP with high availability, and 3 dedicated nodes to install DTR with high availability

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**Which type of mount has the side effect that you can change the host filesystem via processes running in a container, including creating, modifying, or deleting important system files or directories?**

Options are :

* *Regular*
* *bind mounts*
* *volumes*
* *tempfs*

**Answer :**bind mounts

**Bob runs a container with --net=host, which of the following will NOT true? There are already multiple containers running on the host.**

Options are :

* *The container will use host network namespace and the network interfaces and IP stack of the host.*
* *All containers in the host network are able to communicate with each other on the host interfaces.*
* *Because they are using the host networking namespace, two containers are able to bind to the same TCP port. (Correct)*
* *From a networking standpoint this is equivalent to multiple processes running on a host without containers.*

**Answer :**Because they are using the host networking namespace, two containers are able to bind to the same TCP port.

**By default all containers on the same Docker network (multi-host swarm scope or local scope) have connectivity with each other on \_\_\_\_\_ ports.**

Options are :

* *defined*
* *none*
* *some*
* *all (Correct)*

**Answer :**all

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**Overlay networks cannot be created if docker engine is not a manager node in docker swarm?**

Options are :

* *TRUE (Correct)*
* *FALSE*

**Answer :**TRUE

**Which of the following commands can be used to see IPv4 subnet of a network**

Options are :

* *docker network ls*
* *docker info network*
* *docker network info*
* *docker network inspect (Correct)*

**Answer :**docker network inspect

**You created a docker swarm with default address pool as this: 10.0.0.0/16 Now when you run the following command to create an overlay network - what IP subnet will be allocated to this overlay network? NOTE: X can be any value starting from 0 to 255 COMMAND: docker network create -d overlay --attachable my-attachable-overlay**

Options are :

* *10.0.X.0/24 (Correct)*
* *10.1.X.0/24*
* *10.2.X.0/24*
* *10.3.X.0/24*

**Answer :**10.0.X.0/24

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**What is the default address pool used by docker swarm for global scope overlay network?**

Options are :

* *10.0.0.1/16*
* *10.0.0.1/8 (Correct)*
* *172.0.0.1/8*
* *172.0.0.1/16*

**Answer :**10.0.0.1/8

**Grants in UCP are made up of which of the following?**

Options are :

* *subject, role and resource set (Correct)*
* *subject, role and containers*
* *nodes, role and containers*
* *subject, node and containers*
* *images, containers and nodes*

**Answer :**subject, role and resource set

**Which of the following is NOT true about a feature provided by namespace?**

Options are :

* *processes running within a container cannot see processes running in another container*
* *processes running within a container cannot see processes running on host system*
* *Namespaces let different sets of processes see different set of resources*
* *It can help in limiting the memory used by a container (Correct)*

**Answer :**It can help in limiting the memory used by a container

[Docker Certified Associate (DCA) Practice Exams Set 8](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-8)

**Which of the following is NOT true about control group?**

Options are :

* *Cgroups is a kernel level feature provided by docker (Correct)*
* *They implement resource accounting and limiting.*
* *they also help ensure that each container gets its fair share of memory, CPU, disk I/O; and*
* *they ensure that a single container cannot bring the system down by exhausting one of those resources.*

**Answer :**Cgroups is a kernel level feature provided by docker

**Which of the following is NOT true about seccomp?**

Options are :

* *seccomp = Secure Computing Mode*
* *seccomp allows a process to make a one-way transition into a "secure" state where it cannot make any system calls except exit(),*
* *Seccomp filtering provides a means for a process to specify a filter for incoming system calls*
* *seccomp is an application which can be installed independent of docker (Correct)*

**Answer :**seccomp is an application which can be installed independent of docker

**Which of the following is NOT true about selinux ?**

Options are :

* *SELinux= Security-Enhanced Linux*
* *SELinux provides a mechanism for supporting access control security policies*
* *SELinux comes bundled with docker (Correct)*
* *SELinux is a set of kernel modifications and user-space tools that have been added to various Linux distributions.*

**Answer :**SELinux comes bundled with docker

**The processes spawned by a container are run as what user by default?**

Options are :

* *any non root user*
* *root (Correct)*
* *guest-user*
* *user who executes docker run command*

**Answer :**root

**You want to ensure that a container doesn�t exceed memory usage than a specified amount. Which of the following will be used by default by docker to achieve that?**

Options are :

* *namespaces*
* *selinux*
* *cgroups (Correct)*
* *seccomp*

**Answer :**cgroups

**You had a security issue and you suspect that someone might have got access to the token for adding managers to your cluster. Since it�s a major security issue - you need to do something about it to prevent your cluster from being misused. What would you do?**

Options are :

* *Rotate your join-token for both worker and manager (Correct)*
* *Rotate your join-token only for manager and it will automatically rotate it for worker*
* *Rotate your join-token only for for worker and it will automatically rotate for manager*
* *You need not worry about it - docker swarm by default rotate token every hour*

**Answer :**Rotate your join-token for both worker and manager

**Bob wants to update the secret being used by one of his service. What is the correct sequence of actions to be performed by him?**

Options are :

* *Update the existing secret using docker secret update*
* *Update the existing secret , restart all the services using this secret*
* *Create a new secret, update the service to use this new secret , delete the old secret (Correct)*
* *Create a new secret, create a new service with this new secret, delete old secret and old service*

**Answer :**Create a new secret, update the service to use this new secret , delete the old secret

**Which of the following is NOT TRUE regarding to Docker config and Docker secrets?**

Options are :

* *Default location of configs inside of a container is / whereas the default location of secrets inside of a container is /run/secrets/*
* *Secrets and configs are encrypted during transit and at rest in a Docker swarm (Correct)*
* *Secrets uses ramdisk to mount the volume and configs does not.*
* *Both config and secret are encrypted in transit.*

**Answer :**Secrets and configs are encrypted during transit and at rest in a Docker swarm

**Which of the following is NOT true about docker volumes?**

Options are :

* *Volumes are easier to back up or migrate than bind mounts.*
* *You can manage volumes using Docker CLI commands but not with Docker API (Correct)*
* *Volumes work on both Linux and Windows containers*
* *New volumes can have their content pre-populated by a container.*

**Answer :**You can manage volumes using Docker CLI commands but not with Docker API

**Which of the following is NOT true?**

Options are :

* *Volumes can be more safely shared among multiple containers.*
* *Volume drivers let you store volumes on remote hosts or cloud providers, to encrypt the contents of volumes, or to add other functionality.*
* *While bind mounts are dependent on the directory structure of the host machine, volumes are completely managed by Docker*
* *Bind mount can only be mounted inside container in read only mode so as to prevent file corruption (Correct)*
* *Volumes are easier to back up or migrate than bind mounts.*

**Answer :**Bind mount can only be mounted inside container in read only mode so as to prevent file corruption

**Which of the following is NOT true about tmpfs\_mounts?**

Options are :

* *tmpfs mount increase the container�s performance by avoiding writing into the container�s writable layer.*
* *tmpfs mounts are available for both windows and linux (Correct)*
* *As opposed to volumes and bind mounts, a tmpfs mount is temporary, and only persisted in the host memory*
* *When the container stops, the tmpfs mount is removed, and files written there won�t be persisted.*

**Answer :**tmpfs mounts are available for both windows and linux

**Which of the following lvm mode should a production host using the devicemapper as a storage driver use?**

Options are :

* *loop-lvm*
* *overlay*
* *direct-lvm (Correct)*
* *zfs*

**Answer :**direct-lvm

**Which of the following options is NOT backed up when you backup UCP?**

Options are :

* *Configurations*
* *Configs and Secrets (Correct)*
* *Metrics from monitoring data*
* *Named volumes*

**Answer :**Configs and Secrets

**What is the correct order a system administrator should follow for creating a backup policy for the Docker Enterprise Edition?**

Options are :

* *swarm, ucp, dtr (Correct)*
* *dtr, ucp, swarm*
* *ucp, dtr, swarm*
* *swarm, dtr, ucp*

**Answer :**swarm, ucp, dtr

**Which of the following options below can be used for scaling the nginx service on a Docker Swarm?**

Options are :

* *docker swarm scale nginx=3*
* *docker service scale nginx=3 (Correct)*
* *docker service --replicas=3 nginx*
* *docker swarm --replicas=3 nginx*

**Answer :**docker service scale nginx=3

**Bob is running a docker swarm cluster with multiple manager nodes. Bob needs to remove one the manager nodes from the cluster permanently. Bob has access to this manager node. What is the safest way for him to remove a manager node from the cluster?**

Options are :

* *Simply shut down the server and let the Raft quorum decides to remove it permanently from the swarm.*
* *Run "docker swarm leave" on the specific node.*
* *Firstly demote the manager node to a worker and then remove it using "docker swarm leave" (Correct)*
* *Stop the docker service on this specific manager node. Wait until its status change to 'Unreachable' by checking the status on another manager node. Once it disappears from the list of manager nodes, you can safely shut down this node.*

**Answer :**Firstly demote the manager node to a worker and then remove it using "docker swarm leave"

**You are running a Docker Swarm with autolock feature enabled. Which of the following statement below is NOT TRUE regarding to autolock feature in Docker?**

Options are :

* *You need the unlock key in case one of the manager node was restarted.*
* *The autolock feature was created to encrypt secrets in the Raft logs securely.*
* *A worker node can join in a cluster without the need of the autolock key.*
* *If you lost the unlock key, you must create a new one from the manager node by rotating the unlock key. (Correct)*

**Answer :**If you lost the unlock key, you must create a new one from the manager node by rotating the unlock key.

**You are running a Docker Trusted Registry in your swarm with 5 replicas. You also maintain a routine backup of this service. One day, some worker nodes failed. Because of that, some services were affected, including 2 replicas of the Docker Trusted Registry. Do you have to start a restore process from the backup files?**

Options are :

* *TRUE*
* *FALSE (Correct)*

**Answer :**FALSE

**You are running a fleet of swarm nodes on AWS. Your nodes are part of an Autoscaling group, where instances are automatically created and/or destroyed. You have a 3rd party solution that collects metrics from your host and it will run in your swarm as a service. You must ensure that this task is being run on every node and must not consume more than 512 Mb of RAM. Which of the following commands below meet this criteria?**

Options are :

* *docker service create --mode=global --name node-exporter --constraint 'node.max-memory==512M' prom/node-exporter:latest*
* *docker service create --mode=replicated --name node-exporter --constraint 'node.max-memory==512M' --replicas=1 prom/node-exporter:latest*
* *docker service create --mode=global --name node-exporter --limit-memory=512m prom/node-exporter:latest (Correct)*
* *docker service create --mode=replicated --name node-exporter --limit-memory=512m --replicas=1 prom/node-exporter:latest*

**Answer :**docker service create --mode=global --name node-exporter --limit-memory=512m prom/node-exporter:latest

**DCT stands for?**

Options are :

* *Docker Content Transmission*
* *Docker Container Transmission*
* *Docker Certificate Trust*
* *Docker Content Trust (Correct)*

**Answer :**Docker Content Trust

**Which of the following is a good distribution of 7 managers across 3 availability zones?**

Options are :

* *2 - 2 - 3 (Correct)*
* *3 - 1 - 3*
* *1 - 1 - 5*
* *1 - 2 - 4*

**Answer :**2 - 2 - 3

**Fill in the blanks: A stack is a collection of \_\_\_\_\_\_ that make up an application in a specific environment**

Options are :

* *containers*
* *files*
* *services (Correct)*
* *images*

**Answer :**services

**Domain: Networking**

**Overlay networks cannot be created if Docker engine is not a manager node in Docker swarm?**

Options are :

* *False*
* *True (Correct)*

**Answer :**True

**Domain: Orchestration**

**Your company needs to run a custom monitoring application published in Docker Hub called "examplecorp/stats-collector". You must ensure this would run in all swarm nodes, regardless how many nodes you currently have or if a new one would join the swarm eventually. This monitoring system requires an environment variable called ENDPOINT\_ADDRESS that sends the metrics to an external service hosted at 'service.example.com'. Which of the following commands would accomplish these requirements?**

Options are :

* *Docker service create --names stats-collector --replicas=auto --entry point ADDRESS="service.example.com" examplecorp /stats-collector (Correct)*
* *Docker service create --names stats-collector --replicas=1 --entry point ADDRESS="service.example.com" examplecorp /stats-collector*
* *Docker service create --names stats-collector --replicas=auto --entry point ADDRESS="service.example.com" examplecorp /stats-collector*
* *Docker service create --names stats-collector --model=replicated �e ENDPOINT\_ADDRESS="service.example.com" examplecorp /stats-collector*

**Answer :**Docker service create --names stats-collector --replicas=auto --entry point ADDRESS="service.example.com" examplecorp /stats-collector

**Domain: Orchestration**

**Which one is a valid command to run a global service in Docker swarm?**

Options are :

* *Docker swarm create --global*
* *Docker service create --global*
* *Docker service create --mode global (Correct)*
* *Docker swarm create --mode global*

**Answer :**Docker service create --mode global

**Domain: Orchestration**

**Which of the following is NOT TRUE about running a stack of services?**

Options are :

* *Docker stack can run without docker swarm (Correct)*
* *The docker-compose.yaml file can be used both on docker stack and docker-compose*
* *The docker-compose.yaml file must be version 3.0 or higher in order to use it in a stack*

**Answer :**Docker stack can run without docker swarm

**Domain: Installation and Configuration**

**Bob has configured his Docker daemon to use syslog log driver by default, how can he run a container which uses json-file log driver?**

Options are :

* *By using "--log-opt json-file along with Docker run*
* *Not possible*
* *By using "--log-driver json-file along with Docker run (Correct)*

**Answer :**By using "--log-driver json-file along with Docker run

**Domain: Image Creation, Management, and Registry**

**Given the following Dockerfile below:**

**FROM ubuntu**

**ENTRYPOINT ["exec\_entry", "p1\_entry"]**

**CMD exec-cmd p1\_cmd**

**What is the command that gets executed when someone runs the image built using this Dockerfile?**

Options are :

* *exec-entry p1\_entry*
* *exec-entry p1\_entry /bin/sh/ -c "exec-cmd p1\_cmb" (Correct)*
* *exec-entry p1\_entry exec\_cmd p1\_cmd*

**Answer :**exec-entry p1\_entry /bin/sh/ -c "exec-cmd p1\_cmb"

**Domain: Orchestration**

**Which of the following statements is NOT TRUE regarding to running a container vs running a service?**

Options are :

* *Docker secrets is available while running your container image as a service.*
* *You can run multiple copies of a container image in both cases*
* *You can achieve fault-tolerance running multiple copies of a container image without the need to run them as a service (Correct)*
* *Running your container image as a service eliminates the needs of setting up a load balancer.*

**Answer :**You can achieve fault-tolerance running multiple copies of a container image without the need to run them as a service

**Domain: Image Creation, Management, and Registry**

**Which of the following patterns would exclude all Python byte-code files from being copied during the Docker image creation process?**

Options are :

* *\*.pyc*
* *\*\*.pyc*
* */\*.pyc*
* *\*\* /\*.pyc (Correct)*

**Answer :**\*\* /\*.pyc

**Domain: Image Creation, Management, and Registry**

**Which of the following is a valid flag to not use cache while doing a docker build?**

Options are :

* *--cache-false*
* *--no-cache-true (Correct)*
* *--no-cache (Correct)*
* *You can not disable caching with docker build*

**Answer :**--no-cache-true --no-cache

**Domain: Installation and Configuration**

**Which of the following options would enable to SSH into a running Docker container named 'nginx'?**

Options are :

* *Docker run -it nginx /bin /sh*
* *Docker ssh -it nginx /bin /sh*
* *Docker exec -it nginx /bin /sh (Correct)*
* *Docker inspect webserver*

**Answer :**Docker exec -it nginx /bin /sh

**Domain: Networking**

**Bob runs a container with --net=host, which of the following will NOT true? There are already multiple containers running on the host.**

Options are :

* *Because they are using the host networking namespace, two containers are able to bind to the same TCP port (Correct)*
* *The container will use host network namespace and the network interfaces and IP stack of the host*
* *All containers in the host network are able to communicate with each other on the host interfaces*

**Answer :**Because they are using the host networking namespace, two containers are able to bind to the same TCP port

**Domain: Installation and Configuration**

**The feature of limiting memory while running a container is provided by which of the following?**

Options are :

* *Systemd*
* *Namespaces*
* *Cgroups (Correct)*
* *Selinux*

**Answer :**Cgroups

**Domain: Installation and Configuration**

**Bob wants to debug some issues happening with his docker daemon running on a linux system, he made some changes to his docker daemon using daemon.json file, now he wants docker to reload those changes but he can�t restart docker because he has something critical running on it, which of the following might help him achieve that?**

Options are :

* *Sudo systemctl restart $(pid of dockerd)*
* *Sudo kill -SIGNUP $(pidof dockerd) (Correct)*
* *Sudo kill -1 $(pid of dockerd)*
* *Sudo kill -9 $(pid of dockerd)*

**Answer :**Sudo kill -SIGNUP $(pidof dockerd)

**Domain: Orchestration**

**Which of the following version of "docker-compose.yml" files can you use with "docker stack" command?**

Options are :

* *Version 3 and above (Correct)*
* *Version 2 and above*
* *Any version*
* *Version 1 and above*

**Answer :**Version 3 and above

**Domain: Networking**

**What is the default address pool used by docker swarm for global scope overlay network?**

Options are :

* *172.0.0.1/16*
* *172.0.0.1/8*
* *10.0.0.1/8 (Correct)*
* *10.0.0.1/16*

**Answer :**10.0.0.1/8

**Domain: Image Creation, Management, and Registry**

**Which of the following is true about Entrypoint of an Image.**

Options are :

* *It is defined while creating the image and cannot be overridden*
* *It is the script that anyone using the image must execute to initialize things inside container*
* *Entrypoint must be a script*
* *It is a command that will be executed anytime a container is created using the image (Correct)*

**Answer :**It is a command that will be executed anytime a container is created using the image

**Domain: Orchestration**

**A global service is a service that runs\_\_\_\_task/tasks on every node that meet the placement and resource constraints**

Options are :

* *Many*
* *None*
* *One (Correct)*
* *More than one*

**Answer :**One

**Domain: Orchestration**

**Which one is a valid command to run a global service in docker swarm?**

Options are :

* *Docker swarm create --mode global*
* *Docker service create --mode global (Correct)*
* *Docker service create --global*
* *Docker swarm create --global*

**Answer :**Docker service create --mode global

**Domain: Networking**

**You are setting up a new Docker Swarm on AWS. You must ensure that the traffic between hosts are not block either by the Security Group Rules nor by Network Access Control List. Which of the following answers covers all ports that must be allowed between Docker hosts?**

Options are :

* *TCP/2337, TCP/7946 and UDP/7946 (Correct)*
* *TCP/7946 and UDP/2377*
* *TCP/2337 and TCP/4789*
* *TCP/2337 and UDP/2377*

**Answer :**TCP/2337, TCP/7946 and UDP/7946

**Domain: Orchestration**

**Which of the following is NOT true regarding docker swarm mode?**

Options are :

* *You can deploy both kinds of nodes, managers and workers using the Docker Engine*
* *Docker swarm mode is a plugin which you can install alongside docker to run a cluster of docker engines (Correct)*
* *For each service you can declare the number of tasks you want to run. When you scale up and down, the swarm manager automatically adapts by adding or removing tasks to maintain the desired state.*
* *The swarm manager automatically assigns addresses to the containers on the overlay network when it initializes or updates the application*

**Answer :**Docker swarm mode is a plugin which you can install alongside docker to run a cluster of docker engines

**Domain: Networking**

**Which of the following commands can be used to see IPv4 subnet of a network?**

Options are :

* *Docker network inspect (Correct)*
* *Docker network Ls*
* *Docker info network*
* *Docker network info*

**Answer :**Docker network inspect

**Domain: Orchestration**

**Which of the following statement below is NOT TRUE about docker-compose?**

Options are :

* *Docker-compose cannot be used to create new container images*
* *Docker-compose cannot be used with docker swarm to run services across different workers (Correct)*
* *Docker-compose will bring up services as specified in docker-compose.yml*
* *Docker-compose is well suited for development environments*

**Answer :**Docker-compose cannot be used with docker swarm to run services across different workers

**Domain: Security**

**You want to ensure that a container doesn�t exceed memory usage than a specified amount. Which of the following will be used by default by Docker to achieve that?**

Options are :

* *Seccomp*
* *Namespaces*
* *Selinux*
* *Cgroups (Correct)*

**Answer :**Cgroups

**Domain: Orchestration**

**What is docker command to create swarm?**

Options are :

* *Docker swarm initialize*
* *Docker swarm init (Correct)*
* *Docker swarm join*
* *Docker swarm start*

**Answer :**Docker swarm init

**Domain: Installation and Configuration**

**Bob did a fresh installation of docker on his new linux server. He hasn�t tinkered with anything and has just installed docker packages from official repository. He runs a new container with command �docker run -d nginx� , which logging driver will this container use?**

Options are :

* *Json.file (Correct)*
* *Logentries*
* *Syslog*
* *Journald*

**Answer :**Json.file

**Domain: Security**

**Fill in the blanks**

**A client bundle is a group of \_\_\_\_\_\_ downloadable directly from the https://docs.docker.com/datacenter/ucp/2.2/guides/ user interface. It allows you to authorize a remote Docker engine to a specific user account managed in Docker EE.**

Options are :

* *Certificates (Correct)*
* *Images*
* *Containers*
* *Binaries*

**Answer :**Certificates

**Domain: Installation and Configuration**

**Which is the default location of a config file when using Docker config?**

Options are :

* */van/run/*
* */ (Correct)*
* */run/config/*
* */config/*

**Answer :**/

**Domain: Image Creation, Management, and Registry**

**If we don't specify a tag, then by convention which tag is pulled while running docker pull command?**

Options are :

* *Staging*
* *Latest (Correct)*
* *Production*
* *Master*

**Answer :**Latest

**Domain: Networking**

**Which of the following commands can be used to attach an existing network named 'net1' to a container 'container1' which is currently running in network named 'net2'?**

Options are :

* *Docker network connect net1 net2 container1*
* *Docker connect network net1 net2*
* *Docker network connect net1 container1 (Correct)*

**Answer :**Docker network connect net1 container1

**Domain: Storage and Volumes**

**Which of the following commands can be used to check the storage driver which we are using?**

Options are :

* *Docker node inspect*
* *Docker system events*
* *Docker info (Correct)*
* *Docker plugin inspect*

**Answer :**Docker info

**What would be the output of the final pwd command of a container built from the following Dockerfile?**

1. **FROM alpine**
2. **WORKDIR /a**
3. **WORKDIR /b**
4. **WORKDIR c**
5. **CMD pwd**

Options are :

* */*
* */c*
* */b/c (Correct)*
* */a*

**Answer :**/b/c

**How can you find untagged images?**

Options are :

* *docker images --filter "dangling=true" (Correct)*
* *docker images --filter "tagged=false"*
* *docker images --format "tagged=false"*
* *docker images --format "dangling=true"*

**Answer :**docker images --filter "dangling=true"

**Which docker entity can be described as "an executable package that includes everything needed to run an application--the code or binary, a runtime, libraries, environment variables, and configuration files"?**

Options are :

* *Image (Correct)*
* *Docker File*
* *Node*
* *Container*

**Answer :**Image

**What is the purpose of the FROM directive?**

Options are :

* *It indicates the build context.*
* *It pulls a file from an external source into the image.*
* *It sets a base image that can be used for subsequent instructions. (Correct)*
* *It sets the working directory of containers ran using the image.*

**Answer :**It sets a base image that can be used for subsequent instructions.

**ARG variables are persisted into the built image the same as the ENV variables.**

Options are :

* *FALSE (Correct)*
* *TRUE*

**Answer :**FALSE

**A docker file must always be named Dockerfile?**

Options are :

* *TRUE*
* *FALSE (Correct)*

**Answer :**FALSE

**Which of the following Dockerfile directive is used to add metadata to a docker image?**

Options are :

* *ADD*
* *ARG*
* *LABEL (Correct)*
* *METADATA*

**Answer :**LABEL

**Which of the following directive will execute a command at build time?**

Options are :

* *CMD*
* *RUN (Correct)*

**Answer :**RUN

**What is the Dockerfile LABEL option used for?**

Options are :

* *Tells Docker how to test a container to check that it is still working.*
* *Label a container that will run as an executable*
* *Adds metadata to an image (Correct)*
* *Provide defaults for an executing container*

**Answer :**Adds metadata to an image

**It is good practice to have more than one RUN instruction in the Docker file?**

Options are :

* *FALSE*
* *TRUE (Correct)*

**Answer :**TRUE

**Which command can you use to display the layers of a docker image?**

Options are :

* *docker image layers*
* *docker layers*
* *docker image info*
* *docker image history (Correct)*

**Answer :**docker image history

**Which of the following instructions can be used to specify variables that are available to the RUN instruction?**

Options are :

* *Both ARG and ENV are valid (Correct)*
* *ENV*
* *ARG*

**Answer :**Both ARG and ENV are valid

**Which of the following options is NOT a valid way to tag a Docker image?**

Options are :

* *Tag an image referenced by Name*
* *Tag an image referenced by user ID (Correct)*
* *Tag an image referenced by Name and Tag*
* *Tag an image referenced by image ID*

**Answer :**Tag an image referenced by user ID

**Can you save a Docker image in multiple repositories after the build?**

Options are :

* *TRUE (Correct)*
* *FALSE*

**Answer :**TRUE

**Which command returns detailed information on a Docker Image?**

Options are :

* *docker image info*
* *docker image stats*
* *docker image inspect (Correct)*
* *docker image history*

**Answer :**docker image inspect

**DTR only allows deleting images that are signed. True or false?**

Options are :

* *FALSE (Correct)*
* *TRUE*

**Answer :**FALSE

**Which directive informs Docker that a container listens on specified network ports at runtime?**

Options are :

* *ENV*
* *TAG*
* *LABEL*
* *EXPOSE (Correct)*

**Answer :**EXPOSE

**In Docker Trusted Registry, how would a user prevent an image from being overwritten by another user which has push access to the repository?**

Options are :

* *Use the DTR web UI to make the tag immutable. (Correct)*
* *Tag the image with 'nginx:immutable'*
* *Remove push access from all other users.*
* *Keep a backup copy of the image on another repository.*

**Answer :**Use the DTR web UI to make the tag immutable.

**Which of the following commands can be used to find the architecture and operating system an image is compatible with?**

Options are :

* *docker image ls*
* *docker image info*
* *docker image inspect --filter '{?{.Architecture}} {?{.Os}}'*
* *docker image inspect --format '{?{.Architecture}} {?{.Os}}' (Correct)*

**Answer :**docker image inspect --format '{?{.Architecture}} {?{.Os}}'

**Who is responsible to run the docker build command?**

Options are :

* *docker engine*
* *docker-machine*
* *docker daemon (Correct)*
* *docker cli*

**Answer :**docker daemon

**The Dockerfile instruction EXPOSE publish the port to external systems. True or false?**

Options are :

* *FALSE (Correct)*
* *TRUE*

**Answer :**FALSE

**The following Dockerfile results in an image after the build. What happens when executing docker run using this image?**

1. **FROM ubuntu**
2. **RUN mkdir /myvol**
3. **RUN echo "hello world" > /myvol/greeting**
4. **VOLUME /myvol**

Options are :

* *Nothing happens. The volume was created while building the image.*
* *It creates a new empty mount point at /myvol.*
* *It creates a new mount point at /myvol and copy the greeting file into the newly created volume. (Correct)*

**Answer :**It creates a new mount point at /myvol and copy the greeting file into the newly created volume.

**When using the Docker client to push an image to a registry, which environment variable is used to instruct the client to perform signing of the image?**

Options are :

* *DOCKER\_IMAGE\_SIGN=1*
* *DOCKER\_CONTENT\_TRUST=1 (Correct)*
* *DOCKER\_PUSH\_SIGN=1*
* *NOTARY\_ENABLE=1*

**Answer :**DOCKER\_CONTENT\_TRUST=1

**Which of the following docker command can remove an image, even if that image is used by a running container?**

Options are :

* *docker rmi [image name] --force (Correct)*
* *docker rm [image name] --force*
* *None of the answers is correct.*
* *docker remove [image name]*

**Answer :**docker rmi [image name] --force

**Which command can be used to upload an image to a registry?**

Options are :

* *docker upload [OPTIONS] NAME[:TAG]*
* *docker push [OPTIONS] NAME[:TAG] (Correct)*
* *docker store [OPTIONS] NAME[:TAG]*
* *docker commit [OPTIONS] NAME[:TAG]*

**Answer :**docker push [OPTIONS] NAME[:TAG]

**What is the purpose of a HEALTCHECK instruction within a Dockerfile?**

Options are :

* *Instructs Docker how to test a container to check that it is still working. (Correct)*
* *Defines the health check endpoint for external monitoring tools to monitor the health of the docker engine.*
* *To check if the server process is running.*
* *Defines a heartbeat interval.*

**Answer :**Instructs Docker how to test a container to check that it is still working.

**What would be the output of the final pwd command of a container built from the following Dockerfile?**

1. **FROM alpine:latest**
2. **WORKDIR /a**
3. **WORKDIR b**
4. **WORKDIR c**
5. **CMD [ '/bin/bash', 'pwd' ]**

Options are :

* */a*
* */a/b/c (Correct)*
* *b*
* *c*

**Answer :**/a/b/c

**Which of the following is true about docker image rm command?**

Options are :

* *Remove dangling images.*
* *Remove unused images.*
* *Remove one or more images. (Correct)*
* *Show the history of an image.*

**Answer :**Remove one or more images.

**What represents a build context that should be considered when building an image?**

Options are :

* *All the files found in a specific path or URL (Correct)*
* *Dockerfile found in a specific path or URL*
* *All dependencies already installed on docker-machine*
* *The configuration of the daemon*

**Answer :**All the files found in a specific path or URL

**What is the final outcome of a container created from the following Dockerfile?**

1. **FROM busybox:latest**
2. **ENTRYPOINT ["/bin/ping","-c","5"]**
3. **CMD ["localhost"]**

Options are :

* *Container will ping the localhost for 5 times and will stop running. (Correct)*
* *Container will get stuck in infinite pinging loop.*
* *Container will remain in created state.*
* *Container will ping localhost for 5 times and will return to its shell.*

**Answer :**Container will ping the localhost for 5 times and will stop running.

**Which two new networks are created on a Docker host when you initialize a swarm or join a Docker host to an existing swarm? (select two)**

Options are :

* *an overlay network called ingress*
* *a host network called docker\_hostbridge*
* *a bridge network called docker\_gwbridge*
* *a none network call swarm\_null*

**Answer :**an overlay network called ingress a bridge network called docker\_gwbridge

**In the output below, what do the IDs next to the "Pull complete" message indicate?**

**$ docker pull ubuntu:15.0415.04:**

**Pulling from library/ubuntu**

**1ba8ac955b97: Pull complete**

**f157c4e5ede7: Pull complete**

**0b7e98f84c4c: Pull complete**

**a3ed95caeb02: Pull complete**

**Digest: sha256:5e279a9df07990286cce22e1b0f5b0490629ca6d187698746ae5e28e604a640e**

**Status: Downloaded newer image for ubuntu:15.04**

Options are :

* *Layers of the image*
* *File parts*
* *Container IDs*
* *Image IDs*

**Answer :**Layers of the image

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**In order to scale your app with docker stack deploy, it is required to tear down the existing stack first**

Options are :

* *FALSE*
* *TRUE*

**Answer :**FALSE

**If you want to create a services but prevent it from being deployed you should?**

Options are :

* *Configure it in such a way that it remains in pending*
* *Scale the service to 0*

**Answer :**Scale the service to 0

**The ucp-agent runs on both manager and worker nodes**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**Which of the following are valid values of the --restart flag for docker run?**

Options are :

* *always*
* *on-failure*
* *no*
* *unless-stopped*
* *on-error*
* *never*

**Answer :**always on-failure no unless-stopped

**By default Docker Swarm uses which default address pool?**

Options are :

* *10.0.0.0/8*
* *172.16.0.0/12*
* *192.168.0.0/16*
* *10.0.0.0/16*

**Answer :**10.0.0.0/8

**On Linux systems the Docker daemon is configured using a JSON file, create a file at?**

Options are :

* */etc/docker/startup.json*
* */opt/docker/daemon.json*
* */etc/docker/daemon.json*
* */var/docker/daemon.json*

**Answer :**/etc/docker/daemon.json

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**Which 'docker create' option allows you to join a container to a network?**

Options are :

* *--joinnetwork*
* *--bindto*
* *--network*
* *-attachnet*

**Answer :**--network

**Docker CE is available on multiple platforms. Which of the following are not valid operating systems to run Docker CE Server?**

Options are :

* *Centos*
* *Ubuntu*
* *Debian*
* *Fedora*
* *Windows Server 2012*

**Answer :**Windows Server 2012

**Docker can manage the block device for you, simplifying configuration of direct-lvm mode, when using the devicemapper storage driver**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

[Docker Certified Associate (DCA) Practice Exams Set 14](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-14)

**Which command builds a docker image from a dockerfile?**

Options are :

* *docker build*
* *docker create*
* *docker make*
* *docker image*

**Answer :**docker build

**Which command is used to see which nodes are running the service?**

Options are :

* *docker ps*
* *docker top*
* *docker swarm ps*
* *docker service ps*

**Answer :**docker service ps

**Docker has an enterprise-grade image storage solution that you can install behind your firewall so that you can securely store and manage the Docker images you use in your applications. What is it called?**

Options are :

* *Docker Hub*
* *Docker Image Repo*
* *Docker Trusted Registry (DTR)*
* *Docker Container Registry*

**Answer :**Docker Trusted Registry (DTR)

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**Which command is used to enable swarm mode and make the machine, where the command is run, the current machine a swarm manager?**

Options are :

* *docker swarm -i*
* *docker swarm init*
* *docker swarm create*
* *docker swarm zoom zoom*

**Answer :**docker swarm init

**In which model, does the swarm manager run one task for the service on every available node in the cluster?**

Options are :

* *global*
* *distributed*
* *replicated*
* *balanced*

**Answer :**global

**In which model, does the swarm manager distribute a specific number of replica tasks among the nodes based upon the scale you set in the desired state?**

Options are :

* *replicated*
* *balanced*
* *distributed*
* *global*

**Answer :**replicated

[Docker Certified Associate (DCA) Practice Exams Set 11](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-11)

**Which docker run flag should you use to configure the restart policy for a container?**

Options are :

* *--restart-policy*
* *--restart*
* *--stayonline*
* *--start*

**Answer :**--restart

**Which type of file defines how Docker containers should behave in production?**

Options are :

* *Docker Template*
* *Dockerflie*
* *docker-compose.yml*
* *Docker Service definition*

**Answer :**docker-compose.yml

**Docker CE is available on multiple platforms. Which of the following are valid operating systems to run Docker CE Desktop? (select two)**

Options are :

* *MacOS*
* *Windows 10*
* *Linux*
* *Windows 8*

**Answer :**MacOS Windows 10

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**Which of the following docker image commands display detailed information on one or more images?**

Options are :

* *docker image detail*
* *docker image history*
* *docker image ls*
* *docker image inspect*

**Answer :**docker image inspect

[Docker Certified Associate (DCA) Practice Exams Set 16](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-16)

**You want to ensure that a container doesn't exceed memory usage than a specified amount. Which of the following will be used by default by docker to achieve that?**

Options are :

* *cgroups*
* *selinux*
* *secomp*
* *namespaces*

**Answer :**cgroups

**Which of the following commands can be used to see IPv4 subnet of a network**

Options are :

* *docker network inspect*
* *docker info network*
* *docker network info*
* *docker network ls*

**Answer :**docker network inspect

**Docker image is built up from a series of layers and each layer represents an instruction in the image's Dockerfile. True or false?**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**Which of the following is true about Entrypoint of an Image.**

Options are :

* *It's the script that anyone using the image must execute to initialize things z inside container .*
* *It's a command that will be executed anytime a container is created using the image.*
* *It is defined while creating the image and cannot be overridden*
* *Entrypoint must be a script.*

**Answer :**It's a command that will be executed anytime a container is created using the image.

**Given Dockerfile**

**FROM ubuntu**

**ENTRYPOINT ["exec\_entry", "p1\_entry"]**

**CMD exec-cmd p1\_cmd**

**What is the command that gets executed when someone runs the image built using this Dockerfile?**

Options are :

* */bin/sh -c " exec-cmd p1\_cmd "*
* *exec\_entry p1\_entry /bin/sh -c " exec-cmd p1\_cmd "*
* *exec\_entry p1\_entry z exec\_cmd p1\_cmd B*
* *exec\_entry p1\_entry*
* */bin/sh -c "exec\_entry p1\_entry" /bin/sh -c " exec-cmd p1\_cmd "*

**Answer :**exec\_entry p1\_entry /bin/sh -c " exec-cmd p1\_cmd "

**Which statement is true about DTR garbage collection?**

Options are :

* *Garbage collection removes containers from cluster nodes.*
* *Garbage collection removes DTR images that are older than a configurable of days.*
* *Garbage collection removes unused volumes from cluster node.*
* *Garbage collection removes unreferenced image layers from DTR backend storage.*

**Answer :**Garbage collection removes unreferenced image layers from DTR backend storage.

[Docker and Containers: Commands Set 4](https://chercher.tech/docker-certification/docker-and-containers-commands-set-4)

**What is the difference between the ADD and COPY dockerfile instructions? (select 2)**

Options are :

* *COPY supports regular expression handling while ADD does not.*
* *ADD supports compression format handling while COPY does not.*
* *ADD supports regular expression handling while COPY does not.*
* *COPY supports compression format handling while ADD does not.*
* *ADD supports remote URL handling while COPY does not.*

**Answer :**ADD supports compression format handling while COPY does not. ADD supports remote URL handling while COPY does not.

**When using the Docker client to push an image to a registry, what environment variable is used to instruct the client to perform signing of the image?**

Options are :

* *NOTARY\_ENABLE=1*
* *DOCKER\_CONTENT\_TRUST=1*
* *DOCKER\_IMAGE\_CERTS=1*
* *DOCKER\_PUSH\_SIGN=1*

**Answer :**DOCKER\_CONTENT\_TRUST=1

**What is the default address pool used by docker swarm for global scope overlay network?**

Options are :

* *172.0.0.1/8*
* *10.0.0.1/16*
* *10.0.0.1/8*
* *172.0.0.1/16*

**Answer :**10.0.0.1/8

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**Each container shares common writable container layer ?**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

**To Grants in UCP are made up of which of the following?**

Options are :

* *nodes, role and containers*
* *subject, node and containers*
* *images, containers and nodes*
* *subject, role and resource set*
* *subject, role and containers*

**Answer :**subject, role and resource set

**Which of the following does "docker-compose up" automatically create, even if not manually specified in the compose file?**

Options are :

* *backup*
* *Restore*
* *Network*
* *Registry*

**Answer :**Network

[Docker Certified Associate (DCA) Practice Exams Set 14](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-14)

**The feature of limiting memory while running a container is provided by which of the following?**

Options are :

* *systemd*
* *namespaces*
* *selinux*
* *cgroups*

**Answer :**cgroups

**Which of the following gives a web dashboard to manage docker cluster?**

Options are :

* *Docker UCP*
* *DTR*
* *Docker Compose*
* *Docker Swarm Mode*

**Answer :**Docker UCP

**Which one is a valid command to run a global service in docker swarm?**

Options are :

* *docker service create --mode global*
* *docker swarm create --mode global*
* *docker swarm create --global*
* *docker service create --global*

**Answer :**docker service create --mode global

[Docker and Containers: Commands Set 3](https://chercher.tech/docker-certification/docker-and-containers-commands-set-3)

**What is the docker command to pull an image or a repository from a registry?**

Options are :

* *docker checkout*
* *docker build*
* *docker deploy*
* *docker pull*

**Answer :**docker pull

**Which of the following is NOT true about control group?**

Options are :

* *They also help ensure that each container gets its fair share of memory, CPU, disk I/O.*
* *They ensure that a single container cannot bring the system down by exhausting one z of those resources.*
* *They implement resource accounting and limiting.*
* *Cgroups is a kernel level feature provided by docker.*

**Answer :**Cgroups is a kernel level feature provided by docker.

**Dockerfile option EXPOSE publish the port to external systems.?**

Options are :

* *TRUE*
* *FALSE*

**Answer :**FALSE

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**You created a docker swarm cluster using "docker swarm init" command. After creating the swarm cluster you got a command using which you could add a worker to your cluster. But you have lost that command and now you want to add new workers to your cluster. How would you do that?**

Options are :

* *docker swarm join-token manager*
* *docker swarm init-token manager*
* *docker swarm init-token worker*
* *docker swarm join-token worker*

**Answer :**docker swarm join-token worker

**What is the docker command for displaying layers of a Docker image?**

Options are :

* *docker image layers*
* *docker history*
* *docker info*
* *docker layers*

**Answer :**docker history

**Which of the following flags can be used with "docker build" command so that it never uses cached layer during the build steps.**

Options are :

* *--compress*
* *--no-cache*
* *-f*
* *--rm*

**Answer :**--no-cache

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**You a running a service called 'webserver'. You need to increase the number of replicas of that service to 5. Which of the following commands would achieve that?**

Options are :

* *docker swarm --replicas=5 webserver*
* *docker service scale webserver=5*
* *docker swarm scale webserver=5*
* *docker service --replicas=5 webserver*

**Answer :**docker service scale webserver=5

**Which set of commands can identify the published port(s) for a container?**

Options are :

* *docker network inspect docker port*
* *docker container inspect docker port*
* *docker port inspect docker container inspect*
* *https://docs.docker.com/engine/reference/commandline/inspect/*
* *docker info docker network inspect*

**Answer :**docker container inspect docker port

**What is the docker command to remove one or more images?**

Options are :

* *docker delete*
* *docker image delete*
* *docker remove*
* *docker image rm*

**Answer :**docker image rm

**In which of the following circumstances a service WILL NOT end up in a PENDING state?**

Options are :

* *If you created a global service but set a placement preference.*
* *If no node in the swarm has the required amount of resources.*
* *If a service cannot meet a constraint rule set during the creation step.*
* *If all worker nodes are unavailable and you only have manager nodes available. (Correct)*

**Answer :**If all worker nodes are unavailable and you only have manager nodes available.

**Which of the following options are available to run a single container?**

Options are :

* *published port, user, log driver, restart policy (Correct)*
* *published port, user, log driver, placement constraints*
* *published port, volume, secrets, log driver*
* *volume, secrets, log driver, memory limit*

**Answer :**published port, user, log driver, restart policy

**"docker service create nginx" is a command that creates a service in docker swarm. Which of the following statements is NOT TRUE?**

Options are :

* *This command can only be run from a manager node.*
* *Your service will not be able to serve inbound connections.*
* *A replica will run either from a manager or from a worker node.*
* *This service will only run from a worker. (Correct)*

**Answer :**This service will only run from a worker.

[Docker and Containers: Commands Set 3](https://chercher.tech/docker-certification/docker-and-containers-commands-set-3)

**Which of the following is NOT backed up while backing up DTR?**

Options are :

* *User, orgs, teams (Correct)*
* *Configurations*
* *Repository metadata*
* *Certificate and keys*

**Answer :**User, orgs, teams

**You have a Docker host that is used to build images and tests them. You create Docker images using the multi-stage build feature. Because of that, there are a large number of dangling images in this host. Which of the following commands you could run to only remove the dangling images?**

Options are :

* *docker rmi --filter dangling=true*
* *docker prune --filter dangling=true*
* *docker system prune*
* *docker image prune --filter dangling=true (Correct)*

**Answer :**docker image prune --filter dangling=true

**Which one of the following is the preferred storage driver, for all currently supported Linux distributions?**

Options are :

* *aufs*
* *overlay2 (Correct)*
* *btrfs*
* *devicemapper*

**Answer :**overlay2

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**What is the default location of secrets inside a Docker container?**

Options are :

* */run/secrets/ (Correct)*
* */secrets/*
* */var/run/*
* */var/secrets/*

**Answer :**/run/secrets/

**Which is the default location of a config file when using Docker config?**

Options are :

* */run/config/*
* */var/run/*
* */ (Correct)*
* */config/*

**Answer :**/

**Which of the following options would enable to SSH into a running Docker container named 'nginx'?**

Options are :

* *docker exec -it nginx /bin/sh (Correct)*
* *docker inspect webserver*
* *docker run -it nginx /bin/sh*
* *docker ssh -it nginx /bin/sh*

**Answer :**docker exec -it nginx /bin/sh

[Docker and Containers: Commands Set 4](https://chercher.tech/docker-certification/docker-and-containers-commands-set-4)

**How can you trigger a image build process directly from a git url?**

Options are :

* *docker build --remote https://github.com/example/docker-example.git*
* *docker build https://github.com/bocadilloproject/docker-example.git (Correct)*
* *docker build --from-git https://github.com/bocadilloproject/docker-example.git*
* *docker build --from-url https://github.com/bocadilloproject/docker-example.git*

**Answer :**docker build https://github.com/bocadilloproject/docker-example.git

**How do you setup the default logging driver on Docker daemon to be the syslog driver?**

Options are :

* *On /etc/docker/daemon.yaml or C:\ProgramData\docker\config\daemon.yaml, just add: log-driver: "syslog"*
* *On /etc/docker/daemon.json or C:\ProgramData\docker\config\daemon.json, just add: { "log-driver": "syslog" } (Correct)*
* *On /etc/docker/daemon.cfg or C:\ProgramData\docker\config\daemon.cfg, just add: { "log-driver": "syslog" }*
* *On /etc/docker/daemon.cfg or C:\ProgramData\docker\config\daemon.cfg, just add: log-driver: "syslog"*

**Answer :**On /etc/docker/daemon.json or C:\ProgramData\docker\config\daemon.json, just add: { "log-driver": "syslog" }

**You are creating a new Docker Swarm. This docker Swarm needs to use a subnet range of 172.16.2.0/24 in its overlay netowrk to avoid collision with other networks. Which command below would enforce the usage of this subnet range?**

Options are :

* *docker swarm init --addr-pool 172.16.2.0/24*
* *docker swarm init --default-addr-pool 172.16.2.0/24 (Correct)*
* *docker swarm init --address-pool 172.16.2.0/24*
* *docker swarm init --address-range 172.16.2.0/24*

**Answer :**docker swarm init --default-addr-pool 172.16.2.0/24

[Docker and Containers: Commands Set 1](https://chercher.tech/docker-certification/docker-and-containers-commands-set-1)

**Which of the following is default network in docker?**

Options are :

* *bridge (Correct)*
* *macvlan*
* *host*
* *overlay*

**Answer :**bridge

**You are setting up a new Docker Swarm on AWS. You must ensure that the traffic between hosts are not block either by the Security Group Rules nor by Network Access Control List. Which of the following answers covers all ports that must be allowed between Docker hosts?**

Options are :

* *TCP/2377 and UDP/2377*
* *TCP/7946 and UDP/2377*
* *TCP/2377, TCP/7946, and UDP/7946 (Correct)*
* *TCP/2377 and TCP/4789*

**Answer :**TCP/2377, TCP/7946, and UDP/7946

**Which of the following commands can be used to attach an existing network named 'net1' to a container 'container1' which is currently running in network named 'net2'?**

Options are :

* *docker network connect net1 net2 container1*
* *docker network connect net1 container1 (Correct)*
* *docker connect network net1 net2*
* *docker connect network net1 container1*
* *docker connect network net1 net2 container1*

**Answer :**docker network connect net1 container1

**Which of the following commands will deploy nginx only on worker nodes of the swarm so that it is accessible externally on port 8000. NOTE: By external connectivity means the nginx can be accessed on http://WORKER\_IP:8000**

Options are :

* *docker service create -p 8000 --constraint node.role=worker nginx*
* *docker service create -p 8000 --placement-pref node.role=worker nginx*
* *docker service create -p 8000:80 --constraint node.role=worker nginx (Correct)*
* *docker service create -p 8000:80 --placement-pref node.role=worker nginx*

**Answer :**docker service create -p 8000:80 --constraint node.role=worker nginx

**You built this amazing image using a Dockerfile on your system. You initially tagged it as “myimage”. Now you need to push this to a registry which resides at “myregistry.com” and is running at port 9999. What tag and push would you do to achieve it?**

Options are :

* *docker push --registry myregistry.com:9999 myimage*
* *docker tag myimage myregistry.com:9999/myimage && docker push myregistry.com:9999/myimage (Correct)*
* *docker tag myregistry.com:9999/myimage myimage && docker push myregistry.com:9999/myimage*
* *docker tag myimage myregistry.com/myimage && docker push -p 9999 myregistry.com/myimage*

**Answer :**docker tag myimage myregistry.com:9999/myimage && docker push myregistry.com:9999/myimage

**You have an image which has ENTRYPOINT [“/bin/bash”, “-c”, “ping”] CMD [“localhost”] Image name is myimage. How would you run this image to ping google.com**

Options are :

* *docker run -it myimage ping google.com*
* *docker run -it myimage google.com (Correct)*
* *docker run -it myimage /bin/bash -c ping google.com*
* *None of these or All of these*

**Answer :**docker run -it myimage google.com

**Which of the following is a valid command to assign static IP to a container?**

Options are :

* *docker run --static-ip 172.18.0.22*
* *docker run --ip 172.18.0.22*
* *None of the above (Correct)*
* *docker run --network-ip 172.18.0.22*

**Answer :**None of the above

**Which of the following networks are created by default after initialising a docker swarm? “docker swarm init”**

Options are :

* *docker\_gwbridge and ingress (Correct)*
* *docker\_bridge and overlay*
* *bridge and ingress*
* *only docker\_gwbridge*

**Answer :**docker\_gwbridge and ingress

**Who is the owner of the docker.sock file created while running docker and what are the default permissions on it?**

Options are :

* *root, 660 (Correct)*
* *root, 770*
* *admin, 660*
* *admin, 770*

**Answer :**root, 660

**Fill in the blank: Docker Content Trust provides the ability to use \_\_\_\_\_\_\_\_\_\_ for verifying integrity and the publisher of all the data received from a registry over any channel.**

Options are :

* *end to end encryption*
* *digital signatures (Correct)*
* *symmetric key encryption*
* *a container*

**Answer :**digital signatures

**Bob wants to test an untrusted docker image which has a bug due to which it starts consuming memory rapidly which causes other programs on the system to run out of memory and crash. Bob wants to run the container and limit the max memory it can to be 512MB. Which of the following can bob use while running a container to deal with this problem?**

Options are :

* *docker run --limit 512m*
* *docker run --limit 512*
* *docker run -m 512m (Correct)*
* *docker run -m 512*

**Answer :**docker run -m 512m

**Which of the following is NOT a good security practice?**

Options are :

* *Pull image by hash in order to uniquely identify an image and to ensure it’s integrity*
* *Use a stripped down base image*
* *Execute the process as a user with limited privileges.*
* *Use --privileged flag while running containers to ensure more security (Correct)*

**Answer :**Use --privileged flag while running containers to ensure more security

**Which of the following is true about --privileged mode while running docker container?**

Options are :

* *It enables all kernel capabilities for the container (Correct)*
* *It increases security of a container*
* *It increases the isolation of processes running inside container*
* *It disables privilege escalation*

**Answer :**It enables all kernel capabilities for the container

**Which of the follow is true about MTLS?**

Options are :

* *MTLS ensures that client can authenticate the identity of the server*
* *MTLS ensures that both client and server authenticate each other’s identities (Correct)*
* *MTLS ensures that server can authenticate the identity of the client*
* *MTLS is used by Docker registry for safe transmission of images*

**Answer :**MTLS ensures that both client and server authenticate each other’s identities

**What is the recommended way of dealing with loss of root in in DCT?**

Options are :

* *Regenerate a new root key*
* *Sign existing user certs with a new root key*
* *Contact docker support. (Correct)*
* *Create a new DCT cluster*

**Answer :**Contact docker support.

**Fill in the blanks A client bundle is a group of \_\_\_\_\_\_ downloadable directly from the Docker Universal Control Plane (UCP) user interface. It allows you to authorize a remote Docker engine to a specific user account managed in Docker EE.**

Options are :

* *containers*
* *images*
* *binaries*
* *certificates (Correct)*

**Answer :**certificates

**Pick ALL storage drivers from the list below which operate at block level? overlay2, aufs, btrfs, zfs, devicemapper**

Options are :

* *overlay, aufs, zfs*
* *aufs, btrfs, zfs*
* *devicemapper, btrfs, zfs (Correct)*
* *aufs, btrfs, zfs, overlay*

**Answer :**devicemapper, btrfs, zfs

**Which of the following commands can be used to check the storage driver which we are using?**

Options are :

* *docker node inspect*
* *docker system events*
* *docker plugin inspect*
* *docker info (Correct)*

**Answer :**docker info

**Domain: Image Creation, Management, and Registry**

**Which of the following commands can take a tar file as an argument and add the extracted content into the image automatically?**

Options are :

* *None of these*
* *COPY*
* *ADD and COPY both*
* *ADD (Correct)*

**Answer :**ADD

**Domain: Storage and Volumes**

**Pick ALL storage drivers from the list below which operate at block level?**

Options are :

* *Overlay, aufs, zfs*
* *Aufs, btrfs, zfs (Correct)*
* *Overlay2, aufs, btrfs, zfs, devicemapper*

**Answer :**Aufs, btrfs, zfs

**Domain: Image Creation, Management, and Registry**

**Docker image consists of \_\_\_\_\_ layers each of which represents a Dockerfile instruction. The layers are stacked and each one is a delta of the changes from the previous layer.**

Options are :

* *Write only*
* *Movable*
* *Read and write*
* *Read only (Correct)*

**Answer :**Read only

**Domain: Image Creation, Management, and Registry**

**Which of the following commands can be used to check Entrypoint and CMD of a given docker image?**

Options are :

* *Docker image inspect (Correct)*
* *Docker image Ls*
* *Docker info image*

**Answer :**Docker image inspect

**Domain: Image Creation, Management, and Registry**

**Which of the following is NOT backed up while backing up DTR?**

Options are :

* *Repository metadata*
* *Certificate and keys*
* *Configuration*
* *User, orgs, teams (Correct)*

**Answer :**User, orgs, teams

**Domain: Storage and Volumes**

**Which of the following is NOT TRUE regarding to Docker config and Docker secrets?**

Options are :

* *Secrets and configs are encrypted during transit and at rest in a Docker swarm (Correct)*
* *Both configs and secret are encrypted in transit*
* *Secrets uses ramdisk to mount the volume and configs does not*
* *Default location of configs inside of a container is / whereas the default of secrets inside of a container is /run/secrets/*

**Answer :**Secrets and configs are encrypted during transit and at rest in a Docker swarm

**Domain: Security**

**Which of the following is NOT true about selinux?**

Options are :

* *SELinux= Security-Enhanced Linux*
* *SELinux come bundled with docker (Correct)*
* *SELinux is a set of kernel modifications and user-space tools that have been added to various Linux distributio*

**Answer :**SELinux come bundled with docker

**Domain: Storage and Volumes**

**Bob wants to update the secret being used by one of his service. What is the correct sequence of actions to be performed by him?**

Options are :

* *Create a new secret, update the service to use this new secret, delete the old secret (Correct)*
* *Update the existing secret using docker secret update*
* *Update the existing secret, restart all the services using this secret*

**Answer :**Create a new secret, update the service to use this new secret, delete the old secret

**Domain: Storage and Volumes**

**Which of the following is NOT true about tmpfs\_mounts?**

Options are :

* *When the container stops, the tmpfs mount is removed, and files written there won't be persisted*
* *mpfs mounts are available for both windows and linux (Correct)*
* *As opposed to volumes and bind mounts, a tmpfs move is temporary, and only persisted in the host memory*

**Answer :**mpfs mounts are available for both windows and linux

**Domain: Image Creation, Management, and Registry**

**You are in a directory containing a file named Dockerfile-app. You want to build a docker image using this “Dockerfile-app” file without renaming it to “Dockerfile”. Which of the following answers is correct?**

Options are :

* *Docker build --from-file Dockerfile-app*
* *Docker build --dockerfile Dockerfile-app*
* *Docker build -f Dockerfile-app (Correct)*
* *Docker build -d Dockerfile-app*

**Answer :**Docker build -f Dockerfile-app

**Domain: Networking**

**You are creating a new Docker Swarm. This docker Swarm needs to use a subnet range of 172.16.2.0/24 in its overlay network to avoid collision with other networks. Which command below would enforce the usage of this subnet range?**

Options are :

* *Docker swarm init --address-pool 172.16.2.0/24*
* *Docker swarm init --default-pool 172.16.2.0/24 (Correct)*
* *Docker swarm init --addr-pool 172.16.2.0/24*

**Answer :**Docker swarm init --default-pool 172.16.2.0/24

**Domain: Image Creation, Management, and Registry**

**Which of the following commands can be used to get the disk space used by a running container?**

Options are :

* *Docker ps –s (Correct)*
* *Docker image Ls*
* *Docker stats*
* *Docker Ls -s*

**Answer :**Docker ps –s

**Domain: Orchestration**

**"docker service create nginx" is a command that creates a service in docker swarm. Which of the following statements is NOT TRUE?**

Options are :

* *A replica will run either from a manager or from a worker mode*
* *This command can only be run from a manager node*
* *This service will only run from a worker (Correct)*
* *Your service will not be able to serve inbound connections*

**Answer :**This service will only run from a worker

**Domain: Orchestration**

**Which of the following is a good distribution of 7 managers across 3 availability zones?**

Options are :

* *1 - 1 - 5*
* *2 - 2 – 3 (Correct)*
* *1 - 2 – 4*
* *3 - 1 - 3*

**Answer :**2 - 2 – 3

**Domain: Storage and Volumes**

**Which of the following lvm mode should a production host using the devicemapper as a storage driver use?**

Options are :

* *ZFS*
* *Overlay*
* *Direct-lvm (Correct)*
* *Loop-lvm*

**Answer :**Direct-lvm

**Domain: Orchestration**

**In which of the following circumstances a service WILL NOT end up in a PENDING state?**

Options are :

* *If a service cannot meet a constraint rule set during the creation step*
* *If you created a global service but set a placement preference*
* *If all worker’s nodes are unavailable and you have only manager’s nodes available (Correct)*
* *If no node in the swarm has the required amount of resources*

**Answer :**If all worker’s nodes are unavailable and you have only manager’s nodes available

**Domain: Security**

**Which of the following is NOT true about seccomp?**

Options are :

* *Seccomp is an application which can be installed independent of docker (Correct)*
* *Seccomp filtering provides a means for a process to specify a filter for incoming system calls*
* *Seccomp = Secure Computing Mode*

**Answer :**Seccomp is an application which can be installed independent of docker

**Domain: Orchestration**

**Which of the following options below can be used for scaling the nginx service on a Docker Swarm?**

Options are :

* *Docker service scale nginx=3 (Correct)*
* *Docker service --replicas=3 nginx*
* *Docker swarm --replicas=3 nginx*
* *Docker swarm scale nginx=3*

**Answer :**Docker service scale nginx=3

**Domain: Image Creation, Management, and Registry**

**Which of the following commands can use a remote URL to get files inside image?**

Options are :

* *COPY and ADD both*
* *ADD (Correct)*
* *COPY*
* *DOWNLOAD*

**Answer :**ADD

**Domain: Orchestration**

**DCT stands for?**

Options are :

* *Docker certificate trust*
* *Docker content trust (Correct)*
* *Docker container transmission*
* *Docker content transmission*

**Answer :**Docker content trust

**Domain: Installation and Configuration**

**How can you trigger an image build process directly from a git url?**

Options are :

* *Docker build --remote https://github.com/example/docker-example.git*
* *Docker build https://github.com/bocadilloproject/docker-example.git (Correct)*
* *Docker build --from-git https://github.com/bocadilloproject/docker-example.git*

**Answer :**Docker build https://github.com/bocadilloproject/docker-example.git

**Domain: Image Creation, Management, and Registry**

**Which of the following commands can be used to delete an existing image?**

Options are :

* *Docker rmi (Correct)*
* *Docker rm image*
* *Docker image delete*
* *Docker rm*

**Answer :**Docker rmi

**Domain: Security**

**You want to ensure that a container doesn’t exceed memory usage than a specified amount. Which of the following will be used by default by docker to achieve that?**

Options are :

* *Seccomp*
* *Cgroups (Correct)*
* *Namespaces*
* *Selinux*

**Answer :**Cgroups

**Domain: Image Creation, Management, and Registry**

**Which of the following is NOT a supported storage backend for a centralized storage in DTR?**

Options are :

* *Google cloud storage*
* *Openstack Swift*
* *NFS*
* *AWS EBS volumes (Correct)*

**Answer :**AWS EBS volumes

**Domain: Security**

**You had a security issue and you suspect that someone might have got access to the token for adding managers to your cluster. Since it’s a major security issue - you need to do something about it to prevent your cluster from being misused. What would you do?**

Options are :

* *Rotate your join-token only for worker and it will automatically rotate it for manager*
* *Rotate your join-token only for manager and it will automatically rotate it for worker*
* *Rotate your join-token for both worker and manager (Correct)*
* *Rotate your join-token only for manager and it will automatically rotate it for worker*

**Answer :**Rotate your join-token for both worker and manager

**Domain: Orchestration**

**You are running a fleet of swarm nodes on AWS. Your nodes are part of an Autoscaling group, where instances are automatically created and/or destroyed.**

**You have a 3rd party solution that collects metrics from your host and it will run in your swarm as a service. You must ensure that this task is being run on every node and must not consume more than 512 Mb of RAM. Which of the following commands below meet this criteria?**

Options are :

* *Docker service create --mode=global --name node-exporter --limit-memory=512m prom/node-exporter; latest (Correct)*
* *Docker service create --mode=replicated --name node-exporter --constraint 'node.max-memory==512M' --replicas=1 prom/node-exporter; latest*
* *Docker service create --mode=global --name node-exporter --constraint 'node.max-memory==512M' prom/node-exporter; latest*

**Answer :**Docker service create --mode=global --name node-exporter --limit-memory=512m prom/node-exporter; latest

**Domain: Installation and Configuration**

**You have a Docker host that is used to build images and tests them. You create Docker images using the multi-stage build feature. Because of that, there are a large number of dangling images in this host. Which of the following commands you could run to only remove the dangling images?**

Options are :

* *Docker prune --filter dangling=true*
* *Docker image prune --filter dangling=true (Correct)*
* *Docker rim --filter dangling=true*
* *Docker system prune*

**Answer :**Docker image prune --filter dangling=true

**Domain: Installation and Configuration**

**Which of the following options would enable to SSH into a running Docker container named 'nginx'?**

Options are :

* *Docker ssh -it nginx /bin/sh*
* *Docker run -it nginx /bin/sh*
* *Docker exec -it nginx /bin/sh (Correct)*
* *Docker inspect webserver*

**Answer :**Docker exec -it nginx /bin/sh

**Domain: Storage and Volumes**

**Which of the following is NOT true about docker volumes?**

Options are :

* *You can manage volumes using Docker CLI commands but not with Docker API (Correct)*
* *Volumes are easier to back up or migrate than bind mounts*
* *Volumes work on both linux and windows containers*

**Answer :**You can manage volumes using Docker CLI commands but not with Docker API

**Domain: Installation and Configuration**

**Which one of the following is the preferred storage driver, for all currently supported Linux distributions?**

Options are :

* *Devicemapper*
* *Btrfs*
* *Overlayz (Correct)*
* *Aufs*

**Answer :**Overlayz

**Which of the following statements describe what the ENV directive does?**

Options are :

* *It sets environment variables that are only visible at the container runtime.*
* *It sets environment variables that are only visible during later build steps*
* *It sets environment variables that are made available in subsequent build steps and to containers at the runtime. (Correct)*
* *It sets an environment variable on the host while the container is running*

**Answer :**It sets environment variables that are made available in subsequent build steps and to containers at the runtime.

**From a DevOps perspective, it is good practice to keep changes of an application in a version control system. Which of the following will allow changes to a docker image to be maintained in a version control system?**

Options are :

* *A docker-compose.yaml file*
* *A docker file (Correct)*
* *docker commit*
* *docker save*

**Answer :**A docker file

**Which statement is true?**

Options are :

* *ENTRYPOINT cannot be overriden in the "docker container run" command*
* *ENTRYPOINT should be defined when using the container as an executable. (Correct)*
* *ENTRYPOINT cannot be used in conjuction with CMD*
* *CMD cannot be overriden in the "docker container run" command*

**Answer :**ENTRYPOINT should be defined when using the container as an executable.

**Environment variables set in a Dockerfile using ENV are persisted when a container is run from the resulting image. True or False.**

Options are :

* *FALSE*
* *TRUE (Correct)*

**Answer :**TRUE

**Which of the following flags can you use to specify a repository and a tag for saving the image after the build is done?**

Options are :

* *-p*
* *-m*
* *-f*
* *-t (Correct)*

**Answer :**-t

**Which of the following statements are true about Dockerfile instructions? (Choose  two)**

Options are :

* *COPY supports regular expression handling while ADD does not.*
* *ADD supports remote URL handling while COPY does not. (Correct)*
* *ADD supports regular expression handling while COPY does not.*
* *COPY supports compression format handling while ADD does not.*
* *ADD supports compression format handling while COPY does not. (Correct)*

**Answer :**ADD supports remote URL handling while COPY does not. ADD supports compression format handling while COPY does not.

**What should you do in the event that a cluster CA key or a manager node is compromised?**

Options are :

* *Generate the swarm root CA*
* *Remove the node*
* *Remove the swarm root CA*
* *Rotate the swarm root CA (Correct)*

**Answer :**Rotate the swarm root CA

**Collections are groupings of objects within UCP. Which of the following is not a valid object for a collection?**

Options are :

* *configs*
* *nodes*
* *containers*
* *firewall rules (Correct)*
* *stacks*

**Answer :**firewall rules

**What Docker feature allows you to restrict the syscalls available to a given process?**

Options are :

* *mnt*
* *UnionFS*
* *Seccomp (Correct)*
* *Cgroups*

**Answer :**Seccomp

**Which of the following commands can you use to enable autolock on an existing swarm cluster?**

Options are :

* *docker swarm update --autolock=true (Correct)*
* *docker swarm --set-autolock=true*
* *docker swarm autolock*
* *docker swarm update --autolock-swarm=true*

**Answer :**docker swarm update --autolock=true

**Are scan results of Docker security available in both UCP and DTR?**

Options are :

* *FALSE (Correct)*
* *TRUE*

**Answer :**FALSE

**Which of the following should be stored in a Secret file instead of Dockerfile or application's source code? (select all that apply)**

Options are :

* *Usernames and passwords (Correct)*
* *Generic strings or binary content (up to 500 kb in size) (Correct)*
* *Application metadata*
* *Tags*
* *Other important data such as the name of a database or internal server (Correct)*

**Answer :**Usernames and passwords Generic strings or binary content (up to 500 kb in size) Other important data such as the name of a database or internal server

**Which of the following are the two types of UCP client bundles?**

Options are :

* *Docker CLI bundles and Docker web UI bundles.*
* *Admin user certificate bundles and user certificate bundles. (Correct)*
* *Docker UCP Client bundles and DTR client bundles.*
* *Ops client bundels and dev client bundles.*

**Answer :**Admin user certificate bundles and user certificate bundles.

**Following the principle of least privilege, which of the following methods can you use to securely grant access to a specific user to communicate to a Docker engine?**

Options are :

* *Utilize the '--host 0.0.0.0:2375' option to the Docker daemon to listen on port 2375 over TCP on all interfaces.*
* *Utilize the '--host 127.0.0.1:2375' option to the Docker daemon to listen on port 2375 over TCP on localhost*
* *Utilize openssl to create TLS client and server certificates, configuring the Docker engine to use with mutual TLS over TCP. (Correct)*
* *Give the user root access to the server to allow them to run Docker commands as root.*

**Answer :**Utilize openssl to create TLS client and server certificates, configuring the Docker engine to use with mutual TLS over TCP.

**Which of the following commands can be used to reduce the surface of attack from a container?**

Options are :

* *--cap-drop (Correct)*
* *--cap-add=ALL*
* *None of the answers is correct.*
* *--cap-add*

**Answer :**--cap-drop

**What is the purpose of Docker Content Trust?**

Options are :

* *Signing and verification of image tags (Correct)*
* *Indicating an image on Docker Hub is an official image*
* *Docker registry TLS verification and encryption*
* *Enabling mutual TLS between the Docker client and server*

**Answer :**Signing and verification of image tags

**Which of the following are available security features of Docker Engine? (select all that apply)**

Options are :

* *You can configure secure computing mode (Seccomp) policies to secure system calls in a container (Correct)*
* *You can use certificate-based client-server authentication to verify a Docker daemon has the rights to access images on a registry (Correct)*
* *You can configure Docker`s trust features so that your users can push and pull trusted images (Correct)*
* *You can protect the Docker daemon socket and ensure only trusted Docker client connections (Correct)*

**Answer :**You can configure secure computing mode (Seccomp) policies to secure system calls in a container You can use certificate-based client-server authentication to verify a Docker daemon has the rights to access images on a registry You can configure Docker`s trust features so that your users can push and pull trusted images You can protect the Docker daemon socket and ensure only trusted Docker client connections

**You want to prevent Docker Swarm encryption keys from being stored insecurely on swarm managers. How can you enforce a lock on the swarm cluster?**

Options are :

* *You can use the --autolock=true flag with the docker swarm update command. (Correct)*
* *You can’t do it because Docker does not offer this functionality.*
* *You can find the critical files after the installation and delete them.*
* *The autolock feature must be turned on when the cluster is initialized and cannot be enabled after the fact.*

**Answer :**You can use the --autolock=true flag with the docker swarm update command.

**It’s possible to set a secure certificate that is valid for multiple URLs. True or False?**

Options are :

* *FALSE*
* *TRUE (Correct)*

**Answer :**TRUE

**Which of the following cases requires you to change the docker image layer entirely?**

Options are :

* *File under ADD layer has bad Hex objects.*
* *All of the above*
* *Command under CMD layer creates permission conflicts.*
* *Components of base image have critical vulnerabilities. (Correct)*

**Answer :**Components of base image have critical vulnerabilities.

**A team of developers needs root access to a node. What’s the proper way to handle the situation?**

Options are :

* *None of the answers is correct*
* *Give root access only for a short period of time*
* *Use RBAC Labels to give access to objects like images and running containers (Correct)*
* *Give root access only to users from an existing LDAP/AD infrastructure*

**Answer :**Use RBAC Labels to give access to objects like images and running containers

**What is the purpose of client bundles in the Universal Control Plane?**

Options are :

* *Provide a new user instructions for how to login to the Universal Control Plane*
* *Authenticate a user using client certificates to the Universal Control Plane (Correct)*
* *Provide a user with a Docker client binary compatible with the Universal Control Plane*
* *Group multiple users in a team in the Universal Control Plane*

**Answer :**Authenticate a user using client certificates to the Universal Control Plane

**Which of the following makes it possible to use a registry that is not configured with TLS certificates from a trusted CA?**

Options are :

* *Pass the '--engine-insecure-registry' flag to the daemon when started. (Correct)*
* *Set INSECURE\_REGISTRY in the '/etc/docker/default' configuration file.*
* *Set IGNORE\_TLS in the 'daemon.json' configuration file.*
* *Set and export the IGNORE\_TLS environment variable on the command line.*

**Answer :**Pass the '--engine-insecure-registry' flag to the daemon when started.

**In what form can UCP provide authorized client certificates?**

Options are :

* *As pop-up dialog box with a token*
* *As a token*
* *As a QR code*
* *As a Client Bundle (zip file) (Correct)*

**Answer :**As a Client Bundle (zip file)

**When using the RBAC model, you want to control access to swarm resources by using collections. Which of the following will enable you to do that?**

Options are :

* *Docker configs*
* *None of the above.*
* *Docker labels (Correct)*
* *Docker secrets*

**Answer :**Docker labels

**You can configure DTR to use your own TLS certificates, so that it is automatically trusted by your users's browser and client tools?**

Options are :

* *FALSE*
* *TRUE (Correct)*

**Answer :**TRUE

**To get UCP traffic secured in Docker Swarm mode you need to generate certs externally or set up any CAs manually. True or False?**

Options are :

* *TRUE*
* *FALSE (Correct)*

**Answer :**FALSE

**When doing operations with a remote Docker registry, what Docker feature allows you to enforce client-side signing and verification of image tags?**

Options are :

* *Docker Certificate Checker*
* *It is not possible to enforce client-side signing and verification of image tags.*
* *Docker Signing Authority*
* *Docker Content Trust (Correct)*

**Answer :**Docker Content Trust

**Which of the following is not an available feature after scanning a Docker image?**

Options are :

* *Remove Vulnerability (Correct)*
* *Layers affected*
* *A link to CVE database*
* *Severity*

**Answer :**Remove Vulnerability

**Which of the following statements is true about secrets?**

Options are :

* *Secrets are stored unencrypted on manager nodes*
* *Secrets can be created from any node in the cluster*
* *Secrets can be created using standard input (STDIN) and a file (Correct)*
* *Secrets can be modified after they are created*

**Answer :**Secrets can be created using standard input (STDIN) and a file

**Which of the following is NOT true about docker volumes?**

Options are :

* *Volumes work on both Linux and Windows containers.*
* *You can manage volumes using Docker CLI commands but not with Docker API.*
* *New volumes can have their content pre-populated by a container.*
* *Volumes are easier to back up or migrate than bind mounts.*

**Answer :**You can manage volumes using Docker CLI commands but not with Docker API.

**Which is the minimum recommended version for a docker-compose.yml file?**

Options are :

* *2*
* *3.1*
* *1*

**Answer :**2

**Which of the Dockerfile options executes any commands in a new layer on top of the current image and commit the results?**

Options are :

* *RUN*
* *FROM*
* *CMD*
* *ONBUILD*

**Answer :**RUN

[Docker and Containers: Commands Set 4](https://chercher.tech/docker-certification/docker-and-containers-commands-set-4)

**Which of the following is NOT backed up when performing a Docker Trusted backup operation?**

Options are :

* *image blobs*
* *repository metadata*
* *DTR configurations*
* *access control to repos and images*

**Answer :**image blobs

**For taking backup of taking UCP running with 5 masters - backup of how many masters need to be performed so that we can recover with minimal data loss during a disaster.**

Options are :

* *1*
* *5*
* *2*
* *3*

**Answer :**1

**Which of the following is NOT true about docker stack?**

Options are :

* *docker-compose.yaml file can be used by docker stack*
* *docker stack is more suited for production environments*
* *docker stack can be used to manage multiple services*
* *docker stack can run without docker swarm*

**Answer :**docker stack can run without docker swarm

[Docker and Containers: Commands Set 4](https://chercher.tech/docker-certification/docker-and-containers-commands-set-4)

**What is the 'build context' in a compose file supposed to do?**

Options are :

* *The image in reference has to exist in a Docker Hub repo before being run.*
* *docker-compose should build an image from the contect of the most recent image built in a previous compose file.*
* *It is mean to specify where Dockerfile of the image is supposed to build from.*
* *The build has occur before the run command.*

**Answer :**It is mean to specify where Dockerfile of the image is supposed to build from.

**How to initially begin a Swarm, activating Swarm Mode on a single node?**

Options are :

* *docker swarm init*
* *docker swarm join*
* *docker swarm run*
* *docker swarm start*

**Answer :**docker swarm init

**What is the default format of docker inspect output?**

Options are :

* *yaml*
* *html*
* *xml*
* *json*

**Answer :**json

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**Which of the following is NOT true about tmpfs\_mounts?**

Options are :

* *tmpfs mounts are available for both windows and linux.*
* *As opposed to volumes and bind mounts, a tmpfs mount is temporary, and only persisted in the host memory.*
* *When the container stops, the tmpfs mount is removed, and files written there won't be persisted.*
* *tmpfs mount increase the container's performance by avoiding writing into the container's writable layer.*

**Answer :**tmpfs mounts are available for both windows and linux.

**What Dockerfile option EXPOSE does?**

Options are :

* *Expose defaults for an executing container*
* *Informs Docker that the container listens on the specified network ports at runtime*
* *Adds metadata to an image*
* *Label a container that will run as an executable*

**Answer :**Informs Docker that the container listens on the specified network ports at runtime

**Docker security scan in DTR  can be started by all users including those with read-only access?**

Options are :

* *False*
* *True*

**Answer :**False

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**Which of the following commands can be used to check Entrypoint and CMD of a given docker image?**

Options are :

* *docker image inspect*
* *docker info image*
* *docker image ls*
* *docker image info*

**Answer :**docker image inspect

**Which of the following version of "docker-compose.yml" files can you use with "docker stack" command?**

Options are :

* *version 3 and above*
* *version 2 and above*
* *Any version B*
* *version 1 and above*

**Answer :**version 3 and above

**Which of the following statement below is NOT TRUE about docker-compose?**

Options are :

* *docker-compose will bring up services as specified in docker-compose.yml*
* *docker-compose is well suited for development environments .*
* *docker-compose can be used with docker swarm to run services across different workers.*
* *docker-compose can not be used to create new container images.*

**Answer :**docker-compose can be used with docker swarm to run services across different workers.

[Docker Certified Associate (DCA) Practice Exams Set 11](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-11)

**Once a node joins a swarm as a worker, it would have to leave the swarm and re-join to become a manager.**

Options are :

* *False*
* *True*

**Answer :**False

**Which of the following statements is NOT TRUE about replicated service in docker?**

Options are :

* *A service running in a replicated mode may not run in all nodes.*
* *If you don't specify a mode, the service defaults to replicated*
* *For replicated services you can specify number of replica tasks*
* *For replicated services, the scheduler places one task on each available node that meets the service's placement constraints and resource requirements.*

**Answer :**For replicated services, the scheduler places one task on each available node that meets the service's placement constraints and resource requirements.

**What is the recommended way to configure the daemon flags and environment variables for your Docker daemon in a platform independent way?**

Options are :

* *set the configuration DOCKER\_OPTS in '/etc/default/docker'*
* *Using 'docker config' to set the configuration options*
* *set the configuration options in '/etc/docker/daemon.json'*
* *Set the configuration options using the ENV variable.*

**Answer :**set the configuration options in '/etc/docker/daemon.json'

[Docker and Containers: Commands Set 1](https://chercher.tech/docker-certification/docker-and-containers-commands-set-1)

**A global service is a service that runs \_\_\_\_ task/tasks on every node that meet the placement and resource constraints?**

Options are :

* *many*
* *none*
* *one*
* *more than one*

**Answer :**one

**Which flag for a service would allow a container to consume more than 2 GB of memory only when there is no memory contention but would also prevent a container from consuming more than 4GB of memory, in any case?**

Options are :

* *--limit-momory 4 GB --reserve-memory 2GB*
* *--limit-momory 2 GB --reserve-memory 4 GB*
* *--momory-swap 4GB --limit-memory 2GB*
* *--momory-swap 2GB --limit-memory 4GB*

**Answer :**--limit-momory 4 GB --reserve-memory 2GB

**To scale up a service to multiple containers, which of the following commands would you use?**

Options are :

* *docker service update --add-replicas #*
* *docker service update --replicas #*
* *This cannot be done in single command*
* *docker service update --scale #*

**Answer :**docker service update --replicas #

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**After creating a new service named 'http', you notice that the new service is not registering as healthy. How do you view the list of historical tasks for that service by using the command line?**

Options are :

* *docker ps http*
* *docker service inspect http*
* *docker inspect http*
* *docker service pd http*

**Answer :**docker service inspect http

**What is used by the kernel to Isolate resources when running Docker containers?**

Options are :

* *Overlay Networks*
* *Cgroups (also known as Control groups)*
* *Namespaces*
* *Volumes*

**Answer :**Namespaces

**What is the image storage solution that is part of Docker Enterprise Edition called?**

Options are :

* *Universal Control Plane*
* *Docker Hub*
* *Docker Registry*
* *Docker Trusted Registry*

**Answer :**Docker Trusted Registry

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**What is the difference between "docker swarm" and "docker swarm mode" ?**

Options are :

* *In docker swarm mode you cannot scale services whereas in docker swarm you can.*
* *They are the same*
* *Docker swarm is a tool outside docker engine which is used to connect multiple docker hosts and manage them as a cluster where as docker swarm mode is built inside docker engine which and does the same thing.*
* *They are the same and In docker swarm mode you cannot scale services whereas in docker swarm you can.*

**Answer :**Docker swarm is a tool outside docker engine which is used to connect multiple docker hosts and manage them as a cluster where as docker swarm mode is built inside docker engine which and does the same thing.

**Which of the following is the correct command to store an image to a registry?**

Options are :

* *docker upload [options] NAME[:TAG]*
* *docker commit [options] NAME[:TAG]*
* *docker push [options] NAME[:TAG]*
* *docker store [options] NAME[:TAG]*

**Answer :**docker push [options] NAME[:TAG]

**Which of the following lvm mode should a production host using the devicemapper as a storage driver use?**

Options are :

* *direct-lvm*
* *zfs*
* *loop-lvm*
* *overlay*

**Answer :**direct-lvm

[Docker Certified Associate (DCA) Practice Exams Set 2](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-2)

**Danny did a fresh installation of docker on his new linux server. He hasn't tinkered with anything and has just installed docker packages from official repository. He runs a new container with command "docker run -d nginx" , which logging driver will this container use?**

Options are :

* *logentries*
* *syslog*
* *json-file*
* *journald*

**Answer :**json-file

**Which of the following Dockerfile options creates a mount point with the specified name and marks it as holding externally mounted volumes from native host or other containers?**

Options are :

* *VOLUME*
* *RUN*
* *ONBUILD*
* *WORKDIR*

**Answer :**VOLUME

**A container named "analytics" that stores results in a volume called "data" was created. docker run -d --name=analytics -v data:/data app1 How are the results accessed in "data" with another container called "app2"?**

Options are :

* *docker run -d --name=reports --volumes-from=analytics app2*
* *docker run -d --name=reports --mount=app1 app2*
* *docker run -d --name=reports --volume=app1 app2*
* *docker run -d --name=reports --volume=data app2*

**Answer :**docker run -d --name=reports --volumes-from=analytics app2

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**Which of the following platforms supports IPv6 networking in Docker?**

Options are :

* *Docker Desktop for Mac*
* *Linux*
* *Docker Desktop for Windows*
* *Docker for iOS*

**Answer :**Linux

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**True or False?**

**Containers connected to a default bridge network do not forward their network traffic to the outside world.**

Options are :

* *True*
* *False*

**Answer :**True

**Which of the following containers manages the DTR authentication?**

Options are :

* *dtr-auth-*
* *dtr-sign-*
* *dtr-garant-*
* *dtr-allow-*

**Answer :**dtr-garant-

**How many sub-networks can be created on the default bridge network?**

Options are :

* *2*
* *4*
* *1*
* *3*

**Answer :**1

[Docker Certified Associate (DCA) Practice Exams Set 8](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-8)

**Which of the following ways is not used for container identification?**

Options are :

* *Container name*
* *UUID long identifier*
* *UUID short identifier*
* *Uniform Resource Identifier*

**Answer :**Uniform Resource Identifier

**The output of the following docker run command returned non-zero exit code. What could be the possible reason?**

**$ docker run --foo alpine echo $?**

1. **# flag provided but not defined: --foo**
2. **See 'docker run --help'.**
3. **125**

Options are :

* *The container is Out-of-memory.*
* *The container's process has been terminated by CTRL+C.*
* *The default command of the container could not be invoked.*
* *There is an error with docker daemon.*

**Answer :**There is an error with docker daemon.

**After pressing the key sequence CTRL+C, which of the following signals is sent to stop a running container?**

Options are :

* *SIGTERM*
* *SIGINT*
* *SIGKILL*
* *COPY*

**Answer :**SIGKILL

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**What will be the outcome of a docker cp command if the SRC\_PATH is a file and the DEST\_PATH is a directory?**

Options are :

* *It will create a new file into DEST\_PATH and copy the content of source file in it.*
* *The DEST\_PATH will be overwritten with the contents of the source file.*
* *The source file will be copied into DEST\_PATH and will be saved as the basename from SRC\_PATH.*
* *An error will pop up to indicate that source and destination types need to be the same.*

**Answer :**The source file will be copied into DEST\_PATH and will be saved as the basename from SRC\_PATH.

**True or False?**

**docker exec command only runs if the container's primary process is running.**

Options are :

* *True*
* *False*

**Answer :**True

**Which of the following commands is used to display the total disk space used by docker daemon?**

Options are :

* *docker stats*
* *dockerd info*
* *docker disk use*
* *docker system df*

**Answer :**docker system df

[Docker and Containers: Commands Set 1](https://chercher.tech/docker-certification/docker-and-containers-commands-set-1)

**Which of the following is the default mount point for a decrypted secret in a Linux container?**

Options are :

* */run/secrets/*
* */var/lib/docker/secrets/*
* */run/internal/secrets/*
* */var/lib/docker/internal/secrets/*

**Answer :**/run/secrets/

**Which of the following commands is used to login into Docker registry?**

Options are :

* *docker hub login*
* *docker login*
* *docker registry login*
* *docker client login*

**Answer :**docker login

**True or False?**

**Docker configs are encrypted and stored inside the container's RAM.**

Options are :

* *True*
* *False*

**Answer :**False

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**Which of the following sockets are used by docker daemon to listen to Docker Engine API requests?**

Options are :

* *tcp*
* *fd*
* *unix*
* *http*

**Answer :**tcp fd unix

**By default, how many layers of a docker image does docker daemon push to the Docker registry at a time?**

Options are :

* *3*
* *4*
* *1*
* *5*

**Answer :**5

**Which of the following statements is NOT true? By default all files created inside a container are stored on a writable container layer. This means that:**

Options are :

* *The data persists when that container no longer exists (Correct)*
* *Two different containers can’t share the data present in their writable layer.*
* *A container’s writable layer is tightly coupled to the host machine where the container is running. You can’t easily move the data somewhere else.*
* *Writing into a container’s writable layer requires a storage driver to manage the filesystem.*

**Answer :**The data persists when that container no longer exists

**Fill in the blanks When you create a new container, you add a new \_\_\_\_\_\_ layer on top of the underlying layers. This layer is often called the “container layer”.**

Options are :

* *read only*
* *writable (Correct)*
* *filesystem*
* *volume*

**Answer :**writable

**By default, removing a container also removes the volumes attached to it.**

Options are :

* *TRUE*
* *FALSE (Correct)*

**Answer :**FALSE

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**Which of the following is NOT true about secrets?**

Options are :

* *Secrets are encrypted during transit and also at rest*
* *Secrets are available to swarm services and standalone containers (Correct)*
* *Secrets are mounted in container’s filesystem directly*
* *Secrets can be used for storing username and password*

**Answer :**Secrets are available to swarm services and standalone containers

**Which one is a valid command to run a global service in docker swarm?**

Options are :

* *docker service create --mode global (Correct)*
* *docker swarm create --mode global*
* *docker service create --global*
* *docker swarm create --global*

**Answer :**docker service create --mode global

**Which of the following patterns would exclude all Python byte-code files from being copied during the Docker image creation process?**

Options are :

* *\*\*.pyc*
* *\*\*/\*.pyc (Correct)*
* *\*.pyc*
* */\*.pyc*

**Answer :**\*\*/\*.pyc

[Docker Certified Associate (DCA) Practice Exams Set 16](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-16)

**Bob has configured his docker daemon to use syslog log driver by default, how can he run a container which uses json-file log driver?**

Options are :

* *By using “--log-opt json-file” along with docker run*
* *By using “--log-driver json-file” along with docker run (Correct)*
* *By using “--logger json-file” along with docker run*
* *Not possible*

**Answer :**By using “--log-driver json-file” along with docker run

**Which of the following commands can be used to see IPv4 subnet of a network**

Options are :

* *docker network ls*
* *docker info network*
* *docker network info*
* *docker network inspect (Correct)*

**Answer :**docker network inspect

**You want to ensure that a container doesn’t exceed memory usage than a specified amount. Which of the following will be used by default by docker to achieve that?**

Options are :

* *namespaces*
* *selinux*
* *cgroups (Correct)*
* *seccomp*

**Answer :**cgroups

[Docker Certified Associate (DCA) Practice Exams Set 8](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-8)

**Which of the following lvm mode should a production host using the devicemapper as a storage driver use?**

Options are :

* *loop-lvm*
* *overlay*
* *direct-lvm (Correct)*
* *zfs*

**Answer :**direct-lvm

**What is the correct order a system administrator should follow for creating a backup policy for the Docker Enterprise Edition?**

Options are :

* *swarm, ucp, dtr (Correct)*
* *dtr, ucp, swarm*
* *ucp, dtr, swarm*
* *swarm, dtr, ucp*

**Answer :**swarm, ucp, dtr

**Which of the following commands can take a tar file as an argument and add the extracted content into the image automatically?**

Options are :

* *COPY*
* *ADD (Correct)*
* *ADD and COPY both*
* *None of these*

**Answer :**ADD

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Which of the following options would enable to SSH into a running Docker container named 'nginx'?**

Options are :

* *docker exec -it nginx /bin/sh (Correct)*
* *docker inspect webserver*
* *docker run -it nginx /bin/sh*
* *docker ssh -it nginx /bin/sh*

**Answer :**docker exec -it nginx /bin/sh

**You are setting up a new Docker Swarm on AWS. You must ensure that the traffic between hosts are not block either by the Security Group Rules nor by Network Access Control List. Which of the following answers covers all ports that must be allowed between Docker hosts?**

Options are :

* *TCP/2377 and UDP/2377*
* *TCP/7946 and UDP/2377*
* *TCP/2377, TCP/7946, and UDP/7946 (Correct)*
* *TCP/2377 and TCP/4789*

**Answer :**TCP/2377, TCP/7946, and UDP/7946

**Fill in the blank: Docker Content Trust provides the ability to use \_\_\_\_\_\_\_\_\_\_ for verifying integrity and the publisher of all the data received from a registry over any channel.**

Options are :

* *end to end encryption*
* *digital signatures (Correct)*
* *symmetric key encryption*
* *a container*

**Answer :**digital signatures

**Which of the following is NOT true about secrets?**

Options are :

* *Secrets are encrypted during transit and also at rest*
* *Secrets are available to swarm services and standalone containers (Correct)*
* *Secrets are mounted in container’s filesystem directly*
* *Secrets can be used for storing username and password*

**Answer :**Secrets are available to swarm services and standalone containers

**A global service is a service that runs \_\_\_\_ task/tasks on every node that meet the placement and resource constraints**

Options are :

* *many*
* *one (Correct)*
* *more than one*
* *none*

**Answer :**one

**In order to install Docker Trusted Registry, you must install the Universal Control Plane. Is this statement TRUE or FALSE?**

Options are :

* *TRUE (Correct)*
* *FALSE*

**Answer :**TRUE

**Docker image consists of \_\_\_\_\_ layers each of which represents a Dockerfile instruction. The layers are stacked and each one is a delta of the changes from the previous layer.**

Options are :

* *read and write*
* *write only*
* *read only (Correct)*
* *movable*

**Answer :**read only

**Which of the following commands can be used to get the disk space used by a running container?**

Options are :

* *docker ps -s (Correct)*
* *docker ls -s*
* *docker image ls*
* *docker stats*

**Answer :**docker ps -s

**Which of the following commands can take a tar file as an argument and add the extracted content into the image automatically?**

Options are :

* *COPY*
* *ADD (Correct)*
* *ADD and COPY both*
* *None of these*

**Answer :**ADD

**Which of the following commands can use a remote URL to get files inside image?**

Options are :

* *COPY*
* *ADD (Correct)*
* *ADD and COPY both*
* *DOWNLOAD*

**Answer :**ADD

**Which of the following statements is NOT TRUE about multi-stage builds?**

Options are :

* *Multi-stage builds eliminates the need of separate Dockerfiles.*
* *Multi-stage builds helps on creation of smaller image sizes.*
* *You cannot select which step you want to start your build process in a multi-stage build once you defined all steps. (Correct)*
* *With multi-stage builds, you can create images for different purposes, such as development and production.*

**Answer :**You cannot select which step you want to start your build process in a multi-stage build once you defined all steps.

**Given the following Dockerfile, which of the following is TRUE about it? --- FROM golang:latest ADD . /app/example WORKDIR /app/example RUN go mod download RUN CGO\_ENABLED=0 GOOS=linux GOARCH=amd64 go build -a -o /my-webapp . FROM alpine:latest RUN apk --no-cache add ca-certificates COPY --from=0 /app/example/my-webapp ./ RUN chmod +x ./my-webapp ENTRYPOINT ["./my-webapp"] EXPOSE 8080 ---**

Options are :

* *The first image will create a binary file sucessfully. The second image will fail to run the binary because of the missing 'go' binary.*
* *This will create a image based on both layers found in golang and alpine images.*
* *This will create an image which is based on alpine base image. (Correct)*
* *This will create an image which is based on golang base image.*

**Answer :**This will create an image which is based on alpine base image.

**Alice created a custom Docker image for a Java web application called "voteapp" which contains a large potion of commands in order to build the application. She pushed this image to the registry and deleted the Docker file by accident. She doens't know what are the steps needs to build this image back. Which of the following commands would help her to describe the steps she took in order to build this image?**

Options are :

* *docker inspect voteapp:latest*
* *docker image history voteapp:latest (Correct)*
* *docker image describe voteapp:latest*
* *docker image ls*

**Answer :**docker image history voteapp:latest

**Which of the following is NOT a supported storage backend for a centralized storage in DTR?**

Options are :

* *Openstack Swift.*
* *NFS.*
* *Google Cloud Storage.*
* *AWS EBS volumes. (Correct)*

**Answer :**AWS EBS volumes.

**If we don't specify a tag then by convention which tag is pulled while running docker pull command?**

Options are :

* *production*
* *staging*
* *latest (Correct)*
* *master*

**Answer :**latest

**What are the constraints of running the "docker stack deploy" command?**

Options are :

* *If you have multiple nodes in your swarm, this command must be run from a manager node. (Correct)*
* *If you have multiple nodes in your swarm, this command can be run from any node in the swarm.*
* *This command cannot create networks and must be done separately.*
* *This command is only available on the Docker Enterprise edition.*

**Answer :**If you have multiple nodes in your swarm, this command must be run from a manager node.

**Which of the following statement is correct? Pick exactly two statements.**

Options are :

* *Image is a collection of immutable layers whereas container is a running instance of an image. (Correct)*
* *Container can exist without the image but image cannot exist without container*
* *Only one container can be spawned from a given image at a time*
* *If multiple containers are spawned from the same image then they all use the same copy of image in memory. (Correct)*

**Answer :**Image is a collection of immutable layers whereas container is a running instance of an image. If multiple containers are spawned from the same image then they all use the same copy of image in memory.

**Overlay networks cannot be created if docker engine is not a manager node in docker swarm?**

Options are :

* *TRUE (Correct)*
* *FALSE*

**Answer :**TRUE

**Domain: Orchestration**

**Fill in the blanks:**

**A stack is a collection of \_\_\_\_\_\_ that make up an application in a specific environment**

Options are :

* *Services (Correct)*
* *Images*
* *Containers*
* *Files*

**Answer :**Services

**Domain: Security**

**Which of the following is NOT true about control group?**

Options are :

* *Cgroups is a kennel level feature provided by Docker (Correct)*
* *They implement resource accounting and limiting*
* *They also help ensure that each container gets its fair share of memory, CPU, disk l/O; and*

**Answer :**Cgroups is a kennel level feature provided by Docker

**Domain: Security**

**The processes spawned by a container are run as what user by default?**

Options are :

* *Any non-root user*
* *User who executes docker run command*
* *Guest-user*
* *Root (Correct)*

**Answer :**Root

**Domain: Installation and Configuration**

**What is the default location of secrets inside a Docker container?**

Options are :

* */var/run*
* */run/secrets/*
* */run/secrets/ (Correct)*
* */secrets/*

**Answer :**/run/secrets/

**Domain: Orchestration**

**Which of the following options is NOT backed up when you backup UCP?**

Options are :

* *Names volume*
* *Metrics from monitoring data*
* *Configurations*
* *Configs and secrets (Correct)*

**Answer :**Configs and secrets

**Domain: Image Creation, Management, and Registry**

**Which of the following statements is NOT TRUE about multi-stage builds?**

Options are :

* *Multi-stage builds eliminate the need of separate Dockerfiles*
* *Multi-stage builds help on creation of smaller image sizes*
* *You cannot select which step you want to start your build process in a multi-stage build once you defined all steps (Correct)*

**Answer :**You cannot select which step you want to start your build process in a multi-stage build once you defined all steps

**Domain: Orchestration**

**You are running a Docker Trusted Registry in your swarm with 5 replicas. You also maintain a routine backup of this service. One day, some worker nodes failed. Because of that, some services were affected, including 2 replicas of the Docker Trusted Registry. Do you have to start a restore process from the backup files?**

Options are :

* *False (Correct)*
* *True*

**Answer :**False

**Domain: Image Creation, Management, and Registry**

**What are the constraints of running the "docker stack deploy" command?**

Options are :

* *This command cannot create networks and must be done separately*
* *This command is only available on the Docker Enterprise edition*
* *If you have multiple nodes in your swarm, this command can be run from any node in the swarm*
* *If you have multiple nodes in your swarm, this command must be run from a manager node (Correct)*

**Answer :**If you have multiple nodes in your swarm, this command must be run from a manager node

**Domain: Image Creation, Management, and Registry**

**Alice created a custom Docker image for a Java web application called "voteapp" which contains a large portion of commands in order to build the application. She pushed this image to the registry and deleted the Docker file by accident. She doesn't know what are the steps needs to build this image back. Which of the following commands would help her to describe the steps she took in order to build this image?**

Options are :

* *Docker inspect voteapp.latest*
* *Docker image history voteapp.latest (Correct)*
* *Docker image Ls*
* *Docker image describe voteapp.latest*

**Answer :**Docker image history voteapp.latest

**Domain: Image Creation, Management, and Registry**

**In order to install Docker Trusted Registry, you must install the Universal Control Plane. Is this statement TRUE or FALSE?**

Options are :

* *False*
* *True (Correct)*

**Answer :**True

**Domain: Storage and Volumes**

**Which of the following is NOT true?**

Options are :

* *Bind mount can only be mounted inside container in read only mode so as to prevent file corruption (Correct)*
* *Volumes are easier to back up or migrate than bind mounts*
* *Volumes can be more safely shared among multiple containers*

**Answer :**Bind mount can only be mounted inside container in read only mode so as to prevent file corruption

**Domain: Orchestration**

**Which of the following options is NOT backed up when you backup UCP?**

Options are :

* *Configurations*
* *Configs and secrets (Correct)*
* *Names volum*
* *Metrics from monitoring data*

**Answer :**Configs and secrets

**Domain: Orchestration**

**Which of the following options are available to run a single container?**

Options are :

* *Published port, user, log, driver, placement constraints*
* *Volume, secrets, log driver, memory limit*
* *Published port, user, log, driver, restart policy (Correct)*
* *Published port, volume, secrets, log driver*

**Answer :**Published port, user, log, driver, restart policy

**Domain: Networking**

**You are setting up a new Docker Swarm on AWS. You must ensure that the traffic between hosts are not block either by the Security Group Rules nor by Network Access Control List. Which of the following answers covers all ports that must be allowed between Docker hosts?**

Options are :

* *TCP/7946 and UDP/7946*
* *TCP/2337, TCP/7946 and UDP/7946 (Correct)*
* *TCP/2337 and UDP/2337*

**Answer :**TCP/2337, TCP/7946 and UDP/7946

**Domain: Networking**

**Which of the following is default network in docker?**

Options are :

* *Bridge (Correct)*
* *Host*
* *Macvlan*
* *Overlay*

**Answer :**Bridge

**Domain: Installation and Configuration**

**How do you setup the default logging driver on Docker daemon to be the syslog driver?**

Options are :

* *A. On /etc/docker/daemon . json or C : \programData \docker\config\daemon . json. just add: { "log-driver" : "syslog" } (Correct)*
* *A. On /etc/docker/daemon . cfg or C : \programData \docker\config\daemon . cfg. just add: { "log-driver" : "syslog" }*
* *On /etc/docker/daemon . yaml or c : \programData \docker\config\daemon.yaml.just add: log-driver: "syslog"*

**Answer :**A. On /etc/docker/daemon . json or C : \programData \docker\config\daemon . json. just add: { "log-driver" : "syslog" }

**Domain: Orchestration**

**What is the correct order a system administrator should follow for creating a backup policy for the Docker Enterprise Edition?**

Options are :

* *Swarm, dtr, ucp*
* *Dtr, ucp, swarm*
* *Ucp, swarm, dtr*
* *Swarm, ucp, dtr (Correct)*

**Answer :**Swarm, ucp, dtr

**Domain: Orchestration**

**You are running a Docker Swarm with autolock feature enabled. Which of the following statement below is NOT TRUE regarding to autolock feature in Docker?**

Options are :

* *You need to unlock the key in case one of the manager node was restarted*
* *The autolock feature was created to encrypt secrets in the rafts logs securely*
* *If you lost the unlock key, you must create a new one from the manager node by rotating the unlock key (Correct)*

**Answer :**If you lost the unlock key, you must create a new one from the manager node by rotating the unlock key

**Domain: Orchestration**

**Bob is running a docker swarm cluster with multiple manager nodes. Bob needs to remove one the manager nodes from the cluster permanently. Bob has access to this manager node. What is the safest way for him to remove a manager node from the cluster?**

Options are :

* *Simply shut down the server and left the Raft quorum decides to remove it permanently from the swarm*
* *Run "docker swarm leave" on the specific nodes*
* *Firstly, demote manager node to a worker and then remove it using "docker swarm leave" (Correct)*

**Answer :**Firstly, demote manager node to a worker and then remove it using "docker swarm leave"

**A docker service 'web' is running with a scale factor of 1 (replicas = 1). John intends to use the command 'docker service update --replicas=3 web'. Ana intends to use the command 'docker service scale web=3'. How do the outcomes of these two commands differ?**

Options are :

* *John's command only updates the service definition, but no new replicas are started. Ana's command results in the actual scaling up of the 'web' service.*
* *John's command results in an error. Ana's command updates the number of replicas of the 'web' service to 3.*
* *John's command updates the number of replicas of the 'web' service to 3. Ana's command results in an error.*
* *Both John's and Ana's commands result in exactly the same outcome, which is 3 instances of the 'web' service. (Correct)*

**Answer :**Both John's and Ana's commands result in exactly the same outcome, which is 3 instances of the 'web' service.

**What is the docker command to add or update a node label?**

Options are :

* *docker node modify --set-label*
* *docker node update --set-label*
* *docker node update --label-add (Correct)*
* *docker node add --label*

**Answer :**docker node update --label-add

**Which command interactively monitors all container activity in the Docker engine?**

Options are :

* *docker container events*
* *docker container logs*
* *docker system events (Correct)*
* *docker system logs*

**Answer :**docker system events

**A user is having problems running Docker. Which of the following will start Docker in debug mode?**

Options are :

* *Set the logging key to debug in the 'daemon.json' file.*
* *Start the 'dockerd' process manually with the '--logging' flag set to debug*
* *Start the 'dockerd' process manually with the '--raw-logs' flag set to debug*
* *Set the debug key to true in the 'daemon.json' file. (Correct)*

**Answer :**Set the debug key to true in the 'daemon.json' file.

**What are the steps needed to sign images in a way that UCP trusts them? (Select all that apply)**

Options are :

* *Approve image sign on UCP*
* *Initialize trust metadata for the repository (Correct)*
* *Delegate signing to the keys in your UCP client bundle (Correct)*
* *Configure Notary client (Correct)*

**Answer :**Initialize trust metadata for the repository Delegate signing to the keys in your UCP client bundle Configure Notary client

**What are the two types of UCP client bundles?**

Options are :

* *Docker CLI bundles and Docker web UI bundles*
* *Docker UCP client bundles and DTR client bundles*
* *Admin user certificate bundles and user certificate bundles (Correct)*
* *A. Ops client bundles and dev client bundles*

**Answer :**Admin user certificate bundles and user certificate bundles

**Dockerfile option EXPOSE publish the port to external systems. True or false?**

Options are :

* *False (Correct)*
* *True*

**Answer :**False

**What are the requirements to install Docker Trusted Registry (DTR)? (Select all that apply)**

Options are :

* *All nodes must have a fixed hostname (Correct)*
* *DTR can be installed on-premises or on a cloud provider (Correct)*
* *Make sure the port 8080 and 8443 are open on the node*
* *All nodes must be a worker node managed by Universal Control Plan (Correct)*

**Answer :**All nodes must have a fixed hostname DTR can be installed on-premises or on a cloud provider All nodes must be a worker node managed by Universal Control Plan

**Which of the following is NOT one of the 3 main Docker Container Network Model components?**

Options are :

* *Endpoint*
* *Sandbox*
* *Network*
* *Routing (Correct)*

**Answer :**Routing

**You can monitor the status of UCP by using the web UI or the CLI. True or false?**

Options are :

* *False*
* *True (Correct)*

**Answer :**True

**Which of the following items need to be considered before installing Docker Enterprise?**

Options are :

* *Disk space*
* *All of the options (Correct)*
* *Time Synchronization*
* *Network ports*
* *Docker Engine, DTR, and UCP version compatibility*

**Answer :**All of the options

**Which of the following options contribute directly to Docker security? (select all that apply)**

Options are :

* *Seccomp (Correct)*
* *Garbage Collection (Correct)*
* *Control groups*
* *Namespaces (Correct)*

**Answer :**Seccomp Garbage Collection Namespaces

**Each time a new node joins the swarm, the manager issues a certificate to the node. True or False?**

Options are :

* *TRUE (Correct)*
* *FALSE*

**Answer :**TRUE

**Which of the following is not a valid role in UCP?**

Options are :

* *Executor (Correct)*
* *None*
* *Restricted Control*
* *View Only*

**Answer :**Executor

**Which of the following options can you use for publishing and managing trusted collections of content?**

Options are :

* *Notary tool*
* *DISA*
* *docker trust command (Correct)*
* *docker secure command*

**Answer :**docker trust command

**Which flags of docker swarm update command enable and/or disable autolock on an existing swarm? (select two)**

Options are :

* *--autolock=enable*
* *--autolock=false (Correct)*
* *--autolock=disable*
* *--autolock=true (Correct)*

**Answer :**--autolock=false --autolock=true

**What security needs does mutual Transport Layer Security (MTLS) satisfy in a swarm? (select all that apply)**

Options are :

* *encrypt communication within the cluster (Correct)*
* *authentication (Correct)*
* *auditing*
* *authorization (Correct)*

**Answer :**encrypt communication within the cluster authentication authorization

**What is the main difference between UCP workers and managers?**

Options are :

* *Ucp-agent service automatically starts serving UCP components and proxy service only on worker node.*
* *Ucp-agent service automatically starts serving all UCP components in manager node and only proxy service in worker node. (Correct)*
* *Ucp-agent service automatically starts serving UCP components and proxy service only on manger node.*
* *Ucp-agent service automatically starts serving UCP components in worker node, and only a proxy service in manager node.*

**Answer :**Ucp-agent service automatically starts serving all UCP components in manager node and only proxy service in worker node.

**Which of the following could not represent a subject in the RBAC model?**

Options are :

* *team*
* *organization*
* *user*
* *root (Correct)*

**Answer :**root

**What Docker EE feature allows a user to always go back to the specific tag and trust it has not changed.**

Options are :

* *Image Mirroring*
* *Image Immutability (Correct)*
* *There no feature like this.*
* *Image Promotion Policy*

**Answer :**Image Immutability

**The core component of UCP that is a globally-scheduled service is called?**

Options are :

* *ucp-agent (Correct)*
* *ha-agent*
* *ucp-manager*
* *ucp-daemon*

**Answer :**ucp-agent

**What does the following error indicate?**

**x509: certificate signed by unknown authority**

Options are :

* *User is running a docker command on UCP node without client certificate. (Correct)*
* *User is running a docker swarm command on manager without client certificate.*
* *User is not registered on docker hub.*
* *User have entered incorrect captcha.*

**Answer :**User is running a docker command on UCP node without client certificate.

**You want to enable The Docker Security Scan process. But you are unable to do so. What could be the reason?**

Options are :

* *All answers are valid. (Correct)*
* *Security Scanning in not enabled in DTR.*
* *You are using Docker Community Edition.*
* *You do not have the authority to download the security scanning licence for DTR.*

**Answer :**All answers are valid.

**Which of the following is not valid team permission in Docker Trusted Registry?**

Options are :

* *Read only*
* *Manager (Correct)*
* *Read & Write*
* *Admin*

**Answer :**Manager

**Which of the following is not a valid entity in the grant permission model in UCP?**

Options are :

* *resource sets*
* *role*
* *certificates (Correct)*
* *subject*

**Answer :**certificates

**What is the default period after which a node certificate expires in UCP?**

Options are :

* *None of the answers is correct*
* *1 year*
* *90 days (Correct)*
* *24 hours*

**Answer :**90 days

**Where can you configure the option to integrate Docker with LDAP?**

Options are :

* *Docker Trusted Registry*
* *Docker Compose*
* *Universal Control Plane (Correct)*
* *Docker Machine*

**Answer :**Universal Control Plane

**Which of the following components can you use to create users and teams?**

Options are :

* *Docker Compose*
* *Docker Machine*
* *Docker Trusted Registry*
* *Universal Control Plane (Correct)*

**Answer :**Universal Control Plane

**A service 'wordpress' is running using a password string to connect to a non-dockerized database service. The password string is passed into the 'wordpress' service as a docker secret. Per security policy, the password on the database was changed. Identify the correct sequence of steps to rotate the secret from the old password to the new password.**

Options are :

* *Create a new docker secret with the new password. Remove the existing service using 'docker service rm'. Start a new service with the new secret using "--secret="*
* *Create a new docker secret with the new password. Trigger a rolling secret update by using the 'docker secret update' command.*
* *Trigger an update to the service by using 'docker service update --secret='*
* *Create a new docker secret with the new password. Trigger a rolling update of the "wordpress" service, by using "-- secret-rm" & "--secret-add" to remove the old secret and add the updated secret. (Correct)*

**Answer :**Create a new docker secret with the new password. Trigger a rolling update of the "wordpress" service, by using "-- secret-rm" & "--secret-add" to remove the old secret and add the updated secret.

**When initializing a swarm, what command can you use to specify your own externally-generated root Certificate Authority?**

Options are :

* *docker swarm init --external-cert*
* *docker swarm init --external-ca (Correct)*
* *docker int swarm --external-ca*
* *docker int swarm --external-cert*

**Answer :**docker swarm init --external-ca

**Which of the following options is best to enable developers to read logs?**

Options are :

* *Allow access only via docker logs.*
* *Enable centralized and remote logging using syslog. (Correct)*
* *Grant them SSH access to the host server to read the logs directly.*
* *None of the answers is correct.*

**Answer :**Enable centralized and remote logging using syslog.

**What happens if you create a Dockerfile and you don’t specify a USER directive?**

Options are :

* *Docker daemon will create a user with the minimum privileadge required to run the container*
* *You will get an error at build time.*
* *By default, the user inside the container created from this Dockerfile is root. (Correct)*
* *None of the answers is correct.*

**Answer :**By default, the user inside the container created from this Dockerfile is root.

**You can have a hybrid composition of users backed by an LDAP/AD group plus users set-up manually. True or False?**

Options are :

* *TRUE*
* *FALSE (Correct)*

**Answer :**FALSE

**Docker security scan process can be started by all users including those with read-only access. True or false?**

Options are :

* *FALSE (Correct)*
* *TRUE*

**Answer :**FALSE

**You need control of a sound device on the host server from a container. What command should you use?**

Options are :

* *None of the answers is correct.*
* *docker run --cap-add=/dev/snd*
* *docker run --device=/dev/snd:/dev/snd (Correct)*
* *docker run --privileged*

**Answer :**docker run --device=/dev/snd:/dev/snd

**What is the purpose of a ConfigMap in Kubernetes?**

Options are :

* *To decouple environment-specific configuration from your application. (Correct)*
* *None of the answers is true.*
* *To keep all configurations in one place.*
* *To store confidential data in key-value pairs.*

**Answer :**To decouple environment-specific configuration from your application.

**What is the purpose of docker inspect command?**

Options are :

* *To inspect changes to files or directories on a container's filesystem*
* *To display system-wide information*
* *To return low-level information on Docker objects (Correct)*
* *To manage Docker configs*

**Answer :**To return low-level information on Docker objects

**When Docker is running in swarm mode, you can still run standalone containers on any of the Docker hosts participating in the swarm.**

Options are :

* *FALSE*
* *TRUE (Correct)*

**Answer :**TRUE

**In which of the following cases you need to define a readiness probe on a Kubernetes Pod template definition? (Select all that apply)**

Options are :

* *If you want to start sending traffic to a Pod only when a probe succeeds. (Correct)*
* *If you want to be able to drain requests when the Pod is deleted.*
* *If your Container needs to work on loading large data during startup. (Correct)*
* *If you want your Container to be able to take itself down for maintenance. (Correct)*

**Answer :**If you want to start sending traffic to a Pod only when a probe succeeds. If your Container needs to work on loading large data during startup. If you want your Container to be able to take itself down for maintenance.

**Which of the following scenarios would still allow the quorum to administrate tasks in a swarm cluster? (Choose two)**

Options are :

* *A 4-node cluster with 2 nodes down.*
* *A 3-node cluster with 1 node down. (Correct)*
* *A 3-node cluster with 2 nodes down*
* *A 7-node cluster with 3 nodes down. (Correct)*

**Answer :**A 3-node cluster with 1 node down. A 7-node cluster with 3 nodes down.

**What docker command can you use to add a placement preference to an existing service?**

Options are :

* *docker service update --placement-constraint-add*
* *docker service update --pref-add*
* *docker service update --constraint-add*
* *docker service update --placement-pref-add (Correct)*

**Answer :**docker service update --placement-pref-add

**Here is a list of all the docker images stored on your docker host. Out of all these images, we want to remove images referencing to the fd484f19954f image tag. Which of the following commands will return a flawless result?**

1. **REPOSITORY TAG IMAGE ID CREATED SIZE**
2. **img-1 latest fd484f19954f 23 seconds ago 7 B (virtual 4.964 MB)**
3. **img-2 latest fd484f19954f 23 seconds ago 7 B (virtual 4.964 MB)**
4. **img-3 latest fd484f19954f 23 seconds ago 7 B (virtual 4.964 MB)**
5. **img-4 latest ba458d17824c 30 seconds ago 7 B (virtual 4.964 MB)**
6. **img-5 latest ca562b85961a 52 seconds ago 7 B (virtual 4.964 MB)**

Options are :

* *docker rmi fd484f19954f*
* *docker rmi -f fd484f19954f*
* *docker rmi --all*
* *docker image prune --all*

**Answer :**docker rmi -f fd484f19954f

[Docker Certified Associate (DCA) Practice Exams Set 10](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-10)

**Which of the following commands is used to update the container's configuration dynamically?**

Options are :

* *docker update*
* *docker container upgrade*
* *docker config --update*
* *docker settings update*

**Answer :**docker update

**Which of the following algorithms is used by the manager node to manage the state of the swarm cluster?**

Options are :

* *Proof-of-Authority algorithm*
* *Unique node list algorithm*
* *SIEVE consensus algorithm*
* *Raft consensus algorithm*

**Answer :**Raft consensus algorithm

**How many cgroups are created for each container in Docker?**

Options are :

* *1*
* *2*
* *3*
* *4*

**Answer :**1

[Docker and Containers: Commands Set 4](https://chercher.tech/docker-certification/docker-and-containers-commands-set-4)

**True or False?**

**By default, a container can only consume 60% of the resources provided by the host's kernel scheduler.**

Options are :

* *True*
* *False*

**Answer :**False

**Which of the following storage drivers is used for testing purposes and for systems without a copy-on-write strategy?**

Options are :

* *overlay2*
* *aufs*
* *devicemapper*
* *vfs*

**Answer :**vfs

**Which of the following storage drivers are block-level storage drivers?**

Options are :

* *zfs*
* *aufs*
* *overlay2*
* *devicemapper*

**Answer :**zfs devicemapper

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**True or False?**

**The overlay storage driver only works with 2 layers: lowerdir and upperdir.**

Options are :

* *True*
* *False*

**Answer :**True

**Which of the following mechanisms is used by nodes to authenticate, authorize, and encrypt the communications with other nodes in the swarm?**

Options are :

* *Zimmermann Real-Time Transport Protocol*
* *Transport Level Security*
* *GNU Privacy Guard*
* *Double Ratchet Algorithm*

**Answer :**Transport Level Security

**Which of the following is the default AppArmor security profile for containers in Docker?**

Options are :

* *docker-app*
* *docker-secure*
* *docker-default*
* *docker/apparmor*

**Answer :**docker-default

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**By default, how much time does a node take to renew its certificate in a swarm cluster?**

Options are :

* *12 days*
* *20 days*
* *60 days*
* *90 days*

**Answer :**90 days

**Which of the following commands is used to force a worker-1 node to leave the swarm cluster?**

Options are :

* *docker swarm leave --force*
* *docker swarm leave --force worker-1*
* *docker swarm exit --force*
* *docker swarm exit --force worker-1*

**Answer :**docker swarm leave --force

**Which of the following role-grants does Kubernetes provide?**

Options are :

* *ClusterRoleBinding*
* *NodeRoleBinding*
* *RoleBinding*
* *PodRoleBinding*

**Answer :**ClusterRoleBinding RoleBinding

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**True or False?**

**If the type of orchestrator is changed, the existing workload will migrate to the new orchestrator automatically.**

Options are :

* *True*
* *False*

**Answer :**False

**Which of the following commands is used to schedule swarm workloads on a node?**

Options are :

* *docker node update \ --label-add com.docker.orchestrator.swarm=true*
* *docker node update \ --label-add com.docker.ucp.orchestrator.swarm=true*
* *docker node update \ --label-add com.docker.orchestrator.ucp.swarm=true*
* *docker node update \ --add-label com.docker.orchestrator.ucp.swarm=true*

**Answer :**docker node update \ --label-add com.docker.ucp.orchestrator.swarm=true

**Which of the following networks is used as the default network for kubernetes by Universal Control Plane?**

Options are :

* *Weave net*
* *Flannel*
* *Calico*
* *Cilium*

**Answer :**Calico

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**Fill in the blanks.**

**The repository's name should be \_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_ characters long.**

Options are :

* *1 to 255 characters*
* *2 to 255 characters*
* *3 to 255 characters*
* *4 to 255 characters*

**Answer :**2 to 255 characters

**Which of the following licences is followed by the official distribution of Docker?**

Options are :

* *MIT software licence*
* *Creative Commons*
* *BSD*
* *Apache 2.0*

**Answer :**Apache 2.0

**True or False?**

**Docker Trusted Registry can only be installed on-premise.**

Options are :

* *True*
* *False*

**Answer :**False

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**According to Docker, how many nodes should be set up in a cluster to achieve high-availability on DTR?**

Options are :

* *minimum of 3 nodes*
* *minimum of 2 nodes*
* *minimum of 4 nodes*
* *minimum of 5 nodes*

**Answer :**minimum of 3 nodes

**Which of the following endpoints exposed by DTR is used to monitor the health of DTR replicas?**

Options are :

* */\_ping*
* */\_connect*
* */\_staus*
* */\_healthcheck*

**Answer :**/\_ping

**How would you define Notary in Docker Trusted Registry?**

Options are :

* *It is a tool for 3rd party volume management.*
* *It is a tool for image storage, management, and disposal.*
* *It is a tool for user authentication and management.*
* *It is a tool for publishing and managing a trusted collection of content.*

**Answer :**It is a tool for publishing and managing a trusted collection of content.

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**Which of the following is the correct GUN format for naming Docker Images for Notary Client?**

Options are :

* *notary {cmd} docker.io/*
* *notary {cmd} docker.io/library/*
* *notary {cmd} docker.io/storage/*
* *notary {cmd} docker.io/system/*

**Answer :**notary {cmd} docker.io/library/

**Which of the following is not a type of Webhook?**

Options are :

* *TAG\_PULL*
* *TAG\_REPAIR*
* *PUSH\_MIRRORING*
* *PROMOTION*

**Answer :**TAG\_REPAIR

**What is a Pause Container?**

Options are :

* *An emergency backup container used to backup pod's state while pod approaches an error state.*
* *A monitor container used to monitor and log the container's boot process inside a pod.*
* *An empty container which holds cgroups, reservations, namespaces of a pod before its individual container is created.*
* *A container state between container creation state and before the container running state.*

**Answer :**An empty container which holds cgroups, reservations, namespaces of a pod before its individual container is created.

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Is it possible to join a new node to a swarm cluster after removing Universal Control Plane from the cluster?**

Options are :

* *Yes, you can go to swarm manager terminal and use docker swarm join command.*
* *No, because UCP's removal blocks any other access to swarm cluster.*
* *Yes, you can reinstall UCP on the cluster and then join the node.*
* *No, because the cluster will be unstable for any new process initialization.*

**Answer :**Yes, you can reinstall UCP on the cluster and then join the node.

**Which of the following is the core component of the Universal Control Plane?**

Options are :

* *ucp-controller*
* *ucp-manager*
* *ucp-worker*
* *ucp-agent*

**Answer :**ucp-agent

**Which of the following keys is not a Docker Trusted Content key?**

Options are :

* *tagging keys*
* *offline keys*
* *server-managed keys*
* *CA keys*

**Answer :**CA keys

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**What is the role of the mode variable in Docker Content Trust?**

Options are :

* *It changes the operating mode of the docker engine.*
* *It instructs the docker engine whether to enforce signed docker images or not.*
* *It instructs the docker engine whether the image source is trustworthy or not.*
* *It indicates the operating mode of Docker content trust.*

**Answer :**It instructs the docker engine whether to enforce signed docker images or not.

**By default, Docker runs through a non-networked UNIX socket.**

Options are :

* *True*
* *False*

**Answer :**True

**What is a "Builder Pattern" in Docker?**

Options are :

* *It is a standard to write Dockerfiles.*
* *It is a process of creating docker containers based on docker images.*
* *It is a pattern followed and suggested by Docker Swarm to bootstrap a swarm cluster.*
* *It is a design pattern used to maintain 2 individual Dockerfiles for app development and production purposes.*

**Answer :**It is a design pattern used to maintain 2 individual Dockerfiles for app development and production purposes.

[Docker Certified Associate (DCA) Practice Exams Set 2](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-2)

**True or False?**

**Docker registry is an instance of Docker Hub.**

Options are :

* *True*
* *False*

**Answer :**False

**Which of the following flags is used to change the container's default hostname?**

Options are :

* *--name*
* *--ip*
* *--hostname*
* *--rename*

**Answer :**--hostname

**Fill in the blank.**

**Services using the routing mesh are running in the \_\_\_\_\_\_\_\_\_\_\_.**

Options are :

* *Swarm mode*
* *Virtual IP mode*
* *Global mode*
* *DNSRR mode*

**Answer :**Virtual IP mode

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**Which of the following commands is used to create an overlay network for standalone containers?**

Options are :

* *docker network create -d overlay test-overlay*
* *docker network create -d overlay --attachable test-overlay*
* *docker network create --ingress test-overlay*
* *docker swarm create -d overlay test-service*

**Answer :**docker network create -d overlay --attachable test-overlay

**From whom does the container inherit the default DNS settings?**

Options are :

* *docker host*
* *docker daemon*
* *base image*
* *docker registry*

**Answer :**docker daemon

**What is the default location of the configuration files of Docker CLI?**

Options are :

* */etc/docker/daemon.json*
* *~/.docker*
* */var/lib/docker*
* */root/docker/docker\_cli*

**Answer :**~/.docker

[Docker Certified Associate (DCA) Practice Exams Set 11](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-11)

**How many characters can be contained in an image tag name?**

Options are :

* *32*
* *256*
* *64*
* *128*

**Answer :**128

**Which of the following is the default mount point for a decrypted secret in a Windows container?**

Options are :

* *C:\ProgramData\Docker\secrets*
* *C:\Users\Docker\secrets*
* *C:\Docker\secrets*
* *C:\Users\internal\Docker\secrets*

**Answer :**C:\ProgramData\Docker\secrets

**True or False?**

**Docker config is only supported by Linux containers.**

Options are :

* *True*
* *False*

**Answer :**False

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**Which of the following networks is responsible for communication between DTR components running on different nodes?**

Options are :

* *dtr-br*
* *dtr-macvlan*
* *dtr-ol*
* *dtr-host*

**Answer :**dtr-ol

[Docker Certified Associate (DCA) Practice Exams Set 8](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-8)

**True or False?**

**DTR can be installed on a standalone Docker Engine.**

Options are :

* *True*
* *False*

**Answer :**False

**Which of the following mechanisms is used to automatically delete unused image layers in DTR?**

Options are :

* *Image cleaner*
* *Garbage collection*
* *Garbage cleaner*
* *Image collection*

**Answer :**Garbage collection

**There is a DTR cluster running 6 DTR replicas. Out of which, 1 replica is behaving a bit odd than its desired state. You have been assigned the task to determine whether this cluster is healthy or not. Out of the following options, what will be your verdict?**

Options are :

* *Cluster is unhealthy because the majority of replicas are not working properly.*
* *Cluster is healthy but it has lost its quorum.*
* *Cluster is healthy because the majority of replicas are working fine.*
* *Cluster is unhealthy because one replica is not working properly.*

**Answer :**Cluster is healthy because the majority of replicas are working fine.

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**Which of the following security frameworks is used as the underlying framework in Notary to create, manage, and distribute the metadata to ensure the integrity and origin of the content?**

Options are :

* *The Operator Framework (TOF)*
* *The Update Framework (TUF)*
* *Flux*
* *Packer*

**Answer :**The Update Framework (TUF)

**What is the function of docker inspect command ?**

Options are :

* *To display system-wide information*
* *To manage Docker configs*
* *To return low-level information on Docker objects (Correct)*
* *To inspect changes to files or directories on a container's filesystem*

**Answer :**To return low-level information on Docker objects

**While updating a swarm service, which of the following flags is used to configure the maximum number of service tasks that a scheduler can update simultaneously?**

Options are :

* *--update-max-failure-ratio*
* *--update-order*
* *--update-parallelism (Correct)*
* *--update-max*

**Answer :**--update-parallelism

**Which of the following signals is sent to a running container when you run the command 'docker stop'?**

Options are :

* *SIGTERM (Correct)*
* *SIGKILL (Correct)*
* *SIGINT*
* *SIGQUIT*

**Answer :**SIGTERM SIGKILL

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**Which of the following are valid options for the '--update-failure-action' of the 'docker service create' and 'docker service update' commands?**

Options are :

* *continue (Correct)*
* *stop*
* *pause (Correct)*
* *retry*
* *rollback (Correct)*

**Answer :**continue pause rollback

**Which set of commands can identify the published port(s) for a container? (Select all that apply)**

Options are :

* *'docker network inspect','docker port'*
* *'docker container inspect', docker port' (Correct)*
* *'docker info','docker network inspect'*
* *'docker port inspect', 'docker container inspect'*

**Answer :**'docker container inspect', docker port'

**Which of the following are valid operating systems to run Docker CE Desktop? (select two)**

Options are :

* *Windows 8*
* *MacOS (Correct)*
* *Windows 10 (Correct)*
* *Linux*

**Answer :**MacOS Windows 10

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**Which of the following logging drivers are mandatory for 'docker log' command to successfully function?**

Options are :

* *splunk*
* *journald (Correct)*
* *json-file (Correct)*
* *fluentd*

**Answer :**journald json-file

**What is the docker command to add a network to a service?**

Options are :

* *docker service add-network name=my-network,alias=web1 myservice*
* *docker service set --add-network name=my-network,alias=web1 myservice*
* *docker service update --network-add name=my-network,alias=web1 myservice (Correct)*
* *docker service modify --add-network name=my-network,alias=web1 myservice*

**Answer :**docker service update --network-add name=my-network,alias=web1 myservice

**Which of the following is NOT true about docker stack?**

Options are :

* *docker stack can run without docker swarm (Correct)*
* *docker stack is more suited for production environments*
* *docker stack can be used to manage multiple services*
* *docker-compose.yaml file can be used by docker stack*

**Answer :**docker stack can run without docker swarm

[Docker Certified Associate (DCA) Practice Exams Set 8](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-8)

**The following health check exists in a Dockerfile:**

**'HEALTCHECK CMD curl --fail http://localhost/health || exit 1'**

**Which of the following describes its purpose?**

Options are :

* *Defines the health check for the containerized application so that the application health can be monitored by the Docker engine.*
* *Defines the health check endpoint on the local host interface for containers to monitor the health of the docker engine.*
* *Defines the action taken when container health fails, which in this case will kill the container with exit status 1. (Correct)*
* *Defines the health check endpoint on the localhost interface for external monitoring tools to monitor the health of the docker engine.*

**Answer :**Defines the action taken when container health fails, which in this case will kill the container with exit status 1.

**From a DevOps process standpoint, it is best practice to keep changes to an application in version control. Which of the following will allow changes to a docker image to be stored in a version control system?**

Options are :

* *docker commit (Correct)*
* *A docker file*
* *A docker-compose.yaml file*
* *docker save*

**Answer :**docker commit

**Which of the following commands can be used to create a volume? (Select all that apply)**

Options are :

* *docker volume create nginxvol (Correct)*
* *docker run -d --name nginxvol -v nginxvol:/nginxvol nginx:latest (Correct)*
* *docker run -d --name nginxvol --mount source=nginxvol,target=/nginxvol nginx:latest (Correct)*
* *docker volume make nginxvol*

**Answer :**docker volume create nginxvol docker run -d --name nginxvol -v nginxvol:/nginxvol nginx:latest docker run -d --name nginxvol --mount source=nginxvol,target=/nginxvol nginx:latest

**In a Kubernetes environment, a role of Restrict Policy is associated with a user A. In this way, user  A will be unable to launch a privileged container. True or False ?**

Options are :

* *False.*
* *True (Correct)*

**Answer :**True

**Which of the following statements is incorrect?**

Options are :

* *The column 'size' of docker ps -s output shows the amount of data that is used for the writable layer of each container.*
* *When a container is deleted, the writable layer is persisted. (Correct)*
* *The column 'virtual size' of docker ps -s output shows the amount of data used for the read-only image data used by the container plus the container's writable layer 'size'.*
* *Copy-on-write is a Docker strategy of sharing and copying files for maximum efficiency.*

**Answer :**When a container is deleted, the writable layer is persisted.

**Webhooks are GET requests used to request data from the URL defined in Docker Hub. True or False ?**

Options are :

* *True*
* *False (Correct)*

**Answer :**False

**What is the recommended way to configure the daemon flags and environment variables for your Docker daemon in a platform independent way?**

Options are :

* *Set the configuration options using the ENV variable*
* *Set the configuration DOCKER\_OPTS in '/etc/default/docker'*
* *Using 'docker config' to set the configuration options.*
* *Set the configuration options in '/etc/docker/daemon.json' (Correct)*

**Answer :**Set the configuration options in '/etc/docker/daemon.json'

**Which of these swarm manager configurations will cause the cluster to be in a lost quorum state?**

Options are :

* *1 manager of which 1 is healthy*
* *3 managers of which 2 are healthy*
* *4 managers of which 2 are healthy (Correct)*
* *5 managers of which 3 are healthy*

**Answer :**4 managers of which 2 are healthy

**Which type of mount is a good use case when you do not want the data to persist either on the host machine or within the container?**

Options are :

* *Volumes*
* *bind mounts*
* *unionfs*
* *tempfs (Correct)*

**Answer :**tempfs

**Although it is possible easily edit a container hostname, a container’s hostname defaults is the container ID . True or False ?**

Options are :

* *False*
* *True (Correct)*

**Answer :**True

**What is the docker command to update an existing service?**

Options are :

* *docker service update [OPTIONS] SERVICE. (Correct)*
* *docker service change [OPTIONS] SERVICE.*
* *docker service config [OPTIONS] SERVICE.*
* *docker service modify [OPTIONS] SERVICE.*

**Answer :**docker service update [OPTIONS] SERVICE.

**Docker security scan can be started by all users including those with read-only access. True or false?**

Options are :

* *False (Correct)*
* *True*

**Answer :**False

**After restoring a swarm backup you should run 'docker swarm init' with which flag to ensure that the node does not attempt to connect to nodes that were part of the old swarm?**

Options are :

* *--restore*
* *--force*
* *--force-init*
* *--force-new-cluster (Correct)*

**Answer :**--force-new-cluster

**After creating a new service named 'http', you notice that the new service is not registering as healthy. How do you view the list of historical tasks for that service by using the command line?**

Options are :

* *'docker ps http'*
* *'docker service inspect http'*
* *'docker service ps http' (Correct)*
* *'docker inspect http'*

**Answer :**'docker service ps http'

**By default, a container has no resource constraints and can use as much of a given resource as the host’s kernel scheduler allows. True or False ?**

Options are :

* *True (Correct)*
* *False*

**Answer :**True

**Which of the Dockerfile options initializes a new build stage and sets the base image for subsequent instructions?**

Options are :

* *CMD*
* *RUN*
* *FROM (Correct)*
* *ONBUILD*

**Answer :**FROM

**What is one way of directly transferring a Docker Image from one Docker host to another?**

Options are :

* *docker commit' to save the image outside of the Docker filesystem. Then transfer the file over to the target host and 'docker start' to start the container again.*
* *docker save' the image to save it as TAR file and copy it over to the target host. Then use 'docker load' to un-TAR the image back as a Docker image. (Correct)*
* *docker push' the image to the IP address of the target host.*
* *There is no way of directly transferring Docker images between hosts. A Docker Registry must be used ad an intermediary.*

**Answer :**docker save' the image to save it as TAR file and copy it over to the target host. Then use 'docker load' to un-TAR the image back as a Docker image.

**Which of the following is the default AppArmor security profile for containers in Docker?**

Options are :

* *docker-default (Correct)*
* *docker-app*
* *docker-secure*
* *docker/apparmor*

**Answer :**docker-default

**Multiple volumes can be associated with a single Pod?**

Options are :

* *True (Correct)*
* *False*

**Answer :**True

**How many layers would the image contain given the docker file below?**

**FROM ubuntu:15.04**

**COPY . /app**

**RUN make /app**

**CMD python /app/app.py**

Options are :

* *1*
* *3*
* *2*
* *4 (Correct)*

**Answer :**4

**Which of the following commands is used to create an overlay network for standalone containers?**

Options are :

* *docker network create --ingress test-overlay*
* *docker network create -d overlay test-overlay*
* *docker swarm create -d overlay test-service*
* *docker network create -d overlay --attachable test-overlay (Correct)*

**Answer :**docker network create -d overlay --attachable test-overlay

**Which of the following commands does not associate with docker volumes?**

Options are :

* *docker volume prune*
* *docker volume inspect*
* *docker volume create*
* *docker volume backup (Correct)*

**Answer :**docker volume backup

**PersistentVolume cannot be provisioned on-demand. True or False?**

Options are :

* *TRUE*
* *FALSE (Correct)*

**Answer :**FALSE

**Which of the following commands can you use to see the storage driver that Docker is currently using?**

Options are :

* *docker config*
* *docker status*
* *docker inspect*
* *docker info (Correct)*

**Answer :**docker info

**Each storage driver has its own implementation, but all drivers use stackable image layers and the copy-on-write (CoW) strategy.**

Options are :

* *FALSE*
* *TRUE (Correct)*

**Answer :**TRUE

**Which of the following options constitutes a production-ready devicemapper configuration for the docker engine?**

Options are :

* *Create a volume group in devicemapper and utilize the '--dm.thinpooldev' Docker daemon option, specifying the volume group.*
* *Nothing, devicemapper comes ready for production usage out of the box.*
* *Utilize the '--storage-opt dm.directlvm\_device' Docker daemon option, specifying a block device. (Correct)*
* *Format a partition with the xfs and mount it at '/var/lib/docker'*

**Answer :**Utilize the '--storage-opt dm.directlvm\_device' Docker daemon option, specifying a block device.

**Where does the docker daemon persist all docker related data on the host machine?**

Options are :

* */var/lib/docker (Correct)*
* *none*
* */var/lib/docker-ce*
* */etc/docker*

**Answer :**/var/lib/docker

**A server is running low on disk space. What command can you use to check the disk usage of images, containers, and volumes for Docker engine?**

Options are :

* *docker system df (Correct)*
* *docker system free*
* *docker system prune*
* *docker system ps*

**Answer :**docker system df

**Which of the following is the docker command to remove one or more images?**

Options are :

* *docker remove*
* *docker image delete*
* *docker image rm (Correct)*
* *docker delete*

**Answer :**docker image rm

**If a container has files or directories in the directory to be mounted, the directory`s content is copied into the volume and then the volume is mounted.**

Options are :

* *TRUE (Correct)*
* *FALSE*

**Answer :**TRUE

**A container named "analytics" that stores results in a volume called "data" was created.**

**docker run -d --name=analytics -v data:/data mydb**

**How are the results accessed in "data" with another container called "reports"?**

Options are :

* *docker run -d --name=reports --volume=data myapp*
* *docker run -d --name=reports --volumes-from=analytics app (Correct)*
* *docker run -d --name=reports --volume=mydb myapp*
* *docker run -d --name=reports --mount=mydb myapp*

**Answer :**docker run -d --name=reports --volumes-from=analytics app

**What command would we use to locate the layered file system data for an image on a machine?**

Options are :

* *docker image inspect (Correct)*
* *docker layer inspect*
* *docker image layers*
* *docker pull history*

**Answer :**docker image inspect

**The devicemapper driver can only use a single block device?**

Options are :

* *TRUE*
* *FALSE (Correct)*

**Answer :**FALSE

**You have a running Ubuntu Container with bash as its default command.**

**Copy a file called "services.txt" to the tmp directory of the container.**

**Navigate inside the container and delete the /tmp directory.**

**Exit from the container and run docker diff command.**

**Which of the following would be the output of it (docker diff command)?**

Options are :

* *C /root A /root/.bash\_history D /tmp (Correct)*
* *A /root/.bash\_history C /root D /tmp*
* *None of the answers is correct*
* *C /tmp A /tmp/service.txt D /tmp*

**Answer :**C /root A /root/.bash\_history D /tmp

**Which of the following statements is true for Docker Image?**

Options are :

* *Docker Image layers are downloaded as a tar file and stored at /var/lib/docker/aufs/*
* *All the layers of a Docker Image are delta of the previous layer. (Correct)*
* *Docker Images are created using Docker Compose.*
* *All the layers of docker image are read-only.*

**Answer :**All the layers of a Docker Image are delta of the previous layer.

**Data is stored in the host system`s memory when using what type of mount?**

Options are :

* *tmpfs (Correct)*
* *volumes*
* *Regular*
* *bind mounts*

**Answer :**tmpfs

**If you want to create a container named 'myweb' with a volume inside at '/my/data/volume', which command should you use?**

Options are :

* *docker run -d --name myweb -V /my/data/volume httpd:latest*
* *docker run -d --name myweb --volumes myvol:/my/data/volume httpd:latest*
* *None of the above.*
* *docker run -d --name myweb -v myvol:/my/data/volume httpd:latest (Correct)*

**Answer :**docker run -d --name myweb -v myvol:/my/data/volume httpd:latest

**You can define a PersistentVolumeClaim without specifying a class. True or False?**

Options are :

* *TRUE (Correct)*
* *FALSE*

**Answer :**TRUE

**What docker command can you use to remove unused volumes?**

Options are :

* *docker remove volume*
* *docker prune volume*
* *docker volume prune (Correct)*
* *docker delete volume*

**Answer :**docker volume prune

**Which kind of devicemapper should you configure when installing Docker with the intent to run production workloads?**

Options are :

* *aufs-lvm*
* *loop-lvm*
* *overlay-lvm*
* *direct-lvm (Correct)*

**Answer :**direct-lvm

**What kind of relationship exists between a PersistentVolume and a PersistentVolumeClaim?**

Options are :

* *one-to-many*
* *None of the answers is correct.*
* *one-to-one (Correct)*
* *many-to-many*

**Answer :**one-to-one

**Which of the following statements about DTR garbage collection is true?**

Options are :

* *Garbage collection removes unreferenced image layers from DTR's backend storage. (Correct)*
* *Garbage collection removes DTR images that are older than a configurable of days.*
* *Garbage collection removes unused volumes from cluster nodes*
* *Garbage collection removes exited containers from cluster nodes.*

**Answer :**Garbage collection removes unreferenced image layers from DTR's backend storage.

**What is the major difference between a container and an image?**

Options are :

* *The top writable layer (Correct)*
* *The size*
* *The bottom writable layer*
* *There is no difference*

**Answer :**The top writable layer

**You have created your company's website with a feature to count the visitors and hosted it using containerized web-servers. Which of the following provisions can potentially make you lose the track of your visitor count?**

Options are :

* *bind mounts*
* *volumes*
* *tmpfs (Correct)*
* *all of the above*

**Answer :**tmpfs

**Which of the following commands will automatically create a volume when a container is run?**

Options are :

* *docker container run --name nginxtest -v myvol:/app nginx (Correct)*
* *docker container run --name nginxtest -v /app:mount nginx*
* *docker container run --name nginxtest --volume myvol:/app:new nginx*
* *docker container run --name nginxtest --volumes=/app nginx*

**Answer :**docker container run --name nginxtest -v myvol:/app nginx

**Each container shares the writeable container layer. True or false?**

Options are :

* *FALSE (Correct)*
* *TRUE*

**Answer :**FALSE

**Which of the following commands can you use to create a bind mount? (select two)**

Options are :

* *docker volume make testvol -ro*
* *docker run -d --name test -v "$(pwd)"/testvol:/testvol ubuntu:latest (Correct)*
* *docker run -d --name test --mount type=bind,source="$(pwd)"/testvol,target=/testvol ubuntu:latest (Correct)*
* *docker bind\_mount create testvol*

**Answer :**docker run -d --name test -v "$(pwd)"/testvol:/testvol ubuntu:latest docker run -d --name test --mount type=bind,source="$(pwd)"/testvol,target=/testvol ubuntu:latest

**Which of the following commands will result in the volume being removed automatically once the container has exited?**

Options are :

* *docker run --remove -v /foo busybox*
* *docker run --rm -v /foo busybox (Correct)*
* *docker run --read-only -v /foo busybox*
* *docker run --del -v /foo busybox*

**Answer :**docker run --rm -v /foo busybox

**What happened when a PersistentVolumeClaim can’t be satisfied?**

Options are :

* *None of the above.*
* *Clain will get as much resources as possible*
* *Claim will remain unbound indefinitely (Correct)*
* *Claim will throw an error when defined*

**Answer :**Claim will remain unbound indefinitely

**Which type of mount is best when you don’t want the data to persist either on the host machine or within the container?**

Options are :

* *volumes*
* *tmpfs (Correct)*
* *bind mounts*
* *Regular*

**Answer :**tmpfs

**Arrange the steps below in the correct sequence considering a copy-on-write operation;**

**A) Any modifications are made to this copy of the file, and the container cannot see the read-only copy of the file that exists in the lower layer.**

**B) Perform a copy\_up operation on the first copy of the file that is found, to copy the file to the container`s writable layer.**

**C) Search through the image layers for the file to update. The process starts at the newest layer and works down to the base layer one layer at a time. When results are found, they are added to a cache to speed future operations.**

Options are :

* *B, A, C*
* *C, B, A (Correct)*
* *A, B, C*
* *B, C, A*

**Answer :**C, B, A

**What Dockerfile option EXPOSE does?**

Options are :

* *Publish a container's port or a range of ports to the host*
* *Expose defaults for an executing container*
* *Informs Docker that the container listens on the specified network ports at runtime (Correct)*
* *Label a container that will run as an executable*

**Answer :**Informs Docker that the container listens on the specified network ports at runtime

**What is the correct order to backup Docker EE components?**

Options are :

* *Back up swarm, DTR, and then UCP*
* *Back up UCP, swarm, and then DTR*
* *Back up swarm, UCP, and then DTR (Correct)*
* *Back up DTR, UCP, and then swarm*

**Answer :**Back up swarm, UCP, and then DTR

**What is the command that need to be executed to sign an image before pushing it to repository?**

Options are :

* *export TRUST\_DOCKER\_CONTENT=1*
* *export SIGN\_DOCKER\_IMAGE=1*
* *export DOCKER\_CONTENT\_TRUST=1 (Correct)*
* *export TRUST\_DOCKER\_IMAGE=1*

**Answer :**export DOCKER\_CONTENT\_TRUST=1

**What command can be used to find the architecture and operating system that an image is compatible with?**

Options are :

* *docker image inspect --filter {{.Architecture}} {{.OS}} '*
* *docker image info*
* *docker image ls*
* *docker image inspect --format {{.Architecture}} {{.OS}} ' (Correct)*

**Answer :**docker image inspect --format {{.Architecture}} {{.OS}} '

**What is the docker command to setup a swarm?**

Options are :

* *docker create swarm*
* *docker swarm init (Correct)*
* *docker swarm create*
* *docker init swarm*

**Answer :**docker swarm init

**A sysadmin has created a Docker bridge network on a host with three containers attached. How he can make these containers accessible outside of the host?**

Options are :

* *Use --link flag to allow access to these containers on the bridge network*
* *Use --publish or -p flag allowing access to these containers on the bridge network (Correct)*
* *Use network attach to access the containers on the bridge network*
* *Use network connect to access the containers on the bridge network*

**Answer :**Use --publish or -p flag allowing access to these containers on the bridge network

**Which statement is true about DTR garbage collection?**

Options are :

* *Garbage collection removes exited containers from cluster nodes.*
* *Garbage collection removes unreferenced image layers from DTR's backend storage. (Correct)*
* *Garbage collection removes unused volumes from cluster nodes*
* *Garbage collection removes DTR images that are older than a configurable of days*

**Answer :**Garbage collection removes unreferenced image layers from DTR's backend storage.

**Which of the following commands will ensure that overlay traffic between service tasks is encrypted?**

Options are :

* *docker service create --network --secure*
* *docker network create -d overlay --secure*
* *docker service create --network --encrypted*
* *docker network create -d overlay -o encrypted=true (Correct)*

**Answer :**docker network create -d overlay -o encrypted=true

**What is the docker command to backup the UCP?**

Options are :

* *docker backup ucp*
* *docker/ucp backup (Correct)*

**Answer :**docker/ucp backup

**Which of the Dockerfile options executes any commands in a new layer on top of the current image and commit the results?**

Options are :

* *FROM*
* *ONBUILD*
* *RUN (Correct)*
* *CMD*

**Answer :**RUN

**What command can be used to create a swarm service which only listens on port 53 using the UDP protocol?**

Options are :

* *docker service create --name dns-cache -p 53:53/udp dns-cache (Correct)*
* *docker service create --name dns-cache -p 53:53 --udp dns-cache*
* *docker service create --name dns-cache -p 53:53 --service udp dns-cache*
* *docker service create --name dns-cache -p 53:53 --constraint networking-protocol-udp=true dns-cache*

**Answer :**docker service create --name dns-cache -p 53:53/udp dns-cache

**What is a grant made up of in Docker's Role Based Access Controls (RBAC)? (Select that all apply)**

Options are :

* *Role (Correct)*
* *Certificate*
* *Resource collection (Correct)*
* *Subject (Correct)*

**Answer :**Role Resource collection Subject

**Which of the following docker command can be used to find out all the ports mapped? (select all that apply)**

Options are :

* *docker network ls*
* *docker ps (Correct)*
* *docker port (Correct)*
* *docker inspect (Correct)*

**Answer :**docker ps docker port docker inspect

**Which of the following namespaces is disabled by default and must be enabled at Docker engine runtime in order to be used?**

Options are :

* *mnt*
* *pid*
* *user (Correct)*
* *net*

**Answer :**user

**What is the difference between a replicated and a global service?**

Options are :

* *Replicated service runs one task on every node. Global service runs multiple task on every node.*
* *Number of identical tasks can be specified for a replicated service. There is no pre-specified number of tasks for global service. (Correct)*
* *Good candidates for replicated service are monitoring agents that you want to run on every node in the swarm. Good candidates for global service are http servers.*
* *Replicated service can only be deployed on manager node. Global service can be deployed on both manager and worker node.*

**Answer :**Number of identical tasks can be specified for a replicated service. There is no pre-specified number of tasks for global service.

**You have deployed a service to swarm. Which command uses the Docker CLI to set the number of tasks of the services to 5? (choose all that apply)**

Options are :

* *'docker update service =5'*
* *'docker service update --replicas=5 ' (Correct)*
* *'docker replica update =5'*
* *'docker service replicas =5'*
* *'docker service scale = 5'' (Correct)*

**Answer :**'docker service update --replicas=5 ' 'docker service scale = 5''

**What is the difference between UCP workers and managers?**

Options are :

* *ucp-agent service automatically starts serving all UCP components in worker node, and only a proxy service in manager node*
* *ucp-agent service automatically starts serving all UCP components in manager node, and only a proxy service in worker node (Correct)*

**Answer :**ucp-agent service automatically starts serving all UCP components in manager node, and only a proxy service in worker node

**Which of the following is the correct command to tag an image?**

Options are :

* *docker build tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]*
* *docker tag TARGET\_IMAGE[:TAG] SOURCE\_IMAGE[:TAG]*
* *docker tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG] (Correct)*
* *docker tag image SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]*

**Answer :**docker tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]

**Which of the following is a ingress network?**

Options are :

* *host network*
* *overlay network (Correct)*
* *macvlan network*
* *bridge network*

**Answer :**overlay network

**What is the docker command to see container logs?**

Options are :

* *docker dump-logs*
* *docker fetch-logs*
* *docker logs (Correct)*
* *docker debug*

**Answer :**docker logs

**Docker security scan result is available in both UCP and DTR. True or false?**

Options are :

* *FALSE (Correct)*
* *TRUE*

**Answer :**FALSE

**Where is the option to integrate Docker Enterprise with LDAP?**

Options are :

* *Docker Trusted Registry*
* *Docker Compose*
* *Universal Control Plane (Correct)*
* *Docker Machine*

**Answer :**Universal Control Plane

**Which of the following statements is true about secrets?**

Options are :

* *Secret are stored unencrypted on manager nodes.*
* *Secrets can be created using standard input (STDIN) and a file. (Correct)*
* *Secrets can be modified after they are created.*
* *Secrets can be created from any node in the cluster.*

**Answer :**Secrets can be created using standard input (STDIN) and a file.

**Which flag for a service would allow a container to consume more than 2 GB of memory only when there is no memory contention but would also prevent a container from consuming more than 4GB of memory, in any case?**

Options are :

* *--memory-swap 2GB --limit-memory 4GB*
* *--limit-memory 2GB --reserve-memory 4GB*
* *--limit-memory 4GB --reserve-memory 2GB (Correct)*
* *--memory-swap 4GB --limit-memory 2GB*

**Answer :**--limit-memory 4GB --reserve-memory 2GB

**Docker image is built up from a series of layers and each layer represents an instruction in the image's Dockerfile. True or false?**

Options are :

* *True. (Correct)*
* *False.*

**Answer :**True.

**Which of the following tool to use to create users and teams?**

Options are :

* *Docker Compose*
* *Docker Machine*
* *Universal Control Plane (UCP) (Correct)*
* *Docker Trusted Registry (DTR)*

**Answer :**Universal Control Plane (UCP)

**A host machine has four CPUs available and two running containers. The sysadmin would like to assign two CPUs to each container. Which of the following commands achieves this?**

Options are :

* *Set the '--cpuset-quota' flag to '.5' on both containers*
* *Set the '--cpus' flag to '2' on both containers (Correct)*
* *Set the '--cpu-quota' flag to '2' on one container and '2' on the other container.*
* *Set the '--cpuset-cpu's flag to '2' on one container and '2' on the other container.*

**Answer :**Set the '--cpus' flag to '2' on both containers

**A service 'wordpress' is running using a password string to connect to a non-Dockerized database service. The password string is passed into the 'wordpress' service as a Docker secret. Per security policy, the password on the database was changed. Identity the correct sequence of steps to rotate the secret from the old password to the new password?**

Options are :

* *Create a new docker secret with the new password. Remove the existing service using 'docker service rm'. Start a new service with the new secret using "--secret="*
* *Trigger an update to the service by using 'docker service update --secret='*
* *Create a new docker secret with a new password. Trigger a rolling update of the "wordpress" service, by using "-- secret-rm" "--secret-add" to remove the old secret and add the updated secret. (Correct)*
* *Create a new docker secret with the new password. Trigger a rolling secret update by using the 'docker secret update' command*

**Answer :**Create a new docker secret with a new password. Trigger a rolling update of the "wordpress" service, by using "-- secret-rm" "--secret-add" to remove the old secret and add the updated secret.

**Which of the following are types of namespaces used by Docker to provide isolation? (Choose all that apply)**

Options are :

* *User (Correct)*
* *Process ID (Correct)*
* *Storage*
* *Network (Correct)*
* *Host*

**Answer :**User Process ID Network

**It's possible to publish all exposed ports to the host interfaces using the flag '-P' of the command 'docker run'. True or False?**

Options are :

* *True (Correct)*
* *False.*

**Answer :**True

**In which state are service’s tasks initialized?**

Options are :

* *INIT*
* *NEW (Correct)*
* *STARTING*
* *PENDING*

**Answer :**NEW

**What is the swarm unit that determines on which node a task will be scheduled?**

Options are :

* *Scheduler*
* *Orchestrator*
* *Allocator*
* *Dispatcher (Correct)*

**Answer :**Dispatcher

**Which of the following commands will show a list of volumes for a specific container?**

Options are :

* *docker volume logs nginx --containers*
* *docker container inspect nginx (Correct)*
* *docker volume inspect nginx*
* *docker container logs nginx --volumes*

**Answer :**docker container inspect nginx

**What docker command can you use to add or update a mount on an existing service?**

Options are :

* *docker service set --add-update-mount*
* *docker service --mount-volume*
* *docker service --add-update-mount*
* *docker service update --mount-add (Correct)*

**Answer :**docker service update --mount-add

**Which of the following commands will create a service called "dns\_cache" in the swarm which only listens on port 53 using the UDP protocol?**

Options are :

* *docker service create --name dns-cache -p 53:53 --service udp dns-cache*
* *docker service create --name dns-cache -p 53:53/udp dns-cache (Correct)*
* *docker service create --name dns-cache -p 53:53 --udp dns-cache*
* *docker service create --name dns-cache -p 53:53 --constraint networking-protocol-udp=true dns-cache*

**Answer :**docker service create --name dns-cache -p 53:53/udp dns-cache

**What kind of resource should you use when creating Pods that are expected to terminate, such as batch computations?**

Options are :

* *Job (Correct)*
* *StatefulSet*
* *Deployment*
* *DaemonSet*

**Answer :**Job

**What docker command can you use to remove a published port?**

Options are :

* *docker service update --publish-port-rm*
* *docker service modify --publish-port-rm*
* *docker service update --rm-port*
* *docker service update --publish-rm (Correct)*

**Answer :**docker service update --publish-rm

**How can you deploy a new service with 4 instances of nginx with a single command?**

Options are :

* *docker service scale --replicas 4 --name myservice nginx*
* *docker service scale myservice=4 nginx*
* *docker service create --instances 4 --name myservice nginx*
* *docker service create --replicas 4 --name myservice nginx (Correct)*

**Answer :**docker service create --replicas 4 --name myservice nginx

**Which of the following commands can you use to roll back to the previous version of a service?**

Options are :

* *docker service update --rollback (Correct)*
* *docker service --rollback-version*
* *docker service update --rollback-version*
* *docker service --rollback*

**Answer :**docker service update --rollback

**When there are seven managers in a swarm cluster, how would they be distributed across three datacenters or availability zones?**

Options are :

* *5/1/1*
* *4/2/1*
* *3/2/2 (Correct)*
* *3/3/1*

**Answer :**3/2/2

**How do you view the list of historical tasks for a service called "redis" by using the command line?**

Options are :

* *docker ps redis*
* *docker service ps redis (Correct)*
* *docker service inspect redis*
* *docker inspect redis*

**Answer :**docker service ps redis

**Which swarm unit is in charge to pass a task to its corresponding node using the HTTP request/response protocol?**

Options are :

* *Allocator*
* *Dispatcher*
* *Scheduler*
* *Orchestrator (Correct)*

**Answer :**Orchestrator

**What kind of format is used for the output when the --pretty flag is not specified for the docker service inspect command?**

Options are :

* *json (Correct)*
* *yaml*
* *txt*
* *xml*

**Answer :**json

**Which of the following is not a supported orchestrator in Docker EE?**

Options are :

* *Kubernetes*
* *Docker Swarm*
* *Minikube (Correct)*
* *Swarmkit*

**Answer :**Minikube

**Which of the following is the correct order of steps taken when creating a service process in swarm mode?**

Options are :

* *docker API > orchestrator > dispatcher > allocator > orchestrator*
* *docker API > scheduler > allocator > dispatcher > orchestrator*
* *docker API > orchestrator > allocator > dispatcher > scheduler (Correct)*
* *docker API > allocator > scheduler > dispatcher > orchestrator*

**Answer :**docker API > orchestrator > allocator > dispatcher > scheduler

**Bob has an application that consists of multiple different services that interact with one another. What should he use to manage his services in a Docker Swarm?**

Options are :

* *Bob should use a task.*
* *Bob should use docker-compose.*
* *Bob should use a service with multiple tasks.*
* *Bob should use a stack. (Correct)*

**Answer :**Bob should use a stack.

**Which of the following fields are required in the YAML file when defining a Kubernetes object? (Select all that apply)**

Options are :

* *kind (Correct)*
* *selector*
* *spec (Correct)*
* *apiVersion (Correct)*

**Answer :**kind spec apiVersion

**What is the difference between a replicated service and a global service?**

Options are :

* *Replicated service runs one task on every node. Global service runs multiple task on every node*
* *A number of tasks can be specified for a replicated service. There is no pre-specified number of tasks for global service (Correct)*
* *Replicated service can only be deployed on manager node. Global service can be deployed on both manager and worker node*
* *Good candidates for replicated service are monitoring agents that you want to run on every node in the swarm. Good candidates for global service are http servers.*

**Answer :**A number of tasks can be specified for a replicated service. There is no pre-specified number of tasks for global service

**In which of the following scenarios might services remain in a pending state?**

Options are :

* *All of the scenarios are valid (Correct)*
* *All nodes are paused or drained*
* *The amount of memory reserved for a service cannot be satisfied*
* *When imposed placement constraints cannot be honored*

**Answer :**All of the scenarios are valid

**You have been asked to backup the swarm state on a Linux installation. By default, where can you find the swarm state and logs stored on the manager nodes?**

Options are :

* */etc/docker/swarm*
* */var/lib/docker/swarm (Correct)*
* */var/run/docker/swarm*
* */run/docker/swarm*

**Answer :**/var/lib/docker/swarm

**Without the quorum, administrative tasks are not possible, including scaling or updating services and joining or removing nodes from the swarm.**

Options are :

* *TRUE (Correct)*
* *FALSE*

**Answer :**TRUE

**Which of the following is not a configuration option you can use when creating a docker service?**

Options are :

* *--network*
* *--mount*
* *--volume (Correct)*
* *--secret*

**Answer :**--volume

**Which of the following commands can you use to pretty-print the containers IDs, names, and statuses in tabular form?**

Options are :

* *docker ps --format table {?{.ID}} {?{.Names}} {?{.Status}}*
* *docker ps --format {?{.ID}} {?{.Names}} {?{.Status}}*
* *docker ps -format table {?{.ID}} {?{.Names}} {?{.Status}}*
* *docker ps --format "table {?{.ID}} {?{.Names}} {?{.Status}}" (Correct)*

**Answer :**docker ps --format "table {?{.ID}} {?{.Names}} {?{.Status}}"

**Which of the following are valid use cases for Kubernetes Deployments? (Select all that apply)**

Options are :

* *Declare a new state of the Pods. (Correct)*
* *To rollout a ReplicaSet. (Correct)*
* *Maintains a sticky identity for each Pod.*
* *Scale up to facilitate more load. (Correct)*

**Answer :**Declare a new state of the Pods. To rollout a ReplicaSet. Scale up to facilitate more load.

**Which of the following commands can you use to view detailed metadata about a container? (select two)**

Options are :

* *docker query*
* *docker inspect (Correct)*
* *docker metadata*
* *docker container inspect (Correct)*

**Answer :**docker inspect docker container inspect

**Which of the following are valid fields to instruct the kube-scheduler on how to place each incoming Pod across your cluster? (Select all that apply)**

Options are :

* *whenUnsatisfiable (Correct)*
* *maxSkew (Correct)*
* *global*
* *topologyKey (Correct)*

**Answer :**whenUnsatisfiable maxSkew topologyKey

**Which are the two types of docker swarm services?**

Options are :

* *distributed and replicated services*
* *local and global services*
* *replicated and global services (Correct)*
* *replicated and local services*

**Answer :**replicated and global services

**Which constraint role you use if you want to restrict a service to be scheduled only on the worker nodes in the Swarm cluster?**

Options are :

* *swarm.role == worker*
* *swarm.role != manager*
* *node.role == worker (Correct)*
* *node.role != worker*

**Answer :**node.role == worker

**Which of the following commands will ensure that a container uses a maximum of 1 GB of active memory?**

Options are :

* *docker run --memory-reservation 1G nginx*
* *docker run --memory 1G nginx (Correct)*
* *docker run --memory-swap 1G nginx*
* *docker run --memory-swap 2G --memory-reservation 1G*

**Answer :**docker run --memory 1G nginx

**Which availability mode needs to be set on a node when you need to perform maintenance on a node?**

Options are :

* *MAINTENANCE*
* *DRAIN (Correct)*
* *OFFLINE*
* *EVACUATE*

**Answer :**DRAIN

**True or False?**

**Webhooks are GET requests used to request data from the URL defined in Docker Hub.**

Options are :

* *True*
* *False*

**Answer :**False

**Which of the following UCP services is used to collect Docker system information for troubleshooting?**

Options are :

* *ucp-sysinfo*
* *ucp-dockerinfo*
* *ucp-dsdata*
* *ucp-dsinfo*

**Answer :**ucp-dsinfo

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**Which of the following ports is generally used for Kubernetes Networking in UCP?**

Options are :

* *TCP 443*
* *TCP 179*
* *TCP 4789*
* *TCP 6444*

**Answer :**TCP 179

**Which of the following commands is used to create a backup of a UCP manager node?**

Options are :

* *docker container run \ --name ucp \ --volume /var/run/docker.sock:/var/run/docker.sock \ docker/ucp \ backup [command options] > backup.tar*
* *docker container commit \ --name ucp \ --volume /var/run/docker.sock:/var/run/docker.sock \ docker/ucp \ backup [command options] > backup.tar*
* *docker container create \ --name ucp \ --volume /var/run/docker.sock:/var/run/docker.sock \ docker/ucp \ backup [command options] > backup.tar*
* *docker container backup \ --name ucp \ --volume /var/run/docker.sock:/var/run/docker.sock \ docker/ucp \ backup [command options] > backup.tar*

**Answer :**docker container run \ --name ucp \ --volume /var/run/docker.sock:/var/run/docker.sock \ docker/ucp \ backup [command options] > backup.tar

**Which of the following is the most suitable way to process the repository tag limits in DTR?**

Options are :

* *Last Input First Output*
* *First Input First Output*
* *Single Input Single Output*
* *Multiple Input Multiple Output*

**Answer :**First Input First Output

[Docker Certified Associate (DCA) Practice Exams Set 14](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-14)

**Which of the following in Docker content trust provides control over the image tag signing process?**

Options are :

* *Root certificates*
* *Delegations*
* *Docker Daemon*
* *Docker Client*

**Answer :**Delegations

**True or False?**

**Docker files scanned by antivirus software can hang the execution of Docker commands.**

Options are :

* *True*
* *False*

**Answer :**True

**Given below is a tiny Dockerfile based on the "scratch" image. If we build a docker image based on this Dockerfile, what will be the first filesystem layer of that docker image?**

1. **FROM scratch**
2. **ADD hello /**
3. **CMD ["/hello"]**

Options are :

* *scratch*
* *baserc*
* *ADD*
* *CMD*

**Answer :**ADD

[Docker Certified Associate (DCA) Practice Exams Set 14](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-14)

**Which of the following commands is used to target a specific build stage out of multi-stage builds?**

Options are :

* *docker build --target -t*
* *docker build --source -t*
* *docker build --build-stage -t*
* *docker build --tag -t*

**Answer :**docker build --target -t

**Which of the following commands is used to disable container networking for a swarm service?**

Options are :

* *docker run --rm -itd \ --network none \ --name alpine-net \ alpine:latest*
* *docker service create \ --replicas 3 \ --network none \ --name alpine-net \ alpine:latest*
* *docker swarm create \ --network none \ --name alpine-net \ alpine:latest*
* *None of the above.*

**Answer :**None of the above.

**In which of the following modes can the macvlan network be created?**

Options are :

* *local mode*
* *bridge mode*
* *host mode*
* *802.3q trunk bridge mode*

**Answer :**bridge mode

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**What kind of encryption method is used to encrypt swarm service management traffic?**

Options are :

* *AES-SGCM*
* *AES-CCM*
* *AES-GCM*
* *DES-CWC*

**Answer :**AES-GCM

**In which of the following networks does port mapping not take effect?**

Options are :

* *macvlan*
* *overlay*
* *bridge*
* *host*

**Answer :**host

**True or False?**

**The container is assigned a single IP address for every Docker network it connects to.**

Options are :

* *True*
* *False*

**Answer :**False

[Docker Certified Associate (DCA) Practice Exams Set 15](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-15)

**By default, How many IP addresses can be allocated to a single overlay network?**

Options are :

* *256*
* *512*
* *64*
* *128*

**Answer :**256

**Which of the following docker daemon flags can be used as an equivalent of com.docker.network.bridge.host\_binding\_ipv4 option while creating a custom bridge network?**

Options are :

* *--name*
* *--ipv4*
* *--ip*
* *--network*

**Answer :**--ip

**Which of the following JSON encoding properties specifies the default format for the output of docker ps command?**

Options are :

* *pstatesFormat*
* *statsFormat*
* *pslistFormat*
* *psFormat*

**Answer :**psFormat

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**What is the default value of the delay between two reset occurrences of a container?**

Options are :

* *300 ms*
* *400 ms*
* *100 ms*
* *1000 ms*

**Answer :**100 ms

**Which of the following isolation technologies is used in Docker Desktop for Windows?**

Options are :

* *namespace*
* *hypervisor*
* *cgroups*
* *users.*

**Answer :**hypervisor

**What will be the outcome of docker cp command, if the SRC\_PATH is a directory and the DEST\_PATH is a file?**

Options are :

* *The contents in DEST\_PATH will be overwritten by the source file's content.*
* *The contents of each file of SRC\_PATH will be copied into separate files into the DEST\_PATH.*
* *DEST\_PATH will be created as a directory and all the contents of the SRC\_PATH will be copied into this directory.*
* *An error will occur that it cannot copy a directory to a file.*

**Answer :**An error will occur that it cannot copy a directory to a file.

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**Which of the following filesystem changes *(in a file or directory)* are tracked with docker diff command?**

Options are :

* *A file or directory was added.*
* *A file or directory was renamed.*
* *A file or directory was changed.*
* *A file or directory was disabled.*

**Answer :**A file or directory was added. A file or directory was changed.

**Which of the following commands is used to display system-wide information of Docker?**

Options are :

* *docker info*
* *docker inspect*
* *docker engine*
* *docker --about*

**Answer :**docker info

**True or False?**

**Docker secrets are available for standalone containers as well as for swarm services.**

Options are :

* *True*
* *False*

**Answer :**False

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**Which of the following is used to store the non-sensitive information outside the service's image or running containers in Docker?**

Options are :

* *docker stats*
* *docker locker*
* *docker secrets*
* *docker config*

**Answer :**docker config

**Which of the following commands is used to create config from a file or STDIN?**

Options are :

* *docker create --config*
* *docker config create*
* *docker config run*
* *docker run --config*

**Answer :**docker config create

**Which of the following logging drivers are mandatory for docker log command to successfully function?**

Options are :

* *splunk*
* *journald*
* *json-file*
* *fluentd*

**Answer :**journald json-file

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**By default, how many layers of docker image does docker daemon pull from the docker registry at a time?**

Options are :

* *1*
* *2*
* *3*
* *4*

**Answer :**3

**Which of the following image layer storage drivers is used for Windows Images?**

Options are :

* *overlay2*
* *aufs*
* *windowsfilter*
* *zfs*

**Answer :**windowsfilter

**A container named app-env-db is serving the application environment for your upcoming app and it is ready to be deployed. You need to commit the container and push the resulting docker image to the organization's registry�dbstore, serving on port 32033. Which of the following commands will help you to fulfil this task?**

**(Note: All the prerequisites to push the docker image to docker hub have already been fulfilled.)**

Options are :

* *docker commit app-env-db test-env docker tag dbstore:32033/test-env:latest test-env docker push dbstore:32033/test-env:latest*
* *docker commit app-env-db test-ENV docker tag test-ENV dbstore:32033/test-ENV:latest docker push dbstore:32033/test-ENV:latest*
* *docker commit app-env-db test-env docker tag test-env dbstore:32033/test-env:latest docker push dbstore:32033/test-env:latest*
* *docker commit app-env-db test-env docker tag test-env dbstore/test-env:latest docker push dbstore/img-env-db:latest*

**Answer :**docker commit app-env-db test-env docker tag test-env dbstore:32033/test-env:latest docker push dbstore:32033/test-env:latest

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**While updating a swarm service, which of the following flags is used to configure the maximum number of service tasks that a scheduler can update simultaneously?**

Options are :

* *--update-order*
* *--update-parallelism*
* *--update-max*
* *--update-max-failure-ratio*

**Answer :**--update-parallelism

**Which of the following flags can be passed to make docker daemon listen to a specific IP or port?**

Options are :

* *-p*
* *-H*
* *-l*
* *-D*

**Answer :**-H

**What is "live restore" in containers?**

Options are :

* *A configuration to backup and restore the live containers' states in a named volume on the Docker host.*
* *A configuration to keep containers alive while docker daemon is unavailable.*
* *A configuration to backup and restore the swarm cluster's current state on the docker host.*
* *A configuration to revive deleted containers on the Docker host.*

**Answer :**A configuration to keep containers alive while docker daemon is unavailable.

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**Which of the following is a pseudo-file containing the CPU usage accumulated by the processes of a container?**

Options are :

* *cpuusage.stat*
* *cpuacct.stat*
* *cpushares.stat*
* *cpus.stat*

**Answer :**cpuacct.stat

**Which of the following octal values represents the world-writable file mode for tmpfs storage?**

Options are :

* *700*
* *0770*
* *1777*
* *0077*

**Answer :**1777

**Which of the following are the supported backing filesystems of overlay2 storage driver?**

Options are :

* *ext4*
* *xfs with ftype=1*
* *zfs*
* *direct-lvm*

**Answer :**ext4 xfs with ftype=1

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**How many lower OverlayFS layers does overlay2 natively support?**

Options are :

* *8*
* *32*
* *64*
* *128*

**Answer :**128

**Which operation does overlay/overlay2 storage driver perform to copy a file from lowerdir (image) to the upperdir (container)?**

Options are :

* *copy\_uplayer*
* *copy\_up*
* *copy\_upperdir*
* *copy\_dn*

**Answer :**copy\_up

**True or False?**

**By default, Docker runs through a non-networked UNIX socket.**

Options are :

* *True*
* *False*

**Answer :**True

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**Which of the following commands is used to get the state of tasks in the swarm cluster?**

Options are :

* *docker service ls*
* *docker service ps*
* *docker service stats*
* *docker service describe*

**Answer :**docker service ps

**Which of the following commands is used to generate a new root CA certificate and root CA key for the swarm cluster?**

Options are :

* *docker swarm ca*
* *docker swarm ca --ca-generate*
* *docker swarm ca --rotate*
* *docker swarm ca --ca-generate --rotate*

**Answer :**docker swarm ca --rotate

**Which of the following options can compose a Kubernetes grant?**

Options are :

* *role*
* *subject*
* *resource*
* *namespace*

**Answer :**role subject namespace

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**Which of the following orchestrators are supported by Docker?**

Options are :

* *Swarm*
* *Kubernetes*
* *Mixed*
* *vSphere*

**Answer :**Swarm Kubernetes Mixed

**What will be the orchestrator type of a newly promoted worker node?**

Options are :

* *Swarm*
* *Kubernetes*
* *Mixed*
* *It does not change.*

**Answer :**Mixed

**Which of the following commands is used to schedule kubernetes workloads on a node?**

Options are :

* *docker node update \ --label-add com.docker.ucp.orchestrator.kubernetes=true*
* *docker node update \ --label-add com.docker.orchestrator.kubernetes=true*
* *docker node update \ --label-add com.docker.orchestrator.ucp.kubernetes=true*
* *docker node update \ --add-label com.docker.orchestrator.ucp.kubernetes=true*

**Answer :**docker node update \ --label-add com.docker.ucp.orchestrator.kubernetes=true

[Docker Certified Associate (DCA) Practice Exams Set 15](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-15)

**Which of the following commands is used to access audit logs of Universal Control Plane?**

Options are :

* *docker logs ucp-agent*
* *docker logs ucp*
* *docker logs ucp --audit*
* *docker logs ucp-controller*

**Answer :**docker logs ucp-controller

**You want to take a node down for maintenance. Which command will drain a node that has tasks assigned to it?**

Options are :

* *docker node update --availability drain (Correct)*
* *docker node update --availability maintenance*
* *docker task update drain*
* *docker service update --availability drain*

**Answer :**docker node update --availability drain

[Docker Certified Associate (DCA) Practice Exams Set 16](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-16)

**Which flags for a service would allow a container to consume more than 2 GB of memory only when there is no memory contention but would also prevent a container from consuming more than 4GB of memory in any other case?**

Options are :

* *--memory-swap 4GB --limit-memory 2GB*
* *--memory-swap 2GB --limit-memory 4GB*
* *--memory 4GB --memory-reservation 2GB (Correct)*
* *--limit-memory 2GB --reserve-memory 4GB*

**Answer :**--memory 4GB --memory-reservation 2GB

**Which of the following commands can you use on a worker node to remove it from the swarm cluster gracefully?**

Options are :

* *docker swarm leave (Correct)*
* *docker swarm exit*
* *docker node rm worker*
* *docker leave swarm*

**Answer :**docker swarm leave

**Which of the following docker commands can you use to add or update a placement constraint?**

Options are :

* *docker service update --constraint-add (Correct)*
* *docker service update --pref-add*
* *docker service update --placement-pref-add*
* *docker service update --placement-constraint-add*

**Answer :**docker service update --constraint-add

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**Which of the following is false about the docker consensus algorithm, Raft?**

Options are :

* *If a quorum is not reached, the existing tasks will keep running*
* *If a quorum is not reached, the system will not process any more requests to schedule additional tasks*
* *Raft requires a majority or quorum of (N/2) + 1 members*
* *Raft tolerates up to (N-2)/2 failures (Correct)*

**Answer :**Raft tolerates up to (N-2)/2 failures

**Which of the following scenarios will cause a swarm cluster to be in a lost quorum state?**

Options are :

* *1 manager of which 1 is healthy.*
* *4 managers of which 2 are healthy. (Correct)*
* *5 managers of which 3 are healthy.*
* *3 managers of which 2 are healthy.*

**Answer :**4 managers of which 2 are healthy.

**What docker command can you use to add a network to an existing service?**

Options are :

* *docker service set --add-network*
* *docker service add-network*
* *docker service update --network-add (Correct)*
* *docker service modify --add-network*

**Answer :**docker service update --network-add

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**When a container starts, it can be connected to multiple networks using --network. True or false?**

Options are :

* *FALSE (Correct)*
* *TRUE*

**Answer :**FALSE

**Which of the following flags is used to publish containers port(s) on an existing service in the swarm?**

Options are :

* *--publish-add (Correct)*
* *--publish*
* *-p*
* *--publish-all*

**Answer :**--publish-add

**What behavior is expected when a service is created with the following command: docker service create --publish 8080:80 nginx?**

Options are :

* *All nodes in the cluster will listen on port 8080 and forward to port 80 in the container. (Correct)*
* *Only a single node in the cluster will listen on port 80 and forward to port 8080 in the container.*
* *Only a single node in the cluster will listen on port 8080 and forward to port 80 in the container.*
* *All nodes in the cluster will listen on port 80 and forward to port 8080 in the container.*

**Answer :**All nodes in the cluster will listen on port 8080 and forward to port 80 in the container.

[Docker Certified Associate (DCA) Practice Exams Set 15](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-15)

**Which of the following commands configures a Redis container to always restart unless it is explicitly stopped or Docker is restarted?**

Options are :

* *docker run -d --restart unless-stopped redis (Correct)*
* *docker run -d --restart omit-stopped redis*
* *docker run -d --restart-policy unless-stopped redis*
* *docker run -d --failure omit-stopped redis*

**Answer :**docker run -d --restart unless-stopped redis

**What flag can you configure to a service to introduces a delay between tasks, so that the rolling restart happens gradually?**

Options are :

* *--update-pause*
* *--update-delay (Correct)*
* *-update-wait*
* *--wait-delay*

**Answer :**--update-delay

**How can you see the information logged by a running container called "web"?**

Options are :

* *docker log inspect web*
* *docker container logs web (Correct)*
* *docker logs web (Correct)*
* *docker logview web*

**Answer :**docker container logs web docker logs web

**You have received a docker service inspect report that appears to be formatted as one big json. What option can you use in order to clean up the format into something more readable?**

Options are :

* *--readable*
* *--human*
* *--pretty (Correct)*
* *--format="{?{.Structure.To.Review}}"*

**Answer :**--pretty

**Which of the following commands can you use to list the tasks of one or more services in swarm?**

Options are :

* *docker services*
* *docker ps*
* *docker service ls*
* *docker service ps (Correct)*

**Answer :**docker service ps

**Which of the following mechanisms can you use to place services evenly on appropriate nodes in a swarm cluster?**

Options are :

* *Placement Preference (Correct)*
* *Replicated Mode*
* *Placement Constraint*
* *Routing Mesh*

**Answer :**Placement Preference

**What is the limitation of docker service scale command in swarm mode?**

Options are :

* *It can only scale UP the service.*
* *It can only be applied on replicated services. (Correct)*
* *It can only scale one service at a time.*
* *All answers are true.*

**Answer :**It can only be applied on replicated services.

**Which of the following commands can you use to restart a docker container automatically, if the container exits due to an error, which manifests as a non-zero exit code?**

Options are :

* *docker run --restart no nginx*
* *docker run --restart failure-only nginx*
* *docker run --restart unless-stopped nginx*
* *docker run --restart on-failure nginx (Correct)*

**Answer :**docker run --restart on-failure nginx

**What is the docker command to set the number of replicas for a service called "web" to 5?**

Options are :

* *docker service increase web=5*
* *docker service replica web=5*
* *docker service build web=5*
* *docker service scale web=5 (Correct)*

**Answer :**docker service scale web=5

**You want to use a secret as an environment variable in the Pod definition. Where should you place the secret's name and key?**

Options are :

* *None of the answers is correct.*
* *env[].valueFrom.secret*
* *env[].valueFrom.secretKeyRef (Correct)*
* *env[].secret*

**Answer :**env[].valueFrom.secretKeyRef

**Which of the following units of the swarm can instruct a worker node to run a task?**

Options are :

* *Dispatcher*
* *Orchestrator*
* *Allocator*
* *Scheduler (Correct)*

**Answer :**Scheduler

**Which of the following flags is not supported by docker service create command?**

Options are :

* *-v (Correct)*
* *-t*
* *-p*
* *-l*

**Answer :**-v

**Which of the following options allow you to scale an app? (select two)**

Options are :

* *Setting the app to the global mode.*
* *Execute the 'docker stack deploy' command (Correct)*
* *Enable autoscaling*
* *Change the replicas value in the docker-compose.yml file (Correct)*

**Answer :**Execute the 'docker stack deploy' command Change the replicas value in the docker-compose.yml file

**Which of the following commands can you use to exclude the manager node from running the tasks of a service?**

Options are :

* *docker node update drain manager*
* *docker update node --availability drain manager*
* *docker node stop manager*
* *docker node update --availability drain manager (Correct)*

**Answer :**docker node update --availability drain manager

**Chris wants to execute an application job using a Docker container. However, occasionally, this job fails and needs to be restarted. Chris doesn't want to restart it manually if it fails. Which command should he use to make sure that the container restarts automatically?**

Options are :

* *docker run --restart unless-stopped app*
* *docker run --restart on-failure app (Correct)*
* *docker run --recover-failure app*
* *docker run --restart failure-only app*

**Answer :**docker run --restart on-failure app

**What is the docker command to update an existing service?**

Options are :

* *docker service config*
* *docker service modify*
* *docker service update (Correct)*
* *docker service change*

**Answer :**docker service update

**A task is a unidirectional mechanism. True or False?**

Options are :

* *TRUE (Correct)*
* *FALSE*

**Answer :**TRUE

**Which of the following are valid ways to reference a secret from a Pod? (Select all that apply)**

Options are :

* *By the kubelet when pulling images for the Pod. (Correct)*
* *As files in a volume mounted on one or more of its containers. (Correct)*
* *As container environment variable. (Correct)*
* *As ConfigMaps.*

**Answer :**By the kubelet when pulling images for the Pod. As files in a volume mounted on one or more of its containers. As container environment variable.

**Paul has some containerized software that needs to reference the hostname of the node that the software is running on.**

**Which of the following commands can Paul use to pass the hostname, as an environment variable, into each task in a service?**

Options are :

* *docker service create --env NODE\_HOSTNAME="{?{.Node.Hostname}}" nginx (Correct)*
* *docker service create --env NODE\_HOSTNAME="{?{Hostname}}" nginx*
* *docker service create --pass-node-hostname=true nginx*
* *docker service create -e NODE\_HOSTNAME nginx*

**Answer :**docker service create --env NODE\_HOSTNAME="{?{.Node.Hostname}}" nginx

**One of the nodes in your existing cluster is logging errors related to the storage subsystem and it needs to be taken offline. Which command will allow you to gracefully remove the node when executed on the node itself?**

Options are :

* *docker swarm rm*
* *docker swarm leave --gracefully*
* *docker swarm leave (Correct)*
* *docker swarm unregister*

**Answer :**docker swarm leave

**Which of the following commands will ensure that overlay traffic between service tasks is encrypted?**

Options are :

* *docker service create --network --encrypted*
* *docker network create -d overlay --secure*
* *docker service create --network --secure*
* *docker network create -d overlay -o encrypted=true (Correct)*

**Answer :**docker network create -d overlay -o encrypted=true

**Which of the following modes can be used for service discovery of a Docker swarm service ? (Select all that apply)**

Options are :

* *Network Address Translation(NAT) with --endpoint-mode nat*
* *Virtual IP (VIP) with --endpoint-mode vip (Correct)*
* *Ingress with --endpoint-mode ingress*
* *Overlay with --endpoint-mode overlay*
* *DNS Round-Robin with --endpoint-mode dnsrr (Correct)*

**Answer :**Virtual IP (VIP) with --endpoint-mode vip DNS Round-Robin with --endpoint-mode dnsrr

**What is the endpoint that we can use to check the health of a single UCP manager node?**

Options are :

* *https:///\_ping (Correct)*
* *https:///\_health*
* *https:///\_status*
* *https:///\_heartbeat*

**Answer :**https:///\_ping

**What is the docker command to display detailed information on one or more networks?**

Options are :

* *docker network display*
* *docker network inspect (Correct)*
* *docker inspect network*
* *docker network status*

**Answer :**docker network inspect

**What does 'docker image rm' command do?**

Options are :

* *Shows layers of an image*
* *Remove one or more images (Correct)*
* *Remove dangling images*
* *Display detailed information on one or more images*

**Answer :**Remove one or more images

**How do you configure Docker engine to use a registry that is not configured with TLS certificates from a trusted CA?**

Options are :

* *Pass the '--insecure-registry' flag to the daemon at run time. (Correct)*
* *Set and export the IGNORE\_TLS environment variable on the command line.*
* *Set IGNORE\_TLS in the 'daemon.json' configuration file.*
* *Set INSECURE\_REGISTRY in the '/etc/docker/default' configuration file.*

**Answer :**Pass the '--insecure-registry' flag to the daemon at run time.

**What command remove dangling images and all unused images ?**

Options are :

* *docker image prune -a (Correct)*
* *docker image rm -a*
* *docker image prune*
* *docker image rm --all*

**Answer :**docker image prune -a

**Which of the following is correct about the result of the command 'docker run --name=nginx -d -v nginxvol:/var/log/nginx nginx:latest ' ?**

Options are :

* *Starts an nginx container and mounts the volume /var/log/nginx from the container nginx-vol.*
* *Starts an nginx container and mounts the volume nginx-vol from the Docker host and expose host files inside the container at the specified path .*
* *Starts an nginx container and populates the new volume nginx-vol, with the contents of the container�s /var/log/nginx directory, which is where Nginx logs content. (Correct)*
* *Starts an nginx container and populates the new volume nginx-vol, with the contents of the Docker host /var/log/nginx directory, which is where Nginx logs content.*

**Answer :**Starts an nginx container and populates the new volume nginx-vol, with the contents of the container�s /var/log/nginx directory, which is where Nginx logs content.

**Which of the following is required to install Docker EE from a package repository?**

Options are :

* *B. License key obtained from Docker Store*
* *A. License key obtained from Docker Hub*
* *D. Repository URL obtained from Docker Store*
* *C. Repository URL obtained from Docker Hub (Correct)*

**Answer :**C. Repository URL obtained from Docker Hub

**Which of the following commands is used to display system-wide Docker configuration on a host?**

Options are :

* *docker info (Correct)*
* *docker system*
* *docker status*
* *docker config ps*

**Answer :**docker info

**Which statement is true?**

Options are :

* *CMD is used to run the software is the image along with any arguments*
* *ENTRYPOINT cannot be used in conjuction with CMD*
* *CMD shell format uses this form ["param", param", "param"] (Correct)*
* *ENTRYPOINT cannot be overriden in the "docker container run" command*

**Answer :**CMD shell format uses this form ["param", param", "param"]

**What is the docker command to find the current logging driver for a running container?**

Options are :

* *docker info (Correct)*
* *docker status*
* *A. docker status*
* *docker config*

**Answer :**docker info

**You have just executed 'docker swarm leave' on a node. What command can be run on the same node to confirm it has left the cluster?**

Options are :

* *docker system info (Correct)*
* *docker node status*
* *docker node ls*
* *docker system status*

**Answer :**docker system info

**Which network driver type is best when the network stack should not be isolated from the Docker host, but you want other aspects of the container to be isolated?**

Options are :

* *Macvlan networks*
* *Host networks (Correct)*
* *User-defined bridge networks*
* *Overlay Networks*

**Answer :**Host networks

**An image is used to deploy an application to multiple different environments (development, tests and production) , and these environments uses different certificates and network ports. Which of the following would be the best practice to deploy this application ?**

Options are :

* *Create a Dockerfile for each environment, specifying ports and Docker secrets for certificates*
* *Create a Dockerfile for each environment, specifying ports and ENV variables for certificates.*
* *Create a config file for each environment. (Correct)*
* *Create images that contain the specific configuration for every environment.*

**Answer :**Create a config file for each environment.

**Docker Trusted Registry (DTR) has to be installed on UCP. True or False ?**

Options are :

* *True (Correct)*
* *False*

**Answer :**True

**What is the difference between a resource limit and a resource reservation ?**

Options are :

* *A resource limit is a hard limit for your service, while a reservation is hard limit for containers.*
* *A resource limit is a soft limit for your service, while a reservation is hard limit and the docker engine engine will do its best to keep your service at the limit.*
* *A resource limit is hard limit for your service, while a reservation is a soft limit and it is used to find a host with adequate resources for scheduling. (Correct)*
* *There is no difference. A resource limit and a resource reservation can be used for the same purpose.*

**Answer :**A resource limit is hard limit for your service, while a reservation is a soft limit and it is used to find a host with adequate resources for scheduling.

**Which of the following is correct about minimum number of manager nodes to maintain a majority quorum ?**

Options are :

* *A seven-manager Swarm with quorum of four manager nodes availables. (Correct)*
* *A five-manager Swarm with quorum of two manager nodes availables .*
* *A three-manager with quorum of one manager node available .*
* *A nine-manager with quorum of four manager node available .*

**Answer :**A seven-manager Swarm with quorum of four manager nodes availables.

**In the output below, what do the IDs next to the "Pull complete" message indicate?**

1. **$ docker pull redis**
2. **Using default tag: latest**
3. **latest: Pulling from library/redis**
4. **c499e6d256d6: Pull complete**
5. **bf1bc8a5a7e4: Pull complete**
6. **7564fb795604: Pull complete**
7. **ec6e86f783e4: Pull complete**
8. **1371d6223f46: Pull complete**
9. **021fd554320f: Pull complete**
10. **Digest: sha256:a732b1359e338a539c25346a50bf0a501120c41dc248d868e546b33e32bf4fe4**
11. **Status: Downloaded newer image for redis:latest**

Options are :

* *Configuration files download has completed.*
* *Binary image files download has completed.*
* *Image files download has completed.*
* *Image layers download has completed. (Correct)*

**Answer :**Image layers download has completed.

**Which commands will show the image used to create the nginx pods below ?**

1. **$ kubectl get pods**
2. **NAME READY STATUS RESTARTS AGE**
3. **nginx-6d64898d78-2rzzw 1/1 Running 0 7m14s**
4. **nginx-6d64898d78-pmpss 1/1 Running 0 7m14s**
5. **nginx-6d64898d78-pvqtc 1/1 Running 0 7m14s**

Options are :

* *kubectl get pods -o all ;*
* *kubectl get pods -o wide; (Correct)*
* *kubectl describe pods -a*
* *kubectl describe pods nginx (Correct)*
* *kubectl describe pods*

**Answer :**kubectl get pods -o wide; kubectl describe pods nginx

**Why does multi-stage build are useful for developers ?**

Options are :

* *Multistage builds are useful to anyone who has struggled to optimize Dockerfiles while keeping them easy to read and maintain. (Correct)*
* *Multi-stage builds give the benefits of the builder pattern without the hassle of maintaining three separate files (Correct)*
* *It provides better caching when building Docker images*
* *Multistage builds are useful to improve performance of the base image.*

**Answer :**Multistage builds are useful to anyone who has struggled to optimize Dockerfiles while keeping them easy to read and maintain. Multi-stage builds give the benefits of the builder pattern without the hassle of maintaining three separate files

**Services might remain in a pending state in which of the following scenarios? (Select all that apply)**

Options are :

* *If a node is changed from global to replicated mode without set number of replicas.*
* *If all nodes are paused or drained, and you create a service, it is pending until a node becomes available. (Correct)*
* *If placement constraints is imposed on the service, but the constraints may not be able to be honored at a given time. (Correct)*
* *If a specific amount of memory was reserved for a service, and there is no corresponding node in the swarm which has the required amount of memory, then, the service remains in a pending state until a node is available which can run its tasks. (Correct)*

**Answer :**If all nodes are paused or drained, and you create a service, it is pending until a node becomes available. If placement constraints is imposed on the service, but the constraints may not be able to be honored at a given time. If a specific amount of memory was reserved for a service, and there is no corresponding node in the swarm which has the required amount of memory, then, the service remains in a pending state until a node is available which can run its tasks.

**Which handler is used by Kubelet to perform TCP check against the Container's IP address on a specified port ?**

Options are :

* *IPGetAction*
* *IPSocketAction*
* *ExecDocketAction*
* *TCPSocketAction (Correct)*

**Answer :**TCPSocketAction

**Which command is used to see details about the service running in the swarm AND provide the output in easily readable format?**

Options are :

* *docker service inspect --pretty (Correct)*
* *docker service inspect --printformat*
* *docker service inspect*
* *docker service inspect --easyread*

**Answer :**docker service inspect --pretty

**If you want to create a services but prevent it from being deployed you should?**

Options are :

* *Configure it in such a way that it remains in pending*
* *Set flag '--availability' to 'pause'*
* *Scale service to 0 (Correct)*
* *Pass flag '--noschedule' when create a service*

**Answer :**Scale service to 0

**Which of the following are types of namespaces used by Docker ? (Select all that apply)**

Options are :

* *Network (Correct)*
* *Security*
* *IDC*
* *Process ID (Correct)*

**Answer :**Network Process ID

**From whom does the container inherit the default DNS settings?**

Options are :

* *base image*
* *docker host*
* *docker daemon (Correct)*
* *docker registry*

**Answer :**docker daemon

**Which mechanism is used to exclude files and directories from the context that docker CLI uses to create an IMAGE ?**

Options are :

* *.dockerignore file (Correct)*
* *EXCLUDE instruction*
* *IGNORE instruction*
* *.dockerexclude file*

**Answer :**.dockerignore file

**When seven managers are in a swarm cluster how would they be distributed across three datacenters or availability zones?**

Options are :

* *3-3-1*
* *5-1-1*
* *3-2-2 (Correct)*
* *4-2-1*

**Answer :**3-2-2

**Docker security scan can be started only by users who have write access . True or false?**

Options are :

* *False*
* *True (Correct)*

**Answer :**True

**How many free private repositories can a user get with Docker Hub user account?**

Options are :

* *0*
* *1*
* *2*
* *3*

**Answer :**1

**Which of the following actions can you not commit under Docker's Apache 2.0 license?**

Options are :

* *Study the logic and create a parallel product.*
* *Use Docker API in your own product to utilize containerization features*
* *Modify Docker APIs for your research work.*
* *Sell Docker APIs under your product's name without any accreditation to Docker.*

**Answer :**Sell Docker APIs under your product's name without any accreditation to Docker.

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**True or False?**

**Bind mounts can be managed directly by Docker CLI commands.**

Options are :

* *True*
* *False*

**Answer :**False

**What will happen if you use --mount flag to bind-mount container's directory to a directory on Docker host which does not exist yet?**

Options are :

* *Docker will create a new directory on Docker host and backup all the data of mounted container directory.*
* *Docker will create a directory with a warning of security vulnerabilities on Docker host.*
* *Docker won't create any directory on Docker host and generate an error message.*
* *Docker daemon will generate a warning and suggest to use --mount-to flag with directory location on Docker host to create that particular directory.*

**Answer :**Docker won't create any directory on Docker host and generate an error message.

**True or False?**

**With Docker Desktop on Mac, you only get one VM, managed by Docker Desktop.**

Options are :

* *True*
* *False*

**Answer :**True

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**Which of the following Dockerfile options creates a mount point with the specified name and marks it as holding externally mounted volumes from native host or other containers?**

Options are :

* *ONBUILD*
* *WORKDIR*
* *VOLUME*
* *RUN*

**Answer :**VOLUME

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**What Dockerfile option EXPOSE does?**

Options are :

* *Informs Docker that the container listens on the specified network ports at runtime*
* *Label a container that will run as an executable*
* *Expose defaults for an executing container*
* *Adds metadata to an image*

**Answer :**Informs Docker that the container listens on the specified network ports at runtime

**Which of the following commands will automatically create a volume when a container is started?**

Options are :

* *docker container run --name nginxtest --volumes=/app nginx'*
* *docker container run --name nginxtest --volumes myvol:/app:new nginx'*
* *docker container run --name nginxtest -v myvol:/app nginx'*
* *docker container run --name nginxtest -v /app:mount nginx'*

**Answer :**docker container run --name nginxtest --volumes=/app nginx'

**Which command interactively monitors all container activity in the Docker engine?**

Options are :

* *docker container logs*
* *docker system logs*
* *docker system events*
* *docker container events*

**Answer :**docker system events

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**A server is running low on disk space. What command can be used to check the disk usage of images, containers, and volumes for Docker engine?**

Options are :

* *docker system ps'*
* *docker system prune'*
* *docker system df'*
* *docker system free'*

**Answer :**docker system df'

**Which of the following is true about using the '-P' option when creating a new container?**

Options are :

* *Docker gives extended privileges to the container.*
* *Docker binds each exposed container port to a random port on all the host's interface*
* *Docker binds each exposed container port to a random port on a specified host interface*
* *Docker binds each exposed container port with the same port on the host*

**Answer :**Docker binds each exposed container port to a random port on all the host's interface

**An application image runs in multiple environments, and each environment uses different certificates and ports, what is the best practice to deploy the containers?**

Options are :

* *Create a config file for each environment.*
* *Create a Dockerfile for each environment, specifying ports and Docker secrets for certificates.*
* *Create images that contain the specific configuration for every environment.*
* *Create a Dockerfile for each environment, specifying ports and ENV variables for certificates.*

**Answer :**Create a config file for each environment.

[Docker and Containers: Commands Set 3](https://chercher.tech/docker-certification/docker-and-containers-commands-set-3)

**Which of the following are types of namespaces used by Docker to provide isolation? (Choose 2.)**

Options are :

* *Network*
* *Process ID*
* *Storage*
* *Authentication*
* *Host*

**Answer :**Network Process ID

**You have just executed 'docker swarm leave' on a node. What command can be run on the same node to confirm it has left the cluster?**

Options are :

* *docker node status*
* *docker system info*
* *docker system status*
* *docker node ls*

**Answer :**docker system info

**From a DevOps process standpoint, it is best practice to keep changes to an application in version control. Which of the following will allow changes to a docker Image to be stored in a version control system?**

Options are :

* *A docker-compose.yml file*
* *docker save*
* *docker commit*
* *A dockerfile*

**Answer :**docker commit

[Docker and Containers: Commands Set 1](https://chercher.tech/docker-certification/docker-and-containers-commands-set-1)

**Which of the following is the docker command to enable autolock on an existing swarm cluster?**

Options are :

* *docker swarm update --autolock=true*
* *docker swarm autolock*
* *docker swarm --autolock=true*
* *docker swarm update --autolock-swarm=true*

**Answer :**docker swarm update --autolock=true

**When seven managers are in a swarm cluster how would they be distributed across three datacenters or availability zones?**

Options are :

* *3/3/2001*
* *5/1/2001*
* *4/2/2001*
* *3/2/2002*

**Answer :**3/2/2002

**What Dockerfile option LABEL does?**

Options are :

* *Tells Docker how to test a container to check that it is still working*
* *Provide defaults for an executing container*
* *Label a container that will run as an executable*
* *Adds metadata to an image*

**Answer :**Adds metadata to an image

[Docker Certified Associate (DCA) Practice Exams Set 10](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-10)

**What is the difference between a resource limit and a resource reservation when scheduling services?**

Options are :

* *A resource limit and a resource reservation can be used interchangeably.*
* *A resource limit is used to find a host with adequate resources for scheduling a hard limit for your service, while a reservation is hard limit for your service.*
* *A resource limit is hard limit for your service, while a reservation is used to find a host with adequate resources for scheduling.*
* *A resource limit is a soft limit for your service, while a reservation is hard limit and the docker engine will do its best to keep your service at the limit.*

**Answer :**A resource limit is hard limit for your service, while a reservation is used to find a host with adequate resources for scheduling.

**What service mode is used to deploy a single task of a service to each node?**

Options are :

* *spread*
* *universal*
* *replicated*
* *distributed*
* *global*

**Answer :**global

**Which of the following is NOT how to create an efficient image via a Dockerfile?**

Options are :

* *Combine multiple applications into a single container*
* *Start with an appropriate base image*
* *Use multi-stage builds*
* *Avoid installing unnecessary packages*

**Answer :**Combine multiple applications into a single container

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**What is the purpose of a client bundle in the Universal Control Plane?**

Options are :

* *Provide a new user instructions for how to login to the Universal Control Plane*
* *Group multiple users in a team in the Universal Control Plane*
* *Authenticate a user using client certificates to the Universal Control Plane*
* *Provide a user with a Docker client binary compatible with the Universal Control Plane*

**Answer :**Authenticate a user using client certificates to the Universal Control Plane

**Wha is the purpose of Docker Content Trust?**

Options are :

* *Indicating an image on Docker Hub is an official image*
* *Enabling mutual TLS between the Docker client and server*
* *Docker registry TLS verification and encryption*
* *Signing and verification of image tags*

**Answer :**Signing and verification of image tags

**A container named "analytics" that stores results in a volume called "data" was created. docker run -d --name=analytics -v data:/data app1 How are the results accessed in "data" with another container called "app2"?**

Options are :

* *docker run -d --name=reports --volumes-from=analytics app2*
* *docker run -d --name=reports --volume=data app2*
* *docker run -d --name=reports --mount=app1 app2*
* *docker run -d --name=reports --volume=app1 app2*

**Answer :**docker run -d --name=reports --volumes-from=analytics app2

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**Which of the following statements is true about secrets?**

Options are :

* *Secret are stored unencrypted on manager nodes.*
* *Secrets can be created using standard input (STDIN) and a file.*
* *Secrets can be modified after they are created.*
* *Secrets can be created from any node in the cluster.*

**Answer :**Secrets can be created using standard input (STDIN) and a file.

**What is the function of docker inspect command?**

Options are :

* *To return low-level information on Docker objects*
* *To display system-wide information*
* *To inspect changes to files or directories on a container's filesystem*
* *To manage Docker configs*

**Answer :**To return low-level information on Docker objects

**Which of the following constitutes a production-ready devicemapper configuration for the Docker engine?**

Options are :

* *Utilize the '--storage-opt dm.directlvm\_device' Docker daemon option, specifying a block device*
* *Nothing, devicemapper comes ready for production usage out of the box*
* *Create a volume group in devicemapper and utilize the '--dm.thinpooldev' Docker daemon option, specifying the volume group*
* *Format a partition with xfs and mount it at '/var/lib/docker'*

**Answer :**Utilize the '--storage-opt dm.directlvm\_device' Docker daemon option, specifying a block device

[Docker Certified Associate (DCA) Practice Exams Set 2](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-2)

**Which of the following is supported by control groups?**

Options are :

* *Limit CPU usage within a container*
* *Manage certificates*
* *Collect net*
* *Isolate processes in a container*

**Answer :**Limit CPU usage within a container

**Following the principle of least privilege, which of the following methods can be used to securely grant access to the specific user to communicate to a Docker engine? (Choose two.)**

Options are :

* *Utilize the '--host 127.0.0.1:2375' option to the Docker daemon to listen on port 2375 over TCP on localhost*
* *Give the user root access to the server to allow them to run Docker commands as root.*
* *Add the user to the 'docker' group on the server or specify the groue? with the '--group' Docker daemon option.*
* *Utilize openssl to create TLS client and server certificates, configuring the Docker engine to use with mutual TLS over TCP.*
* *Utilize the '--host 0.0.0.0:2375' option to the Docker daemon to listen on port 2375 over TCP on all interfaces*

**Answer :**Add the user to the 'docker' group on the server or specify the groue? with the '--group' Docker daemon option. Utilize openssl to create TLS client and server certificates, configuring the Docker engine to use with mutual TLS over TCP.

**Which of these swarm manager configurations will cause the cluster to be in a lost quorum state?**

Options are :

* *5 managers of which 3 are healthy*
* *1 manager of which 1 is healthy*
* *4 managers of which 2 are healthy*
* *3 managers of which 2 are healthy*

**Answer :**4 managers of which 2 are healthy

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**After creating a new service named 'http', you notice that the new service is not registering as healthy. How do you view the list of historical tasks for that service by using the command line?**

Options are :

* *docker service ps http'*
* *docker service inspect http'*
* *docker inspect http'*
* *docker ps http'*

**Answer :**docker service inspect http'

**Which of the following is true about overlay networks?**

Options are :

* *Overlay networks are created on all cluster nodes when you create the overlay network.*
* *Overlay networks are only created on the manager nodes.*
* *Overlay networks are created only on the manager node that you created the overlay networking on.*
* *Overlay networks are first created on the manager nodes. Then they are created on the worker nodes once a task is scheduled on the specific worker node.*

**Answer :**Overlay networks are first created on the manager nodes. Then they are created on the worker nodes once a task is scheduled on the specific worker node.

**Each container shares common writeable container layer. True or false?**

Options are :

* *FALSE*
* *TRUE*

**Answer :**FALSE

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**In Docker Trusted Registry, how would a user prevent an image, for example 'nginx:latest' from being overwritten by another user with push access to the repository?**

Options are :

* *Remove push access from all other users.*
* *Keep a backup copy of the image on another repository.*
* *Use the DTR web UI to make the tag immutable.*
* *Tag the image with 'nginx:immutable'*

**Answer :**Use the DTR web UI to make the tag immutable.

**Which one of the following commands will result in the volume being removed automatically once the container has exited?**

Options are :

* *docker run --del -v /foo busybox'*
* *docker run --read-only -v /foo busybox'*
* *docker run --remove -v /foo busybox'*
* *docker run --rm -v /foo busybox'*

**Answer :**docker run --rm -v /foo busybox'

**What behavior is expected when a service is created with the following command: 'docker service create --publish 8080:80 nginx'**

Options are :

* *Only a single node in the cluster will listen on port 80 and forward to port 8080 in the container.*
* *All nodes in the cluster will listen on port 8080 and forward to port 80 in the container.*
* *All nodes in the cluster will listen on port 80 and forward to port 8080 in the container.*
* *Only a single node in the cluster will listen on port 8080 and forward to port 80 in the container.*

**Answer :**All nodes in the cluster will listen on port 8080 and forward to port 80 in the container.

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**If installing Docker using devicemapper for storage with the Intent to run production workloads, how should devicemapper be configured?**

Options are :

* *loop-lvm*
* *direct-lvm*
* *aufs-lvm*
* *overlay-lvm*

**Answer :**direct-lvm

**How do you configure Docker engine to use a registry that is not configured with TLS certificates from a trusted CA?**

Options are :

* *Set INSECURE\_REGISTRY in the '/etc/docker/default' configuration file*
* *Pass the '--insecure-registry' flag to the daemon at run time*
* *Set and export the IGNORE\_TLS environment variable on the command line*
* *Set IGNORE\_TLS in the 'daemon.json' configuration file.*

**Answer :**Pass the '--insecure-registry' flag to the daemon at run time

**Which of the following commands starts a Redis container and configures it to always restart unless it is explicitly stopped or Docker is restarted?**

Options are :

* *docker run -d --restart-policy unless-stopped redis'*
* *docker run -d --failure omit-stopped redis'*
* *docker run -d --restart omit-stopped redis'*
* *docker run -d --restart unless-stopped redis'*

**Answer :**docker run -d --restart unless-stopped redis'

[Docker and Containers: Commands Set 4](https://chercher.tech/docker-certification/docker-and-containers-commands-set-4)

**The following health check exists in a Dockerfile: 'HEALTCHECK CMD curl --fail http://localhost/health || exit 1' Which of the following describes its purpose?**

Options are :

* *Defines the health check endpoint on the localhost interface for external monitoring tools to monitor the health of the docker engine.*
* *Defines the health check for the containerized application so that the application health can be monitored by the Docker engine*
* *Defines the action taken when container health fails, which in this case will kill the container with exit status 1*
* *Defines the health check endpoint on the local host interface for containers to monitor the health of the docker engine*

**Answer :**Defines the action taken when container health fails, which in this case will kill the container with exit status 1

**Which of the following modes can be used for service discovery of a Docker swarm service (Pick 2 correct answers)**

Options are :

* *Network Address Translation(NAT) with --endpoint-mode nat*
* *Ingress with --endpoint-mode ingress*
* *Overlay with --endpoint-mode overlay*
* *DNS Round-Robin with --endpoint-mode dnsrr*
* *Virtual IP (VIP) with --endpoint-mode vip*

**Answer :**DNS Round-Robin with --endpoint-mode dnsrr Virtual IP (VIP) with --endpoint-mode vip

**Which of the following is the correct command to tag an image?**

Options are :

* *docker tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]*
* *docker tag image SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]*
* *docker tag TARGET\_IMAGE[:TAG] SOURCE\_IMAGE[:TAG]*
* *docker build tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]*

**Answer :**docker tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**A service 'wordpress' is running using a password string to connect to a non-Dockerized database service. The password string is passed into the 'wordpress' service as a Docker secret. Per security policy, the password on the database was changed. Identity the correct sequence of steps to rotate the secret from the old password to the new password.**

Options are :

* *Create a new docker secret with the new password. Trigger a rolling secret update by using the 'docker secret update' command*
* *Create a new docker secret with the new password. Remove the existing service using 'docker service rm'. Start a new service with the new secret using "--secret="*
* *Create a new docker secret with a new password. Trigger a rolling update of the "wordpress" service, by using "-- secret-rm" & "--secret-add" to remove the old secret and add the updated secret.*
* *Trigger an update to the service by using 'docker service update --secret='*

**Answer :**Create a new docker secret with a new password. Trigger a rolling update of the "wordpress" service, by using "-- secret-rm" & "--secret-add" to remove the old secret and add the updated secret.

**Docker image is built up from a series of layers and each layer represents an instruction in the image's Dockerfile. True or false?**

Options are :

* *TRUE*
* *FALSE*

**Answer :**TRUE

**Which statement is true?**

Options are :

* *CMD is used to run the software is the image along with any arguments*
* *CMD shell format uses this form ["param", param", "param"]*
* *ENTRYPOINT cannot be overriden in the "docker container run" command*
* *ENTRYPOINT cannot be used in conjuction with CMD*

**Answer :**CMD shell format uses this form ["param", param", "param"]

**What is the default value of the delay reset occurrences of a container?**

Options are :

* *100 ms (Correct)*
* *300 ms*
* *1000 ms*
* *400 ms*

**Answer :**100 ms

**Suresh is a DevOps Engineer of K8s Tech Corp. He tried to create a Pod using the following Yaml file called 'nginx-security.yaml' . What result will be shown after he execute 'kubectl apply -f nginx-security.yaml' ?**

1. **apiVersion: v1**
2. **kind: Pod**
3. **metadata:**
4. **name: nginx-sec**
5. **spec:**
6. **containers:**
7. **- name: nginx-sec**
8. **image: nginx:alpine**
9. **securityContext:**
10. **capabilities:**
11. **allow: ["NET\_ADMIN", "SYS\_TIME"]**

Options are :

* *Pod created successfully.*
* *Validating Error. Capabilities section is not defined correctly. (Correct)*
* *Validating Error. Container name cannot be the same name as Pod.*
* *Syntax error. Command incomplete.*

**Answer :**Validating Error. Capabilities section is not defined correctly.

**What command can be used to confirm if a node has left from a Swarm Cluster ?**

Options are :

* *docker system status*
* *docker system info (Correct)*
* *docker node status*
* *docker node ls*

**Answer :**docker system info

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**Which of the following will create and start a container and it will publish port 80 from inside the container as port 8080 on the host ?**

Options are :

* *docker run -t -p 80:8080 apache:alpine*
* *docker run -t -p 8080:80 apache:alpine (Correct)*
* *docker start -t -p 80:80 apache:alpine*
* *docker create -t -p 80:80 apache:alpine*

**Answer :**docker run -t -p 8080:80 apache:alpine

**Which of the following it will commit container’s file changes or settings into a new image ?**

Options are :

* *docker image create*
* *docker image update*
* *docker commit (Correct)*
* *docker image save*

**Answer :**docker commit

**What docker image prune command does?**

Options are :

* *Remove unused images (Correct)*
* *Display detailed information on one or more images*
* *Remove one or more images*
* *Show layers of an image*

**Answer :**Remove unused images

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**Which command is used to force a full stack trace to be logged?**

Options are :

* *sudo trace -SIGUSR1 $(pidof dockerd)*
* *sudo kill -SIGUSR1 $(pidof dockerd) (Correct)*
* *sudo strace $(pidof dockerd)*
* *sudo kill -trace $(pidof dockerd)*

**Answer :**sudo kill -SIGUSR1 $(pidof dockerd)

**Which of the following is true about user-defined overlay networks?**

Options are :

* *Overlay networks are created on all cluster nodes when you create the overlay network.*
* *Overlay networks are first created on the manager nodes. Then they are created on the worker nodes once a task is scheduled on the specific worker node. (Correct)*
* *Overlay networks are created only on the manager node that you created the overlay networking on.*
* *Overlay networks are only created on the manager nodes.*

**Answer :**Overlay networks are first created on the manager nodes. Then they are created on the worker nodes once a task is scheduled on the specific worker node.

**What command is used to get real-time events from the server ?**

Options are :

* *docker system events [OPTIONS] (Correct)*
* *docker system info [OPTIONS]*
* *docker logs [OPTIONS]*
* *docker system logs [OPTIONS]*

**Answer :**docker system events [OPTIONS]

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**An IT administrator needs to get disk space usage information. What command displays information regarding the amount of disk space used by the docker daemon in a more detailed view ?**

Options are :

* *docker system free --pretty*
* *docker system df -v (Correct)*
* *docker system df --pretty*
* *docker volumes ls -v*

**Answer :**docker system df -v

**What is the docker command to create a container with custom DNS server(s)?**

Options are :

* *docker container create --set-dns=IP\_ADDRESS*
* *docker container create --custom-dns=IP\_ADDRESS*
* *docker container create --add-dns=IP\_ADDRESS*
* *docker container create --dns=IP\_ADDRESS (Correct)*

**Answer :**docker container create --dns=IP\_ADDRESS

**Here is a list of all the docker images stored on your docker host. Out of all these images, we want to remove images referencing to the 857c4ab5f029 image tag. Which of the following commands will return a flawless result?**

1. **REPOSITORY TAG IMAGE ID CREATED SIZE**
2. **redis latest 857c4ab5f029 9 months ago 98.2MB**
3. **weaveworks/scope 1.11.4 a082d48f0b39 9 months ago 78.5MB**
4. **ubuntu latest 3556258649b2 9 months ago 64.2MB**
5. **alpine latest b7b28af77ffe 10 months ago 5.58MB**

Options are :

* *docker rmi 857c4ab5f029*
* *docker rmi -f 857c4ab5f029 (Correct)*
* *docker rmi --image 857c4ab5f029*
* *docker image prune 857c4ab5f029*

**Answer :**docker rmi -f 857c4ab5f029

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**Which command is used to live stream a container’s runtime metrics?**

Options are :

* *docker stats (Correct)*
* *docker ps -ef*
* *docker top*
* *docker mon*

**Answer :**docker stats

**Which of the following is correct about the flag '-P' of the command 'docker run'?**

Options are :

* *Set the PID (Process) Namespace mode for the container .*
* *Docker binds each exposed container port to a random port on a specified host interface .*
* *Docker binds each exposed container port to a random port on all the host's interface . (Correct)*
* *Docker binds each exposed container port with the same port on the host .*

**Answer :**Docker binds each exposed container port to a random port on all the host's interface .

**Which of the following Dockerfile instruction creates a mount point with the specified name and marks it as holding externally mounted volumes from native host or other containers?**

Options are :

* *ONBUILD*
* *VOLUME (Correct)*
* *WORKDIR*
* *RUN*

**Answer :**VOLUME

**Which steps below are needed to grant secure access to Docker Daemon to a non-root user ?**

Options are :

* *Create TLS client and server certificates, configure Docker engine to use secure communication TLS over TCP. (Correct)*
* *Execute command 'chmod -R 0755 dockerDirectory/' to grant access to Docker directory.*
* *Add the following line "ExecStart=/usr/bin/dockerd -H fd:// -H tcp://127.0.0.1:2375" to the docker.service configuration file.*
* *Add non-root user to the 'docker' group on the server or specify the group using the flag '--group' Dockerd option. (Correct)*

**Answer :**Create TLS client and server certificates, configure Docker engine to use secure communication TLS over TCP. Add non-root user to the 'docker' group on the server or specify the group using the flag '--group' Dockerd option.

**Which of the following is the command to add a worker node to a Swarm Cluster ?**

Options are :

* *docker swarm add worker*
* *docker swarm join --token (Correct)*
* *docker swarm add --token*
* *docker swarm join worker --token*

**Answer :**docker swarm join --token

**Docker UCP 3.0 used its own role-based access control (RBAC) for Kubernetes clusters. Which of the following methods can be used to create Kubernetes roles ? (Select all that apply)**

Options are :

* *UCP web interface (Correct)*
* *CLI using docker role*
* *CLI using kubectl (Correct)*
* *Kubernetes Web interface*

**Answer :**UCP web interface CLI using kubectl

**Which of the following commands will automatically create a volume when a container is started?**

Options are :

* *docker container run --name nginxtest -v myvol:/app redis*
* *docker container run --name nginxtest --volumes=/app redis (Correct)*
* *docker container run --name nginxtest --volumes myvol:/app:new redis*
* *docker container run --name nginxtest -v /app:mount redis*

**Answer :**docker container run --name nginxtest --volumes=/app redis

**If you bind-mount into a non-empty directory on the container, the directory’s existing contents are obscured by the bind mount. True or False ?**

Options are :

* *True (Correct)*
* *False*

**Answer :**True

**In which of the following networks does port mapping not take effect?**

Options are :

* *macvlan*
* *bridge*
* *host (Correct)*
* *overlay*

**Answer :**host

**John is  a DevOps Engineer of a Technology Company . He is trying to create a deployment using the YAML file displayed below.  He failed 2 times trying to create a Kubernetes deployment. An error message is shown *" Error from server (BadRequest): error when creating "deployment-definition-1.yaml": deployment in version "v1" cannot be handled as a Deployment: no kind "deployment" is registered for version "apps/v1" in scheme "k8s.io/kubernetes/pkg/api/legacyscheme/scheme.go:30".***

**What is the reason for this error?**

1. **apiVersion: apps/v1**
2. **kind: Deployment**
3. **metadata:**
4. **name: nginx-deployment**
5. **spec:**
6. **replicas: 3**
7. **selector:**
8. **matchLabels:**
9. **name: nginx-pod**
10. **template:**
11. **metadata:**
12. **labels:**
13. **name: nginx-pod**
14. **spec:**
15. **containers:**
16. **- name: nginx-container**
17. **image: nginx:alpine**

Options are :

* *The matchLabels is only available for the previous 'Apiversion'.*
* *The 'Pod' template is incomplete, so kubectl cannot perform a Deployment creation correctly.*
* *The value for 'kind' is incorrect. It should be 'Deployment' with a capital 'D'. (Correct)*
* *The ApiVersion is an outdated version. It should be updated to execute this operation.*

**Answer :**The value for 'kind' is incorrect. It should be 'Deployment' with a capital 'D'.

**What does DTR backup not include?**

Options are :

* *Access control to repos and images*
* *Image content and Image blobs (Correct)*
* *Repository metadata*
* *DTR configurations and cluster configurations*

**Answer :**Image content and Image blobs

**Which two modes does Docker provide for delivering messages from the container to the log driver?**

Options are :

* *blocking (Correct)*
* *synchronos*
* *asynchronos*
* *non-blocking (Correct)*

**Answer :**blocking non-blocking

**It is possible to monitor the status of UCP by using the web UI or the CLI. True or false?**

Options are :

* *False.*
* *True (Correct)*

**Answer :**True

**What is the maximum recommended number of managers for a swarm?**

Options are :

* *7 (Correct)*
* *3*
* *5*
* *9*

**Answer :**7

**What did the 1.8 version of Kubernetes introduce?**

Options are :

* *Auto Scaling*
* *Secrets*
* *Deployments*
* *Taints and Tolerations (Correct)*

**Answer :**Taints and Tolerations

**A host machine has four CPUs available and two running containers. The sysadmin would like to assign two CPUs to each container, which one container will use first CPU and third CPU and, as consequence , the another container will use second CPU and fourth CPU . What command has to be executed to apply this configuration?**

Options are :

* *docker run -it --cpuset-cpus="0,2" ubuntu:14.04 /bin/bash (Correct)*
* *docker run -it --cpuset-cpus="1,3" ubuntu:14.04 /bin/bash (Correct)*
* *docker run -it --cpus="0,2" ubuntu:14.04 /bin/bash*
* *docker run -it --cpus="1,3" ubuntu:14.04 /bin/bash*

**Answer :**docker run -it --cpuset-cpus="0,2" ubuntu:14.04 /bin/bash docker run -it --cpuset-cpus="1,3" ubuntu:14.04 /bin/bash

**In Docker Trusted Registry, how would a user prevent an image from being overwritten by another user ?**

Options are :

* *Keep a backup copy of the image on another repository.*
* *Utilize flag --imutable when execute the command 'docker push' to send an image to registry.*
* *Use the DTR web UI to make the tag immutable. (Correct)*
* *Use option 'immutable' when tag an image*

**Answer :**Use the DTR web UI to make the tag immutable.

**Which options below are correct ?**

Options are :

* *There can only be one CMD instruction in a Dockerfile. If you list more than one CMD then only the last CMD will take effect. (Correct)*
* *An ENTRYPOINT allows you to configure a container that will run as an executable. (Correct)*
* *There can only be one ADD instruction in a Dockerfile. If you list more than one ADD then only the last ADD will take effect.*
* *The WORKDIR instruction can be used only one time in a Dockerfile.*

**Answer :**There can only be one CMD instruction in a Dockerfile. If you list more than one CMD then only the last CMD will take effect. An ENTRYPOINT allows you to configure a container that will run as an executable.

**Setting a node to DRAIN also removes standalone containers from that node, and thus freeing it up completely.**

Options are :

* *True*
* *False (Correct)*

**Answer :**False

**What is the default format of the output of the docker inspect command?**

Options are :

* *yaml*
* *html*
* *xml*
* *json (Correct)*

**Answer :**json

**You need to host your organization's event blog using WordPress and a MySQL database on a 25 swarm nodes cluster. You need to make sure that only one task of MySQL database service is deployed on each active node in the swarm cluster. Which of the following commands will achieve your goal?**

Options are :

* *docker service create --name mySQL --config global mysql*
* *docker service create --name mySQL --mode global mysql (Correct)*
* *docker service create --name mySQL --replicas=25 mysql*
* *docker service create --name mySQL --global mysql*

**Answer :**docker service create --name mySQL --mode global mysql

**You have deployed a service to swarm. Using the Docker CLI how can you set the number of tasks of this services to 5? (Choose 2)**

Options are :

* *docker replica update =5*
* *docker service replicas =5*
* *docker service scale = 5 (Correct)*
* *docker update service =5*
* *docker service update --replicas=5 (Correct)*

**Answer :**docker service scale = 5 docker service update --replicas=5

**A \_\_\_\_ is an instance of the Docker engine that participates in the swarm.**

Options are :

* *Container*
* *Server*
* *Service*
* *Node (Correct)*

**Answer :**Node

**You can apply restart policies using the --restart flag only to containers and not swarm services.**

Options are :

* *FALSE*
* *TRUE (Correct)*

**Answer :**TRUE

**What docker command can you use to add or update a node label?**

Options are :

* *docker node update --set-label*
* *docker node modify --set-label*
* *docker node add --label*
* *docker node update --label-add (Correct)*

**Answer :**docker node update --label-add

**What is the recommended mechanism to deploy containerized applications in Kubernetes?**

Options are :

* *None of the answers.*
* *ReplicaSets*
* *Pods*
* *Deployments (Correct)*

**Answer :**Deployments

**The higher the number of managers in a swarm cluster, the better performance, and scalability. True or false?**

Options are :

* *TRUE*
* *FALSE (Correct)*

**Answer :**FALSE

**Which docker command can you use to set up a swarm?**

Options are :

* *docker create swarm*
* *docker swarm create*
* *docker init swarm*
* *docker swarm init (Correct)*

**Answer :**docker swarm init

**A \_\_\_\_ is a group of one or more containers (such as Docker or Mesos containers), with shared storage/network, and a specification for how to run the containers.**

Options are :

* *DaemonSet*
* *Pod (Correct)*
* *Deployment*
* *StatefulSet*

**Answer :**Pod

**You have just executed docker swarm leave on a node. What command can you run on the same node to confirm it has left the cluster?**

Options are :

* *docker node status*
* *docker node inspect self (Correct)*
* *docker node ls*
* *docker system status*

**Answer :**docker node inspect self

**What service mode should you use to deploy a single task of a service to each and every node?**

Options are :

* *Spread*
* *Global (Correct)*
* *Distributed*
* *Universal*
* *Replicated*

**Answer :**Global

**Recent problems with the service called 'my\_api' in your cluster have caused your development team to request its removal from the cluster while they address the problems. Which command do you need to execute to remove the service?**

Options are :

* *docker swarm remove my\_api*
* *docker rm my\_api*
* *docker service rm my\_api (Correct)*
* *docker swarm --remove=my\_api*

**Answer :**docker service rm my\_api

**Which of the following statements about swarm services is false?**

Options are :

* *Services are scalable groups of containers.*
* *An HTTP server is an example of a service.*
* *A single service runs only one single docker image.*
* *Services are blocks that are run in a centralized environment. (Correct)*

**Answer :**Services are blocks that are run in a centralized environment.

**Which of the following mechanisms can you use to configure services to run only on nodes with a specific metadata set?**

Options are :

* *Routing Mesh*
* *Control groups*
* *Placement Constraints (Correct)*
* *Placement Preference*

**Answer :**Placement Constraints

**When querying the configuration of a running container called 'webApp', which command would display the container's IP Address?**

Options are :

* *docker webApp inspect | grep IP*
* *docker run inspect webApp | grep IP*
* *docker inspect webApp | grep IPAddress (Correct)*
* *None of the answers is correct*

**Answer :**docker inspect webApp | grep IPAddress

**By default, a container has no resource constraints and can use as much of a given resource as the host`s kernel scheduler allows.**

Options are :

* *TRUE (Correct)*
* *FALSE*

**Answer :**TRUE

**Containers on user-defined bridge network can communicate only via IP addresses. True or False?**

Options are :

* *TRUE*
* *FALSE (Correct)*

**Answer :**FALSE

**Which of the following commands will provide a list of all Docker networks together with their drivers currently configured on the Docker host?**

Options are :

* *docker system --list-networks*
* *docker info --networks*
* *docker network ls (Correct)*
* *docker system inspect networks*

**Answer :**docker network ls

**Publishing a port for a service using the routing mesh makes the service accessible at the published port on every swarm node. True or false?**

Options are :

* *FALSE*
* *TRUE (Correct)*

**Answer :**TRUE

**When creating a docker container called 'web' that is running an Apache Web Server on port 80, you can allow direct access to the container service via the host's IP by redirecting the host port 80 to the container port 80. Which command will accomplish this?**

Options are :

* *docker run -d --name myweb -P 80 httpd:latest*
* *None of the answers is correct.*
* *docker run --name myweb -P 80/80 httpd/latest*
* *docker run -d --name myweb -p 80:80 httpd:latest (Correct)*

**Answer :**docker run -d --name myweb -p 80:80 httpd:latest

**Which of the following is not a component of The Container Network Model?**

Options are :

* *Network Controller*
* *Router (Correct)*
* *Sandbox*
* *End-point*

**Answer :**Router

**Which of the following network construct aim to provide isolation for a container?**

Options are :

* *Endpoint*
* *Routing mesh*
* *IPAM Driver*
* *Sandbox (Correct)*

**Answer :**Sandbox

**Which of the following commands can you use to set a DNS server for all Docker containers?**

Options are :

* *dockerd --dns-update IP\_ADDRESS*
* *dockerd --set-dns IP\_ADDRESS*
* *dockerd --dns IP\_ADDRESS (Correct)*
* *dockerd --dns-server IP\_ADDRESS*

**Answer :**dockerd --dns IP\_ADDRESS

**Which type of network driver is best when you need containers running on different Docker hosts to communicate, or when multiple applications work together using swarm services?**

Options are :

* *Overlay networks (Correct)*
* *User-defined bridge networks*
* *Macvlan networks*
* *Host networks*

**Answer :**Overlay networks

**Which of the following modes can be used for service discovery of a Docker swarm service (select 2 correct answers)?**

Options are :

* *Overlay with --endpoint-mode overlay*
* *Ingress with --endpoint-mode ingress*
* *Virtual IP (VIP) with --endpoint-mode vip (Correct)*
* *Network Address Translation(NAT) with --endpoint-mode nat*
* *DNS Round-Robin with --endpoint-mode dnsrr (Correct)*

**Answer :**Virtual IP (VIP) with --endpoint-mode vip DNS Round-Robin with --endpoint-mode dnsrr

**Which of the following commands can you use to create an overlay network for standalone containers?**

Options are :

* *docker network create --ingress my-network*
* *docker network create -d overlay --attachable my-network (Correct)*
* *docker swarm create -d overlay my-network*
* *docker network create -d overlay my-network*

**Answer :**docker network create -d overlay --attachable my-network

**Which docker command can be used to find all the ports mapped? (select all that apply).**

Options are :

* *docker ps (Correct)*
* *docker inspect (Correct)*
* *docker network ls*
* *docker port (Correct)*

**Answer :**docker ps docker inspect docker port

**Which are the primary modes that Kubernetes uses to provide service discovery? (select two)**

Options are :

* *Environment Variables (Correct)*
* *Interlock*
* *DNS (Correct)*
* *Routing mesh*

**Answer :**Environment Variables DNS

**A docker service 'web' is running with a scale factor of 1 (replicas = 1). Bob intends to use the command 'docker service update --replicas=3 web'. Alice intends to use the command 'docker service scale web=3'. How do the outcomes oft these two commands differ?**

Options are :

* *Both Bob's and Alice's commands result in exactly the same outcome, which is 3 instances of the 'web' service.*
* *Bob's command updates the number of replicas of the 'web' service to 3. Alice's command results in an error.*
* *Bob's command only updates the service definition, but no new replicas are started. Alice's command results in the actual scaling up of the 'web' service.*
* *Bob's command results in an error. Alice's command updates the number of replicas of the 'web' service to 3.*

**Answer :**Both Bob's and Alice's commands result in exactly the same outcome, which is 3 instances of the 'web' service.

**A user is having problems running Docker. Which of the following will start Docker in debug mode?**

Options are :

* *Start the 'dockerd' process manually with the '--logging' flag set to debug*
* *Start the 'dockerd' process manually with the '--raw-logs' flag set to debug*
* *Set the debug key to true in the 'daemon.json' file.*
* *Set the logging key to debug in the 'daemon.json' file.*

**Answer :**Set the debug key to true in the 'daemon.json' file.

**Dockerfile option EXPOSE publish the port to external systems. True or false?**

Options are :

* *FALSE*
* *TRUE*

**Answer :**FALSE

[Docker Certified Associate (DCA) Practice Exams Set 8](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-8)

**Which statement is true about DTR garbage collection?**

Options are :

* *Garbage collection removes unused volumes from cluster nodes*
* *Garbage collection removes exited containers from cluster nodes.*
* *Garbage collection removes unreferenced image layers from DTR's backend storage.*
* *Garbage collection removes DTR images that are older than a configurable of days*

**Answer :**Garbage collection removes unreferenced image layers from DTR's backend storage.

**Which of the following is required to install Docker EE from a package repository?**

Options are :

* *License key obtained from Docker Hub*
* *License key obtained from Docker Store*
* *Repository URL obtained from Docker Hub*
* *Repository URL obtained from Docker Store*

**Answer :**Repository URL obtained from Docker Store

**Which flag for a service would allow a container to consume more than 2 GB of memory only when there is no memory contention but would also prevent a container from consuming more than 4GB of memory, in any case?**

Options are :

* *--limit-memory 2GB --reserve-memory 4GB*
* *--memory-swap 4GB --limit-memory 2GB*
* *--memory-swap 2GB --limit-memory 4GB*
* *--limit-memory 4GB --reserve-memory 2GB*

**Answer :**--limit-memory 4GB --reserve-memory 2GB

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**What is the recommended way to configure the daemon flags and environment variables for your Docker daemon in a platform independent way?**

Options are :

* *Set the configuration DOCKER\_OPTS in '/etc/default/docker'*
* *Set the configuration options in '/etc/docker/daemon.json'*
* *Using 'docker config' to set the configuration options.*
* *Set the configuration options using the ENV variable*

**Answer :**Set the configuration options in '/etc/docker/daemon.json'

**You can monitor the status of UCP by using the web UI or the CLI. True or false?**

Options are :

* *FALSE*
* *TRUE*

**Answer :**TRUE

**Which of the following is the correct command to store an image to a registry?**

Options are :

* *docker commit [OPTIONS] NAME[:TAG]*
* *docker store [OPTIONS] NAME[:TAG]*
* *docker push [OPTIONS] NAME[:TAG]*
* *docker upload [OPTIONS] NAME[:TAG]*

**Answer :**docker push [OPTIONS] NAME[:TAG]

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**Which of the following is NOT a valid way to tag a Docker image?**

Options are :

* *Tag an image referenced by image ID*
* *Tag an image referenced by Name*
* *Tag an image referenced by Name and Tag*
* *Tag an image referenced by user ID*

**Answer :**Tag an image referenced by user ID

**What is the default format of docker inspect output?**

Options are :

* *xml*
* *html*
* *yaml*
* *json*

**Answer :**json

**Which set of commands can identify the publishd port(s) for a container? (Choose 1.)**

Options are :

* *docker info','docker network inspect'*
* *docker port inspect', 'docker container inspect'*
* *docker network inspect','docker port'*
* *docker container inspect', docker port'*

**Answer :**docker container inspect', docker port'

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Which of the following is NOT backed up when performing a Docker Trusted backup operation?**

Options are :

* *Access control to repos and images*
* *DTR configurations*
* *Image blobs*
* *Repository metadata*

**Answer :**Image blobs

**What is the difference between the ADD and COPY dockerfile instructions? (choosen 2)**

Options are :

* *ADD supports regular expression handling while COPY does not.*
* *ADD supports compression format handling while COPY does not.*
* *ADD support remote URL handling while COPY does not.*
* *COPY supports compression format handling while ADD does not.*
* *COPY supports regular expression handling while ADD does not.*

**Answer :**ADD supports compression format handling while COPY does not. ADD support remote URL handling while COPY does not.

**What is one way of directly transferring a Docker Image from one Docker host in another?**

Options are :

* *docker save' the image to save it as TAR file and copy it over to the target host. Then use 'docker load' to un-TAR the image back as a Docker image.*
* *There is no way of directly transferring Docker images between hosts. A Docker Registry must be used ad an intermediary.*
* *docker commit' to save the image outside of the Docker filesystem. Then transfer the file over to the target host and 'docker start' to start the container again.*
* *docker push' the image to the IP address of the target host.*

**Answer :**docker save' the image to save it as TAR file and copy it over to the target host. Then use 'docker load' to un-TAR the image back as a Docker image.

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**Which of the following statements is incorrect?**

Options are :

* *The column 'size' of docker ps -s output shows the amount of data that is used for the writable layer of each container.*
* *The column 'virtual size' of docker ps -s output shows the amount of data used for the read-only image data used by the container plus the container's writable layer 'size'.*
* *When a container is deleted, the writable layer is persisted.*
* *Copy-on-write is a Docker strategy of sharing and copying files for maximum efficiency.*

**Answer :**When a container is deleted, the writable layer is persisted.

**What is the image storage solution that is part of Docker Enterprise Edition called?**

Options are :

* *Docker Trusted Registry*
* *Universal Control Plane*
* *Docker Hub*
* *Docker Registry*

**Answer :**Docker Trusted Registry

**What is the docker command to remove one or more images?**

Options are :

* *docker image rm*
* *docker image delete*
* *docker delete*
* *docker remove*

**Answer :**docker image rm

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**When using the Docker client to push an image to a registry, what environment variable is used to instruct the client to perform signing of the image?**

Options are :

* *NOTARY\_ENABLE=1*
* *DOCKER\_PUSH\_SIGN=1*
* *DOCKER\_IMAGE\_SIGN=1*
* *DOCKER\_CONTENT\_TRUST=1*

**Answer :**DOCKER\_CONTENT\_TRUST=1

**What is the docker command for displaying layers of a Docker image?**

Options are :

* *docker info*
* *docker layers*
* *docker image layers*
* *docker history*

**Answer :**docker history

**What is used by the kernel to Isolate resources when running Docker containers?**

Options are :

* *Namespaces*
* *Overlay networks*
* *Volumes*
* *Control groups (also know as cgroups)*

**Answer :**Control groups (also know as cgroups)

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Which of the following docker image commands display detailed information on one or more images?**

Options are :

* *docker image detail*
* *docker image history*
* *docker image inspect?*
* *docker image ls*

**Answer :**docker image inspect?

**Which of the Dockerfile options executes any commands in a new layer on top of the current image and commit the results?**

Options are :

* *ONBUILD*
* *CMD*
* *RUN*
* *FROM*

**Answer :**RUN

**What is the docker command to pull an image or a repository from a registry?**

Options are :

* *docker deploy*
* *docker build*
* *docker checkout*
* *docker pull*

**Answer :**docker pull

[Docker Certified Associate (DCA) Practice Exams Set 10](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-10)

**Docker security scan can be started by all users including those with read-only access. True or false?**

Options are :

* *FALSE*
* *TRUE*

**Answer :**FALSE

**Which of the Dockerfile options initializes a new build stage and sets the base image for subsequent instructions?**

Options are :

* *RUN*
* *ONBUILD*
* *FROM*
* *CMD*

**Answer :**FROM

[Docker Certified Associate (DCA) Practice Exams Set 15](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-15)

**From a DevOps process standpoint, it is best practice to keep changes to an application in version control. Which of the following will allow changes to a docker Image to be stored in a version control system?**

Options are :

* *A docker-compose.yaml file*
* *A docker file*
* *docker save*
* *docker commit*

**Answer :**docker commit

**What is the correct order to upgrade a Docker cluster?**

Options are :

* *Upgrade UCP, DTR, then engine and kernel*
* *Upgrade engine and kernel, UCP, and then DTR*
* *Upgrade engine and kernel, DTR, and then UCP*
* *Upgrade DTR, UCP, then engine and kernel*

**Answer :**Upgrade engine and kernel, UCP, and then DTR

**What is the docker command to roll back to the previous version of a service?**

Options are :

* *docker service --rollback*
* *docker service update --rollback*
* *docker service --rollback-version*
* *docker service update --rollback-version*

**Answer :**docker service update --rollback

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**What is the docker command to update an existing service?**

Options are :

* *docker service change*
* *docker service modify*
* *docker service update*
* *docker service config*

**Answer :**docker service update

**You have created a Docker bridge network on a host with three containers attached, how do you make this containers accessible outside of the host?**

Options are :

* *Use --link to access the containers on the bridge network*
* *Use network connect to access the containers on the bridge network*
* *Use network attach to access the containers on the bridge network.*
* *Use either EXPOSE or --publish to access the containers on the bridge network*

**Answer :**Use either EXPOSE or --publish to access the containers on the bridge network

**Which of the following is true about using the '-P' option when creating a new container?**

Options are :

* *Docker binds each exposed container port with the same port on the host.*
* *Docker binds each exposed container port to a random port on a specified host interface.*
* *Docker binds each exposed container port to a random port on all the host's interface.*
* *Docker gives extended privileges to the container.*

**Answer :**Docker binds each exposed container port to a random port on all the host's interface.

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**Which of the following commands will automatically create a volume when a container is started?**

Options are :

* *'docker container run --name nginxtest -v myvol:/app nginx'*
* *'docker container run --name nginxtest -v /app:mount nginx'*
* *'docker container run --name nginxtest --volumes myvol:/app:new nginx'*
* *'docker container run --name nginxtest --volumes=/app nginx'*

**Answer :**'docker container run --name nginxtest -v myvol:/app nginx'

**Which one of the following commands will show a list of volumes for a specific container?**

Options are :

* *'docker volume logs nginx --containers'*
* *'docker container logs nginx --volumes'*
* *'docker container inspect nginx'*
* *'docker volume inspect nginx'*

**Answer :**'docker container inspect nginx'

**What is the docker command to add a node to a swarm?**

Options are :

* *docker join swarm*
* *docker swarm add-node*
* *docker swarm join*
* *docker swarm create-node*

**Answer :**docker swarm join

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**What is the docker command to add or update a placement constraint?**

Options are :

* *docker service update --pref-add*
* *docker service update --placement-pref-add*
* *docker service update --placement-constraint-add*
* *docker service update --constraint-add*

**Answer :**docker service update --constraint-add

**What Dockerfile option EXPOSE does?**

Options are :

* *Expose defaults for an executing container*
* *Informs Docker that the container listens on the specified network ports at runtime*
* *Adds metadata to an image*
* *Label a container that will run as an executable*

**Answer :**Informs Docker that the container listens on the specified network ports at runtime

**The output of which command can be used to find the architecture and operating system an image is compatible with?**

Options are :

* *docker image inspect --format {{.Architecture}} {{.OS}} '*
* *docker image inspect --filter {{.Architecture}} {{.OS}} '*
* *docker image ls*
* *docker image info*

**Answer :**docker image inspect --format {{.Architecture}} {{.OS}} '

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**What is the docker command to see the storage driver Docker is currently using?**

Options are :

* *docker config*
* *docker status*
* *docker info*
* *docker inspect*

**Answer :**docker info

**You have deployed a service to swarm. Which command uses the Docker CLI to set the number of tasks of the services to 5? (Choose 2)**

Options are :

* *'docker service replicas =5'*
* *docker update service =5'*
* *'docker replica update =5'*
* *docker service update --replicas=5 '*
* *docker service scale = 5''*

**Answer :**docker service update --replicas=5 ' docker service scale = 5''

**What is the docker command to add a network to a service?**

Options are :

* *docker service set --add-network*
* *docker service modify --add-network*
* *docker service update --network-add*
* *docker service add-network*

**Answer :**docker service update --network-add

[Docker and Containers: Commands Set 3](https://chercher.tech/docker-certification/docker-and-containers-commands-set-3)

**A server is running low on disk space. What command can be used to check the disk usage of images, containers, and volumes for Docker engine?**

Options are :

* *'docker system ps'*
* *'docker system df'*
* *'docker system prune'*
* *'docker system free'*

**Answer :**'docker system df'

**What is the docker command to add or update a mount on a service?**

Options are :

* *docker service set --add-update-mount*
* *docker service --mount-volume*
* *docker service --add-update-mount*
* *docker service update --mount-add*

**Answer :**docker service update --mount-add

**Which network driver type is best when the network stack should not be isolated from the Docker host, but you want other aspects of the container to be isolated?**

Options are :

* *User-defined bridge networks*
* *Macvlan networks*
* *Host networks*
* *Overlay networks*

**Answer :**Host networks

[Docker Certified Associate (DCA) Practice Exams Set 8](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-8)

**What is the purpose of multi-stage builds?**

Options are :

* *Better logical separation of Dockerfile instructions for better readability*
* *Optimizing images by copying artifacts selectively from previous stages*
* *Better caching when building Docker images*
* *Faster image builds by allowing parallel execution of Docker builds*

**Answer :**Optimizing images by copying artifacts selectively from previous stages

**Which of the following is true about DTR garbage collection?**

Options are :

* *DTR garbage collection automatically delete unused image layers, thus saving you disk space. (Correct)*
* *DTR Garbage collection removes DTR images that are expired.*
* *DTR garbage collection removes unreferenced image layers from DTR's backend storage. (Correct)*
* *DTR Garbage collection removes duplicated images.*

**Answer :**DTR garbage collection automatically delete unused image layers, thus saving you disk space. DTR garbage collection removes unreferenced image layers from DTR's backend storage.

**It is possible to take a backup while the manager is running (a “hot” backup), but this is not recommended and your results are less predictable when restoring. True or False ?**

Options are :

* *True (Correct)*
* *False*

**Answer :**True

**By default Docker Swarm uses which default address pool?**

Options are :

* *10.0.0.0/8 (Correct)*
* *10.0.0.0/16*
* *192.168.0.0/16*
* *172.16.0.0/12*

**Answer :**10.0.0.0/8

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**Which of the following filesystem changes *(in a file or directory)* are tracked with docker diff command?**

Options are :

* *A file or directory was changed. (Correct)*
* *A file or directory was renamed.*
* *A file or directory was added. (Correct)*
* *A file or directory was disabled.*

**Answer :**A file or directory was changed. A file or directory was added.

**What command list port mappings or a specific mapping for the container ?**

Options are :

* *docker port (Correct)*
* *docker container network ls*
* *docker network inspect*
* *docker info*

**Answer :**docker port

**FROM can only appear once in a single dockerfile. True or False ?**

Options are :

* *True*
* *False (Correct)*

**Answer :**False

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**Each container has its own writable container layer, it means that multiple containers can share access to the same underlying image and yet have their own data state. True or False ?**

Options are :

* *True (Correct)*
* *False*

**Answer :**True

**The following PVC Kubernetes object was used by a DevOps Engineer to create a volume claim. In the 'spec' section, it was defined the value 'ReadWriteOnce' for AccessModes. Which means that  the volume can be mounted as read-write by a single Kubernetes user. True or False ?**

1. **apiVersion: v1**
2. **kind: PersistentVolumeClaim**
3. **metadata:**
4. **name: task-pv-claim**
5. **spec:**
6. **storageClassName: manual**
7. **accessModes:**
8. **- ReadWriteOnce**
9. **resources:**
10. **requests:**
11. **storage: 3Gi**

Options are :

* *False (Correct)*
* *True*

**Answer :**False

**What is the main purpose to use Docker Content Trust?**

Options are :

* *Indicating an image on Docker Hub is an official image*
* *Through Docker Content Trust , image publishers can sign their images and image consumers can ensure that the images they pull are signed. (Correct)*
* *Enable TLS verification and encryption on Docker Hub*
* *Ensure secure communication between the Docker client and server*

**Answer :**Through Docker Content Trust , image publishers can sign their images and image consumers can ensure that the images they pull are signed.

[Docker and Containers: Commands Set 1](https://chercher.tech/docker-certification/docker-and-containers-commands-set-1)

**What is the docker command to add or update a placement constraint?**

Options are :

* *docker service update --constraint-add (Correct)*
* *docker service update --placement-pref-add*
* *docker service update --pref-add*
* *docker service update --placement-constraint-add*

**Answer :**docker service update --constraint-add

**Which of the followings are Docker Engine Security features? (select all that apply)**

Options are :

* *You can protect the Docker daemon socket and ensure only trusted docker client connection. (Correct)*
* *You can configure Docker's trust features so that your users can push and pull trusted images. (Correct)*
* *You can use certificate-based client server authentication to verify a docker deamon has the rights to access image on registry. (Correct)*
* *You can configure secure computing mode (Seccomp) policies to secure system calls in container (Correct)*

**Answer :**You can protect the Docker daemon socket and ensure only trusted docker client connection. You can configure Docker's trust features so that your users can push and pull trusted images. You can use certificate-based client server authentication to verify a docker deamon has the rights to access image on registry. You can configure secure computing mode (Seccomp) policies to secure system calls in container

**Which of the following commands starts a Redis container and configures it to always restart unless it is explicitly stopped or Docker is restarted?**

Options are :

* *docker run -d --failure omit-stopped redis'*
* *docker run -d --restart unless-stopped redis' (Correct)*
* *docker run -d --restart-policy unless-stopped redis'*
* *docker run -d --restart omit-stopped redis'*

**Answer :**docker run -d --restart unless-stopped redis'

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**Dean is a Sysadmin of a Telecom Company. He is learning about Kubernetes imperative commands. Development team requested to create redis Pods in the 'Development' namespace, using 'redis:alpine' image and  a label defined as 'front=db'. Which options below does Dean can use to perform this task?**

Options are :

* *kubectl run -n Development redis --image=redis-alpine -l front=db (Correct)*
* *kubectl run --namespace=Development redis1 --image=redis:alpine -l front=db (Correct)*
* *kubectl create --namespace=Development redis1 --image=redis:alpine -l front=db*
* *kubectl run -namespace Development redis --image redis-alpine -l front=db*

**Answer :**kubectl run -n Development redis --image=redis-alpine -l front=db kubectl run --namespace=Development redis1 --image=redis:alpine -l front=db

**Which of the following networks is responsible for communication between DTR components running on different nodes?**

Options are :

* *dtr-host*
* *dtr-ol (Correct)*
* *dtr-macvlan*
* *dtr-br*

**Answer :**dtr-ol

**Which of the following are valid values of the --restart flag for docker run?**

Options are :

* *on-error*
* *on-failure (Correct)*
* *always (Correct)*
* *no (Correct)*
* *unless-stopped (Correct)*
* *never*

**Answer :**on-failure always no unless-stopped

**Macvlan networks can be created in which of the following modes?**

Options are :

* *Direct mode*
* *Bridge mode (Correct)*
* *802.1q trunk bridge mode (Correct)*
* *Promiscuous mode*

**Answer :**Bridge mode 802.1q trunk bridge mode

**Which options below is correct about how to enable autolock when start a Swarm cluster ?**

Options are :

* *docker swarm init --autolock=true (Correct)*
* *docker swarm --autolock=true*
* *docker swarm init autolock*
* *docker swarm create init --autolock=true*

**Answer :**docker swarm init --autolock=true

**Which of the following specifies that the service should only be scheduled on a node with 4GB of memory available to reserve ?**

Options are :

* *docker service create --limit-quota=4GB --name=web nginx:alpine*
* *docker service create --reserve-quota=4GB --name=web nginx:alpine*
* *docker service create --limit-memory=4GB --name=web nginx:alpine*
* *docker service create --reserve-memory=4GB --name=web nginx:alpine (Correct)*

**Answer :**docker service create --reserve-memory=4GB --name=web nginx:alpine

**Which of the following networks is used as the default network for Kubernetes by Universal Control Plane?**

Options are :

* *Flannel*
* *Weave net*
* *Cilium*
* *Calico (Correct)*

**Answer :**Calico

**What is the difference between the ADD and COPY dockerfile instructions? (Select all that apply)**

Options are :

* *COPY only supports the basic copying of local files into the container. (Correct)*
* *ADD supports compression format handling while COPY does not. (Correct)*
* *ADD allows to be a remote URL (Correct)*
* *COPY supports regular expression handling while ADD does not.*

**Answer :**COPY only supports the basic copying of local files into the container. ADD supports compression format handling while COPY does not. ADD allows to be a remote URL

**What is the enterprise-grade image storage solution from Docker ?**

Options are :

* *Docker Hub*
* *Universal Control Plane*
* *Docker Cloud*
* *Docker Trusted Registry (DTR) (Correct)*

**Answer :**Docker Trusted Registry (DTR)

**What command can be used to remove one or more images ?**

Options are :

* *docker image rm [OPTIONS] IMAGE (Correct)*
* *docker image delete [OPTIONS] IMAGE*
* *docker remove [OPTIONS] IMAGE*
* *docker prune [OPTIONS] IMAGE*

**Answer :**docker image rm [OPTIONS] IMAGE

**Which command can be used in order to create an overlay network ?**

Options are :

* *docker network 'network name' create -d overlay*
* *docker make overlay network 'network name'*
* *docker network create 'network name'*
* *docker network create -d overlay 'network name' (Correct)*

**Answer :**docker network create -d overlay 'network name'

**In a Kubernetes environment, by default multiple volumes can be associated with a single Pod. True or False ?**

Options are :

* *False*
* *True (Correct)*

**Answer :**True

**A new volume was dynamically provisioned when SysAdmin created a PVC based on the following snippet:**

1. **apiVersion: storage.k8s.io/v1**
2. **kind: StorageClass**
3. **metadata:**
4. **name: App-vol-default**
5. **provisioner: kubernetes.io/glusterfs**
6. **parameters:**
7. **resturl: "http://192.168.10.100:8080"**
8. **restuser: ""**
9. **secretNamespace: ""**
10. **secretName: ""**
11. **allowVolumeExpansion: true**

**After 60 days, the volume is full , by this way, SysAdmin can increase the size of the volume if he needs. True or False ?**

Options are :

* *False*
* *True (Correct)*

**Answer :**True

**How to perform UCP backup using CLI ?**

Options are :

* *Execute command 'docker backup --ucp-manager --version 3.2.6*
* *Execute command 'docker/ucp:3.2.6 save'*
* *Execute command 'docker/ucp:3.2.6 backup' . (Correct)*
* *Execute command 'Docker save --ucp-manager --version 3.2.6'.*

**Answer :**Execute command 'docker/ucp:3.2.6 backup' .

**The EXPOSE instruction informs Docker that the container listens on the specified network ports at runtime, but, the EXPOSE instruction does not actually publish the port. True or False ?**

Options are :

* *False*
* *True (Correct)*

**Answer :**True

**Enabling a insecure Registry can be useful when running a local registry. That way, in order to communicate with a insecure registry, which of the following options will be required to perform this operation ?**

Options are :

* *Set and export the IGNORE\_TLS environment variable on the command line*
* *Set INSECURE\_REGISTRY in the '/etc/docker/default' configuration file*
* *Utilize dockerd flag '--insecure-registry' at the run time. (Correct)*
* *Set IGNORE\_TLS in the 'daemon.json' configuration file.*

**Answer :**Utilize dockerd flag '--insecure-registry' at the run time.

**Which of the following are correct about 'Docker secrets' ?**

Options are :

* *Docker secrets can only be used by 'Swarm Services', and it can't be used by standalone containers . (Correct)*
* *Secrets can be modified after they are created.*
* *Secrets can be created using standard input (STDIN) and a file. (Correct)*
* *Docker secrets can be used to centrally manage data and securely transmit it to only those containers that need access to it (Correct)*

**Answer :**Docker secrets can only be used by 'Swarm Services', and it can't be used by standalone containers . Secrets can be created using standard input (STDIN) and a file. Docker secrets can be used to centrally manage data and securely transmit it to only those containers that need access to it

**Which of the following commands will automatically create a volume when a container is started?**

Options are :

* *docker container run --name nginx -v myvol:/production nginx (Correct)*
* *docker container run --name nginx -V /production:mount nginx*
* *docker container run --name nginx -v /production:mount nginx*
* *docker container run --name nginx --volumes=/production nginx*

**Answer :**docker container run --name nginx -v myvol:/production nginx

**Which of the following docker command can you use to connect a running container to an existing user-defined bridge?**

Options are :

* *docker network attach*
* *docker network join*
* *docker network connect (Correct)*
* *docker connect network*

**Answer :**docker network connect

**Which is the docker command to display detailed information on one or more networks?**

Options are :

* *docker network status*
* *docker inspect network*
* *docker network display*
* *docker network inspect (Correct)*

**Answer :**docker network inspect

**Which of the following is the docker command to create a container with custom DNS server(s)?**

Options are :

* *docker container create --set-dns=IP\_ADDRESS*
* *docker container create --dns=IP\_ADDRESS (Correct)*
* *docker container create --add-dns=IP\_ADDRESS*
* *docker container create --cusom-dns=IP\_ADDRESS*

**Answer :**docker container create --dns=IP\_ADDRESS

**Which of the following statement is false about Virtual IP (VIP)?**

Options are :

* *There are multiple VIP for a service, one for each task. (Correct)*
* *Traffic to the VIP is automatically sent to all healthy tasks of that service across the overlay network.*
* *When resolving the service's name, a VIP is returned.*
* *When services are created in a Docker swarm cluster, they are automatically assigned a VIP that is part of the service's network.*

**Answer :**There are multiple VIP for a service, one for each task.

**When you publish a port of a service in swarm mode it is published on every node in the cluster by default? True or false**

Options are :

* *FALSE*
* *TRUE (Correct)*

**Answer :**TRUE

**Which of the following differences between user-defined bridge networks and the default bridge network is FALSE?**

Options are :

* *User-defined bridges provide better isolation and interoperability between containerized applications.*
* *Linked containers on the default bridge network share environment variables.*
* *Containers can be attached and detached from the default bridge network on the fly. (Correct)*
* *User-defined bridges provide automatic DNS resolution between containers.*

**Answer :**Containers can be attached and detached from the default bridge network on the fly.

**Which address pool is used by Docker Swarm by default?**

Options are :

* *192.168.0.0/16*
* *10.0.0.0/16*
* *10.0.0.0/8 (Correct)*
* *172.16.0.0/12*

**Answer :**10.0.0.0/8

**Which option is true about using the -P flag when creating a new container?**

Options are :

* *Docker binds each exposed container port with the same port on the host.*
* *Docker gives extended privileges to the container.*
* *Docker binds each exposed container port to a random port on all the host's interface. (Correct)*
* *Docker binds each exposed container port to a random port on a specified host interface.*

**Answer :**Docker binds each exposed container port to a random port on all the host's interface.

**When running network in 'host' mode, what option of ‘docker run’ can you use to override the hostname of the container?**

Options are :

* *--hostname (Correct)*
* *-n*
* *--name*
* *-host*

**Answer :**--hostname

**Which of the following provides supports for host networking?**

Options are :

* *Docker Desktop for Windows*
* *Docker EE for Windows Server*
* *Docker Desktop for Mac*
* *Docker for Linux Distributions (Correct)*

**Answer :**Docker for Linux Distributions

**Which of the following components is used to track IP addresses and to provide default subnets or IP addresses for the networks and endpoints?**

Options are :

* *MACVLAN*
* *libnetwork*
* *IPAM drivers (Correct)*
* *Network Sandbox*

**Answer :**IPAM drivers

**Which of the following network drivers connects the network stack of the container directly to Docker Host?**

Options are :

* *host (Correct)*
* *bridge*
* *macvlan*
* *overlay*

**Answer :**host

**Ingress network is a type of \_\_\_\_\_ network?**

Options are :

* *overlay network (Correct)*
* *bridge network*
* *macvlan network*
* *host network*

**Answer :**overlay network

**You have created a Docker bridge network on a host with three containers attached. How can you make these containers accessible outside of the host?**

Options are :

* *Use --link*
* *Use network connect*
* *Use EXPOSE together with --publish-all (Correct)*
* *Use network attach*

**Answer :**Use EXPOSE together with --publish-all

**Which type of network driver is best when the network stack should not be isolated from the Docker host, but you want other aspects of the container to be isolated?**

Options are :

* *Macvlan networks*
* *Overlay networks*
* *Host networks (Correct)*
* *User-defined bridge networks*

**Answer :**Host networks

**Which type of network driver is best when you need multiple containers to communicate on the same Docker host?**

Options are :

* *Host networks*
* *Overlay networks*
* *User-defined bridge networks (Correct)*
* *Macvlan networks*

**Answer :**User-defined bridge networks

**Which type of network driver is best when you are migrating from a VM setup or need your containers to look like physical hosts on your network, each with a unique MAC address?**

Options are :

* *User-defined bridge networks*
* *Macvlan networks (Correct)*
* *Host networks*
* *Overlay networks*

**Answer :**Macvlan networks

**Which option for exposing a service is best if your service is normally accessed via HTTP/HTTPS?**

Options are :

* *ClusterIP*
* *LoadBalancer*
* *Ingress (Correct)*
* *NodePort*

**Answer :**Ingress

**In Docker swarm, traffic can be routed to services based on hostname. True or false?**

Options are :

* *TRUE (Correct)*
* *FALSE*

**Answer :**TRUE

**Which of the following network drivers uses VXLAN data plane to decouple docker network from the underlay physical network?**

Options are :

* *bridge*
* *macvlan*
* *host*
* *overlay (Correct)*

**Answer :**overlay

**Which of the following is incorrect about overlay networks?**

Options are :

* *Docker transparently handles routing of each packet to and from the correct Docker daemon host and the correct destination container.*
* *Service management traffic is encrypted by default, but application data traffic can be encrypted as well*
* *Overlay networks are only created on the manager nodes. (Correct)*
* *Overlay networks use VXLAN data plane to decouples the container network from the underlying physical network (the underlay).*

**Answer :**Overlay networks are only created on the manager nodes.

**Which docker run option can you use to publish a port so that an application is accessible externally?**

Options are :

* *docker run --publish-port*
* *docker run --expose*
* *docker run --publish (Correct)*
* *docker run --open-port*

**Answer :**docker run --publish

**Which docker network is used to connect the individual Docker daemon to the other daemons participating in the swarm?**

Options are :

* *docker\_gwbridge (Correct)*
* *bridge*
* *overlay*
* *ingress*

**Answer :**docker\_gwbridge

**In which of the following modes can you create Macvlan networks? (select two)**

Options are :

* *802.1q trunk bridge mode (Correct)*
* *Bridge mode (Correct)*
* *Promiscuous mode*
* *Direct mode*

**Answer :**802.1q trunk bridge mode Bridge mode

**By default, in which mode are services running when using the routing mesh?**

Options are :

* *Swarm mode*
* *DNSRR mode*
* *Global mode*
* *Virtual IP mode (Correct)*

**Answer :**Virtual IP mode

**Which of the following networks is used as the default network for Kubernetes by Universal Control Plane?**

Options are :

* *Calico (Correct)*
* *Weave net*
* *Flannel*
* *Romana*

**Answer :**Calico

**Which of the following statements is false?**

Options are :

* *Linked containers on the user-defined networks can share environment variables (Correct)*
* *Containers can be attached and detached from user-defined networks on the fly*
* *Each user-defined network creates a configurable bridge*
* *User-defined bridges provide better isolation and interoperability between containerized applications*

**Answer :**Linked containers on the user-defined networks can share environment variables

**Which of the following commands can you use to create a bridge network?**

Options are :

* *docker network add*
* *docker create network*
* *docker network deploy*
* *docker network create (Correct)*

**Answer :**docker network create

**Which is the default method of exposing a service internally in Docker Kubernetes Service?**

Options are :

* *LoadBalancer*
* *ClusterIP (Correct)*
* *NodePort*
* *Ingress*

**Answer :**ClusterIP

**You want to run an nginx web-server container as a background process. Which of the following is the correct command to make sure that the port 80 of the container is mapped to port 8080 on localhost machine?**

Options are :

* *docker run -itd --name web-server -P nginx:latest*
* *docker run --name web-server -p 8080:80 nginx:latest*
* *docker run -itd --name web-server -p 8080:80 nginx:latest (Correct)*
* *docker run -itd --name web-server -p 80:8080 nginx:latest*

**Answer :**docker run -itd --name web-server -p 8080:80 nginx:latest

**An application image runs in multiple environments, and each environment uses different certificates and ports, what is the best practice to deploy the containers?**

Options are :

* *A. Create images that contain the specific configuration for every environment.*
* *A. Create a config file for each environment.*
* *A. Create a Dockerfile for each environment, specifying ports and Docker secrets for certificates.*
* *A. Create a Dockerfile for each environment, specifying ports and ENV variables for certificates.*

**Answer :**A. Create a config file for each environment.

**Which of the following is NOT one of the 3 main Docker Container Network Model components?**

Options are :

* *Endpoint*
* *Sandbox*
* *Network*
* *Routing*

**Answer :**Routing

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Which of the following commands will create a swarm service which only listens on port 53 using the UDP protocol?**

Options are :

* *docker service create --name dns-cache -p 53:53 --udp dns-cache*
* *docker service create --name dns-cache -p 53:53 --constraint networking-protocol-udp=true dns-cache*
* *docker service create --name dns-cache -p 53:53 --service udp dns-cache*
* *docker service create --name dns-cache -p 53:53/udp dns-cache*

**Answer :**docker service create --name dns-cache -p 53:53/udp dns-cache

**What is the docker command to add or update a node label?**

Options are :

* *docker node add --label*
* *docker node update --set-label*
* *docker node update --label-add*
* *docker node modify --set-label*

**Answer :**docker node update --label-add

**You have just executed 'docker swarm leave' on a node. What command can be run on the same node to confirm it has left the cluster?**

Options are :

* *docker system info*
* *docker node status*
* *docker system status*
* *docker node ls*

**Answer :**docker system info

[Docker and Containers: Commands Set 1](https://chercher.tech/docker-certification/docker-and-containers-commands-set-1)

**What type of network is ingress network?**

Options are :

* *bridge network*
* *host network*
* *macvlan network*
* *overlay network*

**Answer :**overlay network

**Which of the following namespaces is disabled by default and must be enabled at Docker engine runtime in order to be used?**

Options are :

* *mnt*
* *net*
* *user*
* *pid*

**Answer :**user

**Which command interactively monitors all container activity in the Docker engine?**

Options are :

* *docker container logs*
* *docker system events*
* *docker system logs*
* *docker container events*

**Answer :**docker system events

[Docker Certified Associate (DCA) Practice Exams Set 11](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-11)

**A host machine has four CPUs available and two running containers. The sysadmin would like to assign two CPUs to each container. Which of the following commands achieves this?**

Options are :

* *Set the '--cpu-quota' flag to '1.3' on one container and '2,4' on the other container.*
* *Set the '--cpuset-cpu's flag to '1.3' on one container and '2.4' on the other container.*
* *Set the '--cpuset-cpus' flag to '.5' on both containers*
* *Set the '--cpuset-cpus' flag of the 'dockerd' process to the value 'even-spread'*

**Answer :**Set the '--cpuset-cpus' flag to '.5' on both containers

**What is the docker run option to publish a port so that an application is accessible externally?**

Options are :

* *docker run --publish-port*
* *docker run --expose*
* *docker run --open-port*
* *docker run --publish*

**Answer :**docker run --publish

**What is the docker command to display detailed information on one or more networks?**

Options are :

* *docker network display*
* *docker network status*
* *docker network inspect*
* *docker inspect network*

**Answer :**docker network inspect

[Docker and Containers: Commands Set 1](https://chercher.tech/docker-certification/docker-and-containers-commands-set-1)

**What docker image prune command does?**

Options are :

* *Display detailed information on one or more images*
* *Show the history of an image*
* *Remove unused images*
* *Remove one or more images*

**Answer :**Remove unused images

**Which of the following commands will ensure that overlay traffic between service tasks is encrypted?**

Options are :

* *docker network create -d overlay -o encrypted=true*
* *docker network create -d overlay --secure*
* *docker service create --network --secure*
* *docker service create --network --encrypted*

**Answer :**docker network create -d overlay -o encrypted=true

**What is the docker command to setup a swarm?**

Options are :

* *docker init swarm*
* *docker swarm create*
* *docker swarm init*
* *docker create swarm*

**Answer :**docker swarm init

[Docker Certified Associate (DCA) Practice Exams Set 11](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-11)

**Which of the following commands is used to display system-wide Docker configuration on a host**

Options are :

* *docker status*
* *docker system*
* *docker info*
* *docker inspect*

**Answer :**docker info

**What are the two types of docker swarm services?**

Options are :

* *replicated and global services*
* *distributed and replicated services*
* *local and global services*
* *replicated and local services*

**Answer :**replicated and global services

**What is the endpoint that we can use to check the health of a single UCP manager node?**

Options are :

* *https:///\_heartbeat*
* *https:///\_status*
* *https:///\_health*
* *https:///\_ping*

**Answer :**https:///\_ping

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**What is the command that need to be executed to sign an image before pushing it to repository?**

Options are :

* *export TRUST\_DOCKER\_IMAGE=1*
* *export DOCKER\_CONTENT\_TRUST=1*
* *export TRUST\_DOCKER\_CONTENT=1*
* *export SIGN\_DOCKER\_IMAGE=1*

**Answer :**export DOCKER\_CONTENT\_TRUST=1

**Where is the option to integrate Docker Enterprise with LDAP?**

Options are :

* *Docker Machine*
* *Docker Compose*
* *Universal Control Plane*
* *Docker Trusted Registry*

**Answer :**Universal Control Plane

**What is the docker command to create a container with custom DNS server(s)?**

Options are :

* *docker container create --custom-dns=IP\_ADDRESS*
* *docker container create --add-dns=IP\_ADDRESS*
* *docker container create --dns=IP\_ADDRESS*
* *docker container create --set-dns=IP\_ADDRESS*

**Answer :**docker container create --dns=IP\_ADDRESS

[Docker Certified Associate (DCA) Practice Exams Set 2](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-2)

**What is the docker command to backup the UCP?**

Options are :

* *docker/ucp backup*
* *docker backup ucp*

**Answer :**docker/ucp backup

**What is the docker command to see container logs?**

Options are :

* *docker logs*
* *docker debug*
* *docker fetch-logs*
* *docker dump-logs*

**Answer :**docker logs

**What are the two types of UCP client bundles?**

Options are :

* *Docker CLI bundles and Docker web UI bundles*
* *Admin user certificate bundles and user certificate bundles*
* *Docker UCP client bundles and DTR client bundles*
* *Ops client bundles and dev client bundles*

**Answer :**Admin user certificate bundles and user certificate bundles

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**What is the correct order to backup Docker EE components?**

Options are :

* *Back up DTR, UCP, and then swarm*
* *Back up swarm, DTR, and then UCP*
* *Back up swarm, UCP, and then DTR*
* *Back up UCP, swarm, and then DTR*

**Answer :**Back up swarm, UCP, and then DTR

**What is the difference between UCP workers and managers?**

Options are :

* *ucp-agent service automatically starts serving all UCP components in worker node, and only a proxy service in manager node*
* *ucp-agent service automatically starts serving all UCP components in manager node, and only a proxy service in worker node*

**Answer :**ucp-agent service automatically starts serving all UCP components in manager node, and only a proxy service in worker node

**Which of the following docker image commands display detailed information on one or more images?**

Options are :

* *docker image ls*
* *docker image history*
* *docker image inspect*
* *docker image detail*

**Answer :**docker image inspect

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**Which of the following are types of namespaces used by Docker to provide isolation? (Choose 2)**

Options are :

* *Authentication*
* *Process ID*
* *Host*
* *Network*
* *Storage*

**Answer :**Process ID Network

**Which of the following statement is true about secrets?**

Options are :

* *Secrets can be created from any node in the cluster*
* *Secrets can be created using standard input (STDIN) and a file*
* *Secrets can be modified after they are created*
* *Secrets are stored unencrypted on manager nodes*

**Answer :**Secrets can be created using standard input (STDIN) and a file

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**Which set of commands can identify the publishd port(s) for a container?**

Options are :

* *'docker container inspect', docker port'*
* *'docker port inspect', 'docker container inspect'*
* *'docker network inspect', 'docker port'*
* *'docker info','docker network inspect'*

**Answer :**'docker container inspect', docker port'

**Which of the following is NOT a valid way to tag a Docker image?**

Options are :

* *Tag an image referenced by Name and Tag*
* *Tag an image referenced by user ID*
* *Tag an image referenced by image ID*
* *Tag an image referenced by Name*

**Answer :**Tag an image referenced by user ID

**When using the Docker client to push an image to a registry, what environment variable is used to instruct the client to perform signing of the image?**

Options are :

* *DOCKER\_PUSH\_SIGN=1*
* *DOCKER\_IMAGE\_SIGN=1*
* *NOTARY\_ENABLE=1*
* *DOCKER\_CONTENT\_TRUST=1*

**Answer :**DOCKER\_CONTENT\_TRUST=1

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**How do you configure Docker engine to use a registry that is not configured with TLS certificates from a trusted CA?**

Options are :

* *Pass the '--insecure-registry' flag to the daemon at run time.*
* *Set and export the IGNORE\_TLS environment variable on the command line.*
* *Set IGNORE\_TLS in the 'daemon.json' configuration file.*
* *Set INSECURE\_REGISTRY in the '/etc/docker/default' configuration file.*

**Answer :**Pass the '--insecure-registry' flag to the daemon at run time.

**Which of the Dockerfile options executes any commands in a new layer on top of the current image and commit the results?**

Options are :

* *FROM*
* *ONBUILD*
* *CMD*
* *RUN*

**Answer :**RUN

**Which of the following is NOT backed up when performing a Docker Trusted backup operation?**

Options are :

* *Image blobs*
* *DTR configurations*
* *Access control to repos and images*
* *Repository metadata*

**Answer :**Image blobs

[Docker and Containers: Commands Set 1](https://chercher.tech/docker-certification/docker-and-containers-commands-set-1)

**What service mode is used to deploy a single task of a service to each node?**

Options are :

* *Global*
* *Universal*
* *Distributed*
* *Replicated*
* *Spread*

**Answer :**Global

**What is the image storage solution that is part of Docker Enterprise Edition called?**

Options are :

* *Docker Hub*
* *Docker Trusted Registry*
* *Universal Control Plane*
* *Docker Registry*

**Answer :**Docker Trusted Registry

**Which of the following docker image commands display detailed information on one or more images?**

Options are :

* *docker image history*
* *docker image inspect*
* *docker image detail*
* *docker image ls*

**Answer :**docker image inspect

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**What is the recommended way to configure the daemon flags and environment variables for your Docker daemon in a platform independent way?**

Options are :

* *Set the configuration options in '/etc/docker/daemon.json'*
* *Set the configuration DOCKER\_OPTS in '/etc/default/docker'*
* *Set the configuration options using the ENV variable*
* *Using 'docker config' to set the configuration options.*

**Answer :**Set the configuration options in '/etc/docker/daemon.json'

**Which of the following modes can be used for service discovery of a Docker swarm service (Pick 2 correct answers)?**

Options are :

* *Virtual IP (VIP) with --endpoint-mode vip*
* *Network Address Translation(NAT) with --endpoint-mode nat*
* *Ingress with --endpoint-mode ingress*
* *Overlay with --endpoint-mode overlay*
* *DNS Round-Robin with --endpoint-mode dnsrr*

**Answer :**Virtual IP (VIP) with --endpoint-mode vip DNS Round-Robin with --endpoint-mode dnsrr

**What is the default format of docker inspect output?**

Options are :

* *yaml*
* *json*
* *xml*
* *html*

**Answer :**json

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**What is the function of docker inspect command ?**

Options are :

* *To display system-wide information*
* *To manage Docker configs*
* *To inspect changes to files or directories on a container's filesystem*
* *To return low-level information on Docker objects*

**Answer :**To return low-level information on Docker objects

**After creating a new service named 'http', you notice that the new service is not registering as healthy. How do you view the list of historical tasks for that service by using the command line?**

Options are :

* *'docker inspect http'*
* *'docker service ps http'*
* *'docker service inspect http'*
* *'docker ps http'*

**Answer :**'docker service inspect http'

**Which of the following is supported by control groups?**

Options are :

* *Manage certificates*
* *Isolate processes in a container*
* *Collect net*
* *Limit CPU usage within a container*

**Answer :**Limit CPU usage within a container

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**Which of the following constitutes a production-ready devicemapper configuration for the docker engine?**

Options are :

* *Create a volume group in devicemapper and utilize the '--dm.thinpooldev' Docker daemon option, specifying the volume group.*
* *Nothing, devicemapper comes ready for production usage out of the box.*
* *Format a partition with the xfs and mount it at '/var/lib/docker'*
* *Utilize the '--storage-opt dm.directlvm\_device' Docker daemon option, specifying a block device.*

**Answer :**Utilize the '--storage-opt dm.directlvm\_device' Docker daemon option, specifying a block device.

**The following health check exists in a Dockerfile:**

**'HEALTCHECK CMD curl --fail http://localhost/health || exit 1'**

**Which of the following describes its purpose?**

Options are :

* *Defines the health check endpoint on the localhost interface for external monitoring tools to monitor the health of the docker engine.*
* *Defines the action taken when container health fails, which in this case will kill the container with exit status 1.*
* *Defines the health check endpoint on the local host interface for containers to monitor the health of the docker engine.*
* *Defines the health check for the containerized application so that the application health can be monitored by the Docker engine.*

**Answer :**Defines the action taken when container health fails, which in this case will kill the container with exit status 1.

**Which docker feature enables each node in the swarm to accept connections on published ports for a service running in the swarm, even if there’s no task of that service running on the node?**

Options are :

* *routing mesh (Correct)*
* *load balancer*
* *firewall*
* *VLANs*

**Answer :**routing mesh

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**What is the scope of the overlay network driver in Docker?**

Options are :

* *swarm (Correct)*
* *service*
* *local*
* *global*

**Answer :**swarm

**Which of the following statement is false about ingress networks?**

Options are :

* *It is automatically created when you initialize a swarm or join a Docker host to an existing swarm*
* *It transports mesh routing traffic from external clients to cluster services.*
* *You cannot connect standalone containers to ingress networks. (Correct)*
* *Default ingress overlay network is used by swarm services by default.*

**Answer :**You cannot connect standalone containers to ingress networks.

**What network port is used on Docker host to allow overlay network traffic in swarm mode?**

Options are :

* *TCP port 2377*
* *UDP port 4789 (Correct)*
* *UDP port 7946*
* *TCP port 443*

**Answer :**UDP port 4789

[Docker Certified Associate (DCA) Practice Exams Set 11](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-11)

**Which type of network driver is best when you need containers running on different Docker hosts to communicate, or when multiple applications work together using swarm services?**

Options are :

* *User-defined bridge networks*
* *Host networks*
* *Macvlan networks*
* *Overlay networks (Correct)*

**Answer :**Overlay networks

**Docker containers connect by default to which of the following network drivers?**

Options are :

* *docker\_gwbridge*
* *bridge (Correct)*
* *overlay*
* *host*

**Answer :**bridge

**Which of the following commands should you use to ensure that overlay traffic between service tasks is encrypted?**

Options are :

* *docker service create --network –encrypted*
* *docker service create --network --secure*
* *docker network create -d overlay -o encrypted=true (Correct)*
* *docker network create -d overlay --secure*

**Answer :**docker network create -d overlay -o encrypted=true

[Docker and Containers: Commands Set 4](https://chercher.tech/docker-certification/docker-and-containers-commands-set-4)

**Which of the following is the default network for swarm services?**

Options are :

* *ingress (Correct)*
* *none*
* *host*
* *bridge*

**Answer :**ingress

**Which is the default logging driver of Docker for Linux distributions?**

Options are :

* *fluentd*
* *none*
* *syslog*
* *json-file (Correct)*

**Answer :**json-file

[Docker Certified Associate (DCA) Practice Exams Set 10](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-10)

**Which of the following namespaces is not activated by default?**

Options are :

* *pid*
* *mnt*
* *user (Correct)*
* *uts*

**Answer :**user

**With which flag should you run docker swarm init, after restoring a swarm backup, to ensure that the node does not attempt to connect to nodes that were part of the old swarm?**

Options are :

* *--force-new-cluster (Correct)*
* *--force*
* *--force-init*
* *--restore*

**Answer :**--force-new-cluster

**Which of the following is not backed up when performing a Docker Trusted Registry (DTR) backup?**

Options are :

* *Docker images. (Correct)*
* *Repository metadata.*
* *DTR Configurations*
* *Role-based access control (RBAC) settings.*

**Answer :**Docker images.

**What docker command can you use to find the current logging driver for a running container?**

Options are :

* *docker inspect (Correct)*
* *docker status*
* *docker info*
* *docker config*

**Answer :**docker inspect

**When you start manually the docker daemon you see an error like the one below. What should you do?**

**unable to configure the Docker daemon with file /etc/docker/daemon.json: the following directives are specified both as a flag and in the configuration file: hosts: (from flag: [unix:///var/run/docker.sock], from file: [tcp://127.0.0.1:2376])**

Options are :

* *Ensure the host is accessible on the network and try again*
* *Restart your host to resolve the conflict*
* *Adjust the flags you're using to start the daemon or modify the daemon.json to remove the conflict (Correct)*
* *Verify that port 2376 is open*

**Answer :**Adjust the flags you're using to start the daemon or modify the daemon.json to remove the conflict

**What is the purpose of the Universal Control Plane (UCP)?**

Options are :

* *To provide an integrated application management platform (Correct)*
* *To configure docker on a Linux host*
* *To control all the running container processes*
* *To create a docker swarm cluster*

**Answer :**To provide an integrated application management platform

**From where can you get a repository URL for installing the Docker Enterprise Edition (EE)?**

Options are :

* *Docker Hub (Correct)*
* *Docker Trusted Registry*
* *Docker Enterprise Hub*
* *Docker Marketplace*

**Answer :**Docker Hub

**Which of the following commands can you use to display system-wide Docker configuration on a host?**

Options are :

* *docker system*
* *docker info (Correct)*
* *docker inspect*
* *docker status*

**Answer :**docker info

**Which of the following products are included with a Docker EE software subscription? (select three)**

Options are :

* *Docker Universal Control Plane (Correct)*
* *Docker Swarm*
* *Docker Engine with enterprise-grade support (Correct)*
* *Docker Hub*
* *Docker Trusted Registry (Correct)*

**Answer :**Docker Universal Control Plane Docker Engine with enterprise-grade support Docker Trusted Registry

**Which command can you use to start a docker daemon manually?**

Options are :

* *dockerd (Correct)*
* *docker daemon start*
* *docker start --daemon*
* *sudo docker daemon start*

**Answer :**dockerd

**Which command can you use to interactively monitor all container activity in the Docker engine?**

Options are :

* *docker container logs*
* *docker system events (Correct)*
* *docker container events*
* *docker system logs*

**Answer :**docker system events

**Which logging driver is not supported by Docker?**

Options are :

* *awslogs*
* *gcplogs*
* *azurelogs (Correct)*
* *none*
* *syslog*

**Answer :**azurelogs

**What is used by the kernel to provide isolation for resources when running Docker containers?**

Options are :

* *Namespaces (Correct)*
* *Overlay networks*
* *Control groups*
* *Volumes*

**Answer :**Namespaces

**A host machine has 4 CPUs available and 2 running containers. The sysadmin would like to assign 2 CPUs to each container. Which of the following commands achieves this?**

Options are :

* *Set the '--cpuset-cpus' flag of the 'dockerd' process to the value 'even-spread'*
* *Set the '--cpuset-cpu's flag to '0,2' on one container and '1,3' on the other container. (Correct)*
* *Set the '--cpu-quota' flag to '0,2' on one container and '1,3' on the other container.*
* *Set the '--cpuset-cpus' flag to '.5' on both containers*

**Answer :**Set the '--cpuset-cpu's flag to '0,2' on one container and '1,3' on the other container.

**Which of the following endpoints exposed by Docker Trusted Registry (DTR) can be used to assess the health of a Docker Trusted Registry replica?**

Options are :

* */health (Correct)*
* */replica\_status*
* */nginx/health*
* */api/health*

**Answer :**/health

**Which of the following components needs to be considered when making a backup for Docker EE? (select all that apply)**

Options are :

* *DTR (Correct)*
* *Swarm (Correct)*
* *RBAC*
* *UCP (Correct)*

**Answer :**DTR Swarm UCP

**How can you configure the default logging driver for containers?**

Options are :

* *Use loging-driver –flag*
* *Set the log-driver option in the key.json file*
* *Set the log-driver option in the deamon.json file (Correct)*
* *Use --log-driver flag*

**Answer :**Set the log-driver option in the deamon.json file

**Which of the following features is supported by control groups?**

Options are :

* *Manage certificates*
* *Isolate processes in a container*
* *Limit CPU usage within a container (Correct)*
* *Collect logs*

**Answer :**Limit CPU usage within a container

**Which of the following aspects of a container can make use of namespaces to provide isolation? (Choose 2)**

Options are :

* *Process ID (Correct)*
* *Host*
* *Network (Correct)*
* *Authentication*
* *Storage*

**Answer :**Process ID Network

**How is called the image storage solution that is part of Docker Enterprise Edition?**

Options are :

* *Docker Trusted Registry (Correct)*
* *Docker Registry*
* *Universal Control Plane*
* *Docker Hub*

**Answer :**Docker Trusted Registry

**Single sign-on (SSO) with UCP can only be configured at installation time?**

Options are :

* *TRUE*
* *FALSE (Correct)*

**Answer :**FALSE

**Pods use claims as volumes. The cluster inspects the claim to find the bound volume and mounts that volume for a Pod. If a user deletes a PVC in active use by a Pod, the PVC is not removed immediately. True or False ?**

Options are :

* *False. (Correct)*
* *True.*

**Answer :**False.

**What command is used to push an image to a registry or to share images to the Docker Hub registry ?**

Options are :

* *docker pull [OPTIONS] NAME[:TAG]*
* *docker commit [OPTIONS] NAME[:TAG]*
* *docker push [OPTIONS] NAME[:TAG] (Correct)*
* *docker upload [OPTIONS] NAME[:TAG]*

**Answer :**docker push [OPTIONS] NAME[:TAG]

**Which of the following are two different types of client certificates?**

Options are :

* *CLI bundles*
* *admin user certificates bundles (Correct)*
* *user certificate bundles (Correct)*
* *Ops certificates bundles*

**Answer :**admin user certificates bundles user certificate bundles

**The command 'docker inspect' returns low-level information on Docker objects . What is the format of 'docker inspect' command output ?**

Options are :

* *plain text*
* *xml format*
* *html code*
* *JSON array (Correct)*

**Answer :**JSON array

**What is the docker command to add or update a service’s bind mounts or volumes?**

Options are :

* *docker service --add-update-mount*
* *docker service set --add-update-mount*
* *docker service --mount-volume*
* *docker service update --mount-add (Correct)*

**Answer :**docker service update --mount-add

**Docker Universal Control Plane (UCP), the UI for Docker Enterprise, lets you authorize users to view, edit, and use cluster resources by granting role-based permissions against resource sets. What is a grant made up of in Docker's Role Based Access Controls (RBAC) ? (Select all that apply)**

Options are :

* *Certificate*
* *Resource collection (Correct)*
* *Subject (Correct)*
* *Role (Correct)*

**Answer :**Resource collection Subject Role

**Docker security scan can be performed using online and offline mode . Its security scan result is available in both UCP and DTR. True or false?**

Options are :

* *TRUE.*
* *FALSE. (Correct)*

**Answer :**FALSE.

**Which command enables you to scale one or more replicated services either up or down to the desired number of replicas?**

Options are :

* *docker service scale (Correct)*
* *docker service replica*
* *docker service increase*
* *docker service build*

**Answer :**docker service scale

**Whats is the command to set the DNS search domain for all Docker containers?**

Options are :

* *dockerd --dns-search domainexample.com (Correct)*
* *docker container -a --dns domainexample.com*
* *docker container -a --dns-search domainexample.com*
* *dockerd --dns domainexample.com*

**Answer :**dockerd --dns-search domainexample.com

**It is possible to monitor the status of UCP by using web UI or the CLI. From this point, what is the endpoint that it can be used to check if a node is healthy or not ?**

Options are :

* *https:///\_health*
* *https:///\_status*
* *https:///\_stats*
* *https:///\_ping (Correct)*

**Answer :**https:///\_ping

**Which of following options below enable a container to restart automatically if it stops, except that, when the container is stopped manually ?**

Options are :

* *docker run -d --restart-policy unless-stopped apache*
* *docker run -d --restart unless-stopped apache (Correct)*
* *docker run -d --health-start-period 0 apache*
* *docker run -d --live-restart unless-stopped apache*

**Answer :**docker run -d --restart unless-stopped apache

**Whats is the command to set the DNS server for all Docker containers ?**

Options are :

* *dockerd --dns 8.8.8.8 (Correct)*
* *dockerd --dns-search 8.8.8.8*
* *dockerd --set-dns 8.8.8.8*
* *dockerd --dns-server 8.8.8.8*

**Answer :**dockerd --dns 8.8.8.8

**Docker uses a technology called namespaces to provide the isolated workspace called the container. That way, what namespaces are used by Docker engine ?**

Options are :

* *SEC*
* *IPC (Correct)*
* *NET (Correct)*
* *PID (Correct)*
* *OPT*

**Answer :**IPC NET PID

**What are the requirements to backup EE components ?**

Options are :

* *Ensure time synchronization between UCP managers.*
* *Have adequate space available for backup contents. (Correct)*
* *Before performing a backup or restore operation for any component of Docker Enterprise, you must have healthy managers. (Correct)*
* *Ensure ESP traffic between UCP managers.*

**Answer :**Have adequate space available for backup contents. Before performing a backup or restore operation for any component of Docker Enterprise, you must have healthy managers.

**Which of the following ensure that, "Content trust will be enforced and an image that cannot be verified successfully will not be pulled or run" ?**

Options are :

* *export TRUST\_DOCKER\_IMAGE=1*
* *export TRUST\_DOCKER\_CONTENT=1*
* *export DOCKER\_CONTENT\_TRUST=1 (Correct)*
* *export SIGN\_DOCKER\_IMAGE=1*

**Answer :**export DOCKER\_CONTENT\_TRUST=1

**How to copy Docker images from one host to another ?**

Options are :

* *'docker save -o ' to backup the image , and docker push' to send the image to target host . Then, 'docker load -i ' to save the image as TAR file and copy it over to the target host. Then, on the target host, use 'docker load -i ' to un-TAR the image back as a Docker image. (Correct)*
* *'docker commit [OPTIONS] CONTAINER [REPOSITORY[:TAG]]' to save the image outside of the Docker filesystem. Then transfer the file over to the target host and 'docker start' to start the container again.*
* *There is no way of directly transferring Docker images between hosts. A Docker Registry must be used ad an intermediary.*

**Answer :**'docker save -o ' to save the image as TAR file and copy it over to the target host. Then, on the target host, use 'docker load -i ' to un-TAR the image back as a Docker image.

**Which of the following options are valid to deploy a stack using a compose file?**

Options are :

* *docker stack up -f docker-compose.yml production*
* *cat docker-compose.yml - docker stack deploy --compose-file - production (Correct)*
* *docker compose up -s deploy docker-compose.yml production*
* *docker stack deploy --compose-file docker-compose.yml production (Correct)*

**Answer :**cat docker-compose.yml - docker stack deploy --compose-file - production docker stack deploy --compose-file docker-compose.yml production

**Which of the following ensure that a service task uses no more than 4GB of memory on a node?**

Options are :

* *docker service create --limit-quota=4GB --name=web nginx:alpine*
* *docker service create --reserve-memory=4GB --name=too-big nginx:alpine*
* *docker service create --reserve-quota=4GB --name=web nginx:alpine*
* *docker service create --limit-memory=4GB --name=web nginx:alpine (Correct)*

**Answer :**docker service create --limit-memory=4GB --name=web nginx:alpine

**Docker Universal Control Plane (UCP), the UI for Docker Enterprise, lets you authorize users to view, edit, and use cluster resources by granting role-based permissions called RBAC (Role based access controls). What does this RBAC consists of ?**

Options are :

* *Resource collection, Role and Subject. (Correct)*
* *Users, Teams, and Organizations*
* *Service accounts, Grants and Certificates*
* *Users, Groups and Permissions.*

**Answer :**Resource collection, Role and Subject.

**What is the main purpose of a UCP client bundle ?**

Options are :

* *Provide a new user instructions for how to login to the Universal Control Plane*
* *Provide organization groups in a team in the Universal Control Plane*
* *It allows you to authorize a remote Docker engine to a specific user account managed in Docker EE, absorbing all associated RBAC controls in the process. (Correct)*
* *Provide a user with a Docker client binary compatible with the Universal Control Plane*

**Answer :**It allows you to authorize a remote Docker engine to a specific user account managed in Docker EE, absorbing all associated RBAC controls in the process.

**Which of the following will create a service that it will listen on port 8080 and forward to port 80 in the container ?**

Options are :

* *docker service create --publish 80:8080 redis*
* *docker service run --publish 80:8080 redis*
* *docker service start --publish 8080:80 redis*
* *docker service create --publish 8080:80 redis (Correct)*

**Answer :**docker service create --publish 8080:80 redis

**Following is the persistent volume claim. The Sysadmin decides to remove PVC. Thus, the volume will be removed. True or False ?**

1. **apiVersion: v1**
2. **kind: Pod**
3. **metadata:**
4. **name: backendpod**
5. **spec:**
6. **containers:**
7. **- name: backend**
8. **image: mysql**
9. **volumeMounts:**
10. **- mountPath: " /var/lib/mysql"**
11. **name: backendpod**
12. **volumes:**
13. **- name: backendpod**
14. **persistentVolumeClaim:**
15. **claimName: myclaim**

Options are :

* *False*
* *True (Correct)*

**Answer :**True

**By default, users with read and write access to a repository can push the same tag multiple times to that repository. In order to prevent tags from being overwritten, you can configure a repository to be immutable. True or False ?**

Options are :

* *True (Correct)*
* *False.*

**Answer :**True

**A replicated service is a service that runs one task on every node, furthermore there is no pre-specified number of tasks. On the other hand, global services you specify the number of identical tasks that you want to run onto available nodes. True or False ?**

Options are :

* *False. (Correct)*
* *True.*

**Answer :**False.

**What command shows layers of an image ?**

Options are :

* *docker image info*
* *docker image ps*
* *docker history (Correct)*
* *docker image ls*

**Answer :**docker history

**It is possible to configure the Docker Trusted Registry (DTR) to automatically delete unused image layers, thus saving you disk space. How does it known this process ?**

Options are :

* *This process is also known as clean images.*
* *This process is also known as images purge.*
* *This process is also known as clean image storage.*
* *This process is also known as garbage collection. (Correct)*

**Answer :**This process is also known as garbage collection.

**In a Kubernetes environment, a role of Restrict Policy is associated with a user A. In this way, user  A will be unable to launch a privileged container. True or False ?**

Options are :

* *False*
* *True (Correct)*

**Answer :**True

**Which command has to be executed to enable Docker client to sign an image before push to DTR ?**

Options are :

* *export TRUST\_DOCKER\_CONTENT=1*
* *export DOCKER\_CONTENT\_TRUST=1 (Correct)*
* *docker image secure*
* *docker image push --secure*

**Answer :**export DOCKER\_CONTENT\_TRUST=1

**What information does DTR Backup save ?**

Options are :

* *Scan Image results, Notary data , Certificates and keys. (Correct)*
* *Image content, Image blobs and Image Vulnerability database.*
* *Access control to repos and images. (Correct)*
* *DTR Settings, Cluster Configurations and Repository Metadata. (Correct)*

**Answer :**Scan Image results, Notary data , Certificates and keys. Access control to repos and images. DTR Settings, Cluster Configurations and Repository Metadata.

**You can install DTR on-premises or on a cloud provider. What are the requirements to install DTR? (Select all that apply)**

Options are :

*Make sure the port 80 and 443 are open on the node (Correct)*

*All nodes must be a replicated node managed by Universal Control Plan*

*All nodes must have a fixed hostname (Correct)*

*All nodes must be a worker node managed by Universal Control Plan (Correct)*

**Answer :**Make sure the port 80 and 443 are open on the node All nodes must have a fixed hostname All nodes must be a worker node managed by Universal Control Plan

**The command "docker container run -p <HOST-PORT>:<CONTAINER-PORT> <image> " is a valid command. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**The command "docker container run --detach --name webserver2 --publish 80:80 ABC:<tag> " and command "docker container run -d --name webserver2 -p 80:80 ABC:<tag>" will output the same result. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**To bind a specific port number that is being published we can use the --p option. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**Which of the following command is used to view the different options that can be used with the "logs" commands?**

Options are :

*docker logs --help*

*docker container logs help*

*docker container logs --help*

*docker container --help*

**Answer :**docker container logs --help

[Docker Certified Associate (DCA) Practice Exams Set 11](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-11)

**Which of the command can be used to see the logs of the webserver named "webserver"?**

Options are :

*docker container log webserver*

*docker container --logs webserver*

*docker container logs webserver*

*docker container --l webserver*

**Answer :**docker container logs webserver

**To display only the last few logs information we can use the --tail option. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**To display only the last 2 logs information of the webserver, we can use which of the following command?**

Options are :

*docker container logs 2 --tail webserver*

*docker logs --tail 2 webserver*

*docker container logs --tail 2 webserver*

*docker logs 2 TAIL webserver*

**Answer :**docker container logs --tail 2 webserver

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**To display only the last 3 logs information of the webserver, we can use which of the following command?**

Options are :

*docker container logs 3 --tail webserver*

*docker logs --tail 3 webserver*

*docker container logs --tail 3 webserver*

*docker logs TAIL 3 webserver*

**Answer :**docker container logs --tail 3 webserver

**If we pass a negative number or a non-integer to the "--tail" command, what will be the output?**

Options are :

*The value is set to "latest" in that case*

*The value is set to "latest 2" in that case*

*The value is set to "all" in that case*

*The value is set to "first" in that case*

**Answer :**The value is set to "all" in that case

**Which command is used to list out the different options that can be used with the command "inspect"?**

Options are :

*docker inspect --help*

*docker container --help*

*docker container inspect --help*

*docker container inspect --HELP*

**Answer :**docker container inspect --help

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**Which command is used to inspect the different states of container?**

Options are :

*docker inspect*

*docker container*

*docker container inspect*

*docker container inspect*

**Answer :**docker container inspect

**Which of the following is correct use of the "--format" command?**

Options are :

*docker inspect --format "{?{.Config.Image}}" webserver*

*docker container --format "{?{.Config.Image}}" webserver*

*docker container inspect --format "{?{.Config.Image}}" webserver*

*docker container inspect --format "{?{.Config.Image}}"*

**Answer :**docker container inspect --format "{?{.Config.Image}}" webserver

**Which of the following is correct use of the "--format" command?**

Options are :

*docker inspect --format "{?{json .Config }}" webserver*

*docker container --format "{?{json .Config }}" webserver*

*docker container inspect --format "{?{json .Config }}" webserver*

*docker container inspect --format "{?{json .Config }}"*

**Answer :**docker container inspect --format "{?{json .Config }}" webserver

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**Which of the following is a command that can be used with the command "inspect"?**

Options are :

*prep*

*preg*

*grep*

*regp*

**Answer :**grep

**Which of the following command is used for a graceful shutting down of a container?**

Options are :

*docker stop*

*docker container stop*

*docker container stop*

*docker stop container*

**Answer :**docker container stop

**Which of the following command is used to stop a running container, but it will stop the main entry point process abruptly which may lead to a damaged file system?**

Options are :

*KILL*

*stop*

*Kill*

*STOP*

**Answer :**Kill

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Which of the following command is used to kill a running container?**

Options are :

*docker kill*

*docker container*

*docker container kill*

*docker container KILL*

**Answer :**docker container kill

**Which of the following command is used to start a stopped container?**

Options are :

*docker start*

*docker container*

*docker container start*

*docker container start*

**Answer :**docker container start

**Which of the following keyword is used to start a stopped container?**

Options are :

*begin*

*fireup*

*start*

*kick off*

**Answer :**start

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**Which command is the right command to start a container and attach it to the client?**

Options are :

*docker container start webserver4*

*docker container -a webserver5*

*docker container start -a webserver3*

*docker container start a webserver6*

**Answer :**docker container start -a webserver3

**To start a container and attach it to the client use the -a option with start command. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**Which command can be used to remove a stopped container without any error?**

Options are :

*rm*

*--rm*

*remove*

*rem*

**Answer :**rm

[Docker Certified Associate (DCA) Practice Exams Set 14](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-14)

**We can remove a running container without receiving any error message. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**FALSE

**Which of the following is a valid Entrypoint command?**

Options are :

*ENTRYPOINT ["ping", "-c", "4", "localhost"]*

*ENTRYPOINT ["ping", "--c", "4", "localhost"]*

*ENTRYPOINT ["ping", "c", "4", "localhost"]*

*ENTRYPOINT ["ping", "-c"]*

**Answer :**ENTRYPOINT ["ping", "-c", "4", "localhost"]

**Which of the following is valid form of Entrypoint command?**

Options are :

*ENTRYPOINT command param1 param2*

*ENTRYPOINT ["executable", "param1", "param2"]*

*Both A and B*

*ENTRYPOINT command "param1" "param2"*

**Answer :**Both A and B

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**Which of the following is a valid command to set environment variable?**

Options are :

*docker container run --rm \ --env SOME\_VAR\_ONE=HelloWorld1 \ --env SOME\_VAR\_TWO=HelloWorld1 \ --env SOME\_VAR\_THREE=HelloWorld1 \ -it ABC: sh*

*docker container run --rm \ --env SOME\_VAR\_ONE=HelloWorld1 --env SOME\_VAR\_TWO=HelloWorld1 --env SOME\_VAR\_THREE=HelloWorld1 -it ABC: sh*

*docker container run --rm \ env SOME\_VAR\_ONE=HelloWorld1 \ env SOME\_VAR\_TWO=HelloWorld1 \ env SOME\_VAR\_THREE=HelloWorld1 \ -it ABC: sh*

*docker container run --rm \ --env SOME\_VAR\_ONE=HelloWorld1 \ --env SOME\_VAR\_TWO=HelloWorld1 \ env SOME\_VAR\_THREE=HelloWorld1 \ -it ABC: sh*

**Answer :**docker container run --rm \ --env SOME\_VAR\_ONE=HelloWorld1 \ --env SOME\_VAR\_TWO=HelloWorld1 \ --env SOME\_VAR\_THREE=HelloWorld1 \ -it ABC: sh

**We can concenate commands using unix syntax of &&. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**Is it a valid option available with container run command? --dns list**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**Is it a valid option available with container run command? --cpus decimal**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**Is it a valid option available with container run command? --device list**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**Which of the following commands can be used with the "container" commands.**

Options are :

*Wait*

*Run*

*Start*

*All*

**Answer :**All

[Docker Certified Associate (DCA) Practice Exams Set 3](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-3)

**Which of the following commands can be used with the "container" command?**

Options are :

*kill*

*Pause*

*Prune*

*All*

**Answer :**All

**Which of the following commands can be used with the "container" command?**

Options are :

*Unpause*

*Update*

*Rename*

*All*

**Answer :**All

**Which of the following commands can't be used with the "container" command?**

Options are :

*Unpause*

*Run*

*Start*

*Carry*

**Answer :**Carry

[Docker and Containers: Commands Set 3](https://chercher.tech/docker-certification/docker-and-containers-commands-set-3)

**Which command is to display the different sub-commands available with the docker image command?**

Options are :

*docker image --help*

*docker --help image*

*docker image --search*

*docker --search image*

**Answer :**docker image --help

**Which command is used to display all the local images?**

Options are :

*docker image display*

*docker ls image*

*docker image ls*

*docker image display all*

**Answer :**docker image ls

**Which of the following url is the default registry to pull an image?**

Options are :

*search.docker.com*

*google.com*

*hub.docker.com*

*docker.hub.com*

**Answer :**hub.docker.com

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**Which command is used to pull an image from a registry?**

Options are :

*docker pull image [:]*

*docker image pull [:]*

*Pull image docker*

*docker container image pull [:]*

**Answer :**docker image pull [:]

**docker image ls commad is used to list down all the images that are available locally. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**Which of the following commands can be used with the "image" command?**

Options are :

*Build*

*History*

*Import*

*All*

**Answer :**All

[Docker Certified Associate (DCA) Practice Exams Set 15](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-15)

**The command "echo $SOME\_VAR\_ONE && echo $SOME\_VAR\_TWO && echo $SOME\_VAR\_THREE" will ouput.**

Options are :

*"Variable" 3 times*

*It is a wrong command*

*"Variable" 1 times*

*Syntax error*

**Answer :**"Variable" 3 times

[Docker and Containers: Commands Set 3](https://chercher.tech/docker-certification/docker-and-containers-commands-set-3)

**Which of the following commands can be used with the "image" command?**

Options are :

*Inspect*

*Load*

*Ls*

*All*

**Answer :**All

**Which of the following commands can be used with the "image" command?**

Options are :

*Prune*

*Pull*

*Push*

*All*

**Answer :**All

**Which of the following commands can't be used with the "image" command?**

Options are :

*rm*

*Save*

*Tag*

*export*

**Answer :**export

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**Which of the following commands can't be used with the "image" command?**

Options are :

*Load*

*Prune*

*Pull*

*untag*

**Answer :**untag

**Which command is used to push an image or a repository to a registry?**

Options are :

*docker image push [OPTIONS] NAME[:TAG]*

*docker push [OPTIONS] NAME[:TAG]*

*docker image push [OPTIONS]*

*docker image --push [OPTIONS] NAME[:TAG]*

**Answer :**docker image push [OPTIONS] NAME[:TAG]

**Which of the command is used to delete the local image from your docker host machine?**

Options are :

*docker image --rm [OPTIONS] IMAGE [IMAGENAME]*

*docker image rm [OPTIONS] IMAGE [IMAGENAME]*

*docker --image rm [OPTIONS] IMAGE [IMAGENAME]*

*docker rm image [OPTIONS] IMAGE [IMAGENAME]*

**Answer :**docker image rm [OPTIONS] IMAGE [IMAGENAME]

[Docker Certified Associate (DCA) Practice Exams Set 6](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-6)

**Which command is used to view the image in your docker host machine?**

Options are :

*docker image --ls*

*docker image ls*

*docker image LS*

*docker img ls*

**Answer :**docker image ls

**Which command is used to stop the container?**

Options are :

*docker container --stop webserver*

*docker container stop webserver*

*docker --container stop webserver*

*docker container webserver*

**Answer :**docker container stop webserver

**Which of the following command is used to build an image from Dockerfile?**

Options are :

*docker build [OPTIONS] PATH |*

*docker image build [OPTIONS] PATH | URL |*

*docker image --build [OPTIONS] PATH | URL |*

*docker --image build [OPTIONS] PATH*

**Answer :**docker image build [OPTIONS] PATH | URL |

[Docker Certified Associate (DCA) Practice Exams Set 15](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-15)

**Which command can be used to show the history of an image?**

Options are :

*docker image history [OPTIONS]*

*docker image history [OPTIONS] IMAGE*

*docker history [OPTIONS] IMAGE*

*docker image history*

**Answer :**docker image history [OPTIONS] IMAGE

**Which command is used to view the different options available with the command "history"?**

Options are :

*docker image history help*

*docker image history --help*

*docker history --help*

*docker img history --help*

**Answer :**docker image history --help

**Which command is used to view the history of our existing images in host machine?**

Options are :

*docker image --history :*

*docker image history :*

*docker --image history :*

*docker image :*

**Answer :**docker image history :

[Docker Certified Associate (DCA) Practice Exams Set 11](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-11)

**Which of the following commands can't be used with the "container" command?**

Options are :

*Unpause*

*Update*

*Rename*

*Import*

**Answer :**Import

**Which command is used to set an environment variables that would be used by container?**

Options are :

*--env*

*-ee*

*-e*

*-env*

**Answer :**--env

**The command "mkdir ~/demo, cd ~/demo, cp ~/demo-one/Dockerfile, Dockerfile ls -al" will**

Options are :

*Create a new directory demo inside the home directory and copy the existing Dockerfile from docker-one directory*

*Create a new directory demo inside the home directory and move to that directory and copy the existing Dockerfile from docker-one directory*

*Create a new directory demo inside the home directory and move to that directory*

*Create a new directory demo and move to that directory and copy the existing Dockerfile from docker-one directory*

**Answer :**Create a new directory demo inside the home directory and move to that directory and copy the existing Dockerfile from docker-one directory

[Docker Certified Associate (DCA) Practice Exams Set 5](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-5)

**Which of the following command will start the container, execute the command and then exit?**

Options are :

*docker container run  echo "Output!" exit*

*docker container run  execute echo "Output!"*

*docker container run  echo "Output!"*

*docker run container  echo "Output!"*

**Answer :**docker container run  echo "Output!"

**container run <image<:<tag> ls will list the directory of the image. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**docker container run <image>:<tag> ps -ef will list the process of the <Image> linux. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

[Docker Certified Associate (DCA) Practice Exams Set 16](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-16)

**What will be the output of the command - docker container run <image> echo "Hello, World!"**

Options are :

*Hello, World*

*echo*

*Hello, World*

*Hello, World*

**Answer :**Hello, World

**Which of the following command is used to list the different options that could be used with the "container ls" commands?**

Options are :

*docker container --help*

*docker container ls --help*

*docker ls --help*

*docker container ls --Search*

**Answer :**docker container ls --help

**Which of the following command is used to list the all the containers including the stopped ones?**

Options are :

*docker image ls -a*

*docker container ls -a*

*docker container image ls -a*

*docker container ls -all*

**Answer :**docker container ls -a

[Docker Certified Associate (DCA) Practice Exams Set 14](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-14)

**Which command is used to view only the containers id's ?**

Options are :

*-q*

*-l*

*-lq*

*-ql*

**Answer :**-q

**Which command is used to view only the last container started?**

Options are :

*-q*

*-l*

*-lq*

*-ql*

**Answer :**-l

**Which command is used to view the id of the last container started?**

Options are :

*-q*

*-l*

*-lq*

*-ql*

**Answer :**-lq

[Docker Certified Associate (DCA) Practice Exams Set 10](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-10)

**We can also combine the -q with -a option (-aq) to display all the container id's. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**Which of the following is a valid command to list the docker containers?**

Options are :

*docker container ls -a*

*docker container ls -aq*

*docker container ls -l*

*All*

**Answer :**All

**Which of the following is a valid command to list the docker containers?**

Options are :

*docker container ls -a*

*docker container ls -aq*

*docker container ls -lq*

*All*

**Answer :**All

[Docker Certified Associate (DCA) Practice Exams Set 2](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-2)

**Which of the following is a valid command to list the docker containers?**

Options are :

*docker container ls -a*

*docker container ls -aq*

*docker container ls -q*

*All*

**Answer :**All

**Which of the following is a valid command to list and filter on the docker containers?**

Options are :

*docker container --ls filter key=value*

*docker container ls --filter keys=value*

*docker container ls --filter key=value*

*docker container ls filter key=value*

**Answer :**docker container ls --filter key=value

**Which of the following is a valid command to list and filter on the docker containers?**

Options are :

*docker container ls --filter status=exit*

*docker container ls --filter status=exited*

*docker container ls filter status=exited*

*docker container ls filter --status=exited*

**Answer :**docker container ls --filter status=exited

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Which of the following is a valid command to list and filter on the docker containers?**

Options are :

*docker container ls --filter images=*

*docker container ls --filter image=*

*docker container ls filter image=*

*docker container ls filter --image=*

**Answer :**docker container ls --filter image=

**Which of the following is a valid command to list and filter on the docker containers?**

Options are :

*docker container ls filter command=*

*docker container ls --filter command=*

*docker container ls --filter cmd=*

*docker container --ls filter cmd=*

**Answer :**docker container ls --filter command=

**Which of the following command can be used to pull the ABC, a fictitious name, web server image?**

Options are :

*docker pull image ABC:*

*docker image pull ABC:*

*docker image pull ABC*

*docker image ABC: pull*

**Answer :**docker image pull ABC:

[Docker and Containers: Commands Set 2](https://chercher.tech/docker-certification/docker-and-containers-commands-set-2)

**Which command can be used to publish the container port that is exposed inside container to a random port on host?**

Options are :

*--nm*

*--name*

*--n*

*--default*

**Answer :**--name

**Which command can be used to name the container rather than using the default name generated by docker engine for container?**

Options are :

*--Port*

*--P*

*--p*

*--Pp*

**Answer :**--P

**What output the command "docker container run --detach --name webserver -P ABC:<tag> " show?**

Options are :

*The command will name the container as webserver, and publish the container port that is exposed inside container image ABC:.*

*The command will keep the container running in background, name the container as webserver, and publish the container port that is exposed inside container image ABC:.*

*The command will keep the container running in background, name the container as webserver, and unpublish the container port that is exposed inside container image ABC:.*

*The command will keep the container running in background, name the container as ABC:, and publish the container port that is exposed inside container image webserver.*

**Answer :**The command will keep the container running in background, name the container as webserver, and publish the container port that is exposed inside container image ABC:.

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**Which of the following command is used to view the publish port?**

Options are :

*docker container --ls*

*docker container ls*

*docker container LS*

*docker container --LS*

**Answer :**docker container ls

**To bind a specific port number that is being published we can use the --publish. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**We cant add a collaborator to our repository on docker hub. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**FALSE

[Docker Certified Associate (DCA) Practice Exams Set 11](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-11)

**While trying to remove a running container what message do we get?**

Options are :

*" Container is removed successfully"*

*" Container is removed partially"*

*"You cant remove a running container"*

*"Container is crashed"*

**Answer :**"You cant remove a running container"

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**Which command can be used to remove an existing container?**

Options are :

*-f*

*-force*

*-ff*

*both a and b*

**Answer :**both a and b

**Is it possible to pass the output of one docker command to another docker command. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**Which symbol can be used to pass the output of one docker command to another docker command?**

Options are :

*$*

*$$*

*#*

*&*

**Answer :**$

[Docker Certified Associate (DCA) Practice Exams Set 1](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-1)

**Which of the command can be used to remove all the containers running or stopped using a single command?**

Options are :

*docker container rm -f $(docker container ls -aq)*

*docker container rm -f &(docker container ls -aq)*

*docker container rm $(docker container ls -aq)*

*docker container rm &(docker container ls -aq)*

**Answer :**docker container rm -f $(docker container ls -aq)

**What is the output of the command "docker container run --detach --rm --name webserver --publish 80:80 ABC:<TAG>?**

Options are :

*create a new container that will automatically remove the container when it is stopped.*

*create a new container that will automatically remove the container when it is crashed.*

*create a new container that will automatically remove the container when it is to be updated.*

*create a new container that will automatically remove the container when it is pinged.*

**Answer :**create a new container that will automatically remove the container when it is stopped.

**To bind mount the app directory to our web server application we can use the --volume command. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**To bind mount the app directory to our web server application we can use the -v command. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**To bind mount the app directory to our web server application we can use the --vol comand. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**FALSE

**What command is used to see a host of commands we can use with volume?**

Options are :

*docker volume --help*

*docker volume -help*

*docker vol --help*

*docker -v --help*

**Answer :**docker volume --help

**Which command is used to create a volume?**

Options are :

*docker volume create docker*

*docker volume --create docker*

*docker create docker*

*docker volume create*

**Answer :**docker volume create docker

**Which command is used to list the volumes created?**

Options are :

*docker volume ls*

*docker volume --ls*

*docker volume -ls*

*docker volume LS*

**Answer :**docker volume ls

**Which command is used to inspect the volume?**

Options are :

*docker volume inspect docker*

*docker vol inspect docker*

*docker volume inspect*

*docker volume --inspect docker*

**Answer :**docker volume inspect docker

[Docker Certified Associate (DCA) Practice Exams Set 9](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-9)

**Which command is used to see the different network options?**

Options are :

*docker network --help*

*docker network help*

*docker network --search*

*docker network --find*

**Answer :**docker network --help

**Which command is used to create a new network using the bridge driver?**

Options are :

*docker network create --driver bridge*

*docker network --driver bridge*

*docker network --create --driver bridge*

*docker network create --driver --bridge*

**Answer :**docker network create --driver bridge

**Which command is used to see the list of networks available?**

Options are :

*docker network ls*

*docker network --ls*

*docker network LS*

*docker --network ls*

**Answer :**docker network ls

[Docker Certified Associate (DCA) Practice Exams Set 4](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-4)

**We can't connect the existing container to a network. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**FALSE

**Which of the following command can be used to connect the existing container to a network?**

Options are :

*docker network connect*

*docker connect network*

*docker network*

*docker net connect*

**Answer :**docker net connect

**Which commad can be used to inspect a network?**

Options are :

*docker network inspect*

*docker inspect*

*docker network inspect*

*docker network --inspect*

**Answer :**docker network inspect

[Docker Certified Associate (DCA) Practice Exams Set 7](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-7)

**Which of the following command is used to disconnect an existing container from a network?**

Options are :

*docker network disconnect*

*docker network disc*

*docker network --d*

*docker network disconnect*

**Answer :**docker network disconnect

**Which command is used to remove a network?**

Options are :

*network rm*

*network --rm*

*network -rm*

*network --remove*

**Answer :**network rm

**Which command is used to know the options available with the "commit" command?**

Options are :

*docker container commit --help*

*docker commit --help*

*docker container --help*

*docker --help*

**Answer :**docker container commit --help

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**Which command is used to commit changes and create a new image from a container's changes?**

Options are :

*docker container commit [OPTIONS] CONTAINER [REPOSITORY[:TAG]]*

*docker container CONTAINER [REPOSITORY[:TAG]]*

*docker container [OPTIONS] CONTAINER [REPOSITORY[:TAG]]*

*docker container commit [OPTIONS] CONTAINER*

**Answer :**docker container commit [OPTIONS] CONTAINER [REPOSITORY[:TAG]]

**Which command is used to set an environment variables that would be used by container?**

Options are :

*-e*

*-ee*

*-e*

*-env*

**Answer :**-e

**To set multiple environment variables you must use multiple commands. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**FALSE

[Docker Certified Associate (DCA) Practice Exams Set 12](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-12)

**Which of the following is a valid command to set environment variable?**

Options are :

*docker container run --rm --env SOME\_VAR=Helloword -it ABC: sh*

*docker container --rm --env SOME\_VAR=Helloword -it ABC: sh*

*docker container run --rm -env SOME\_VAR=Helloword -it ABC: sh*

*docker container run --rm env SOME\_VAR=Helloword -it ABC: sh*

**Answer :**docker container run --rm --env SOME\_VAR=Helloword -it ABC: sh

**Which command is used to list the different flags available with the "search" command?**

Options are :

*docker search --help*

*docker find --help*

*docker list --help*

*Search docker --help*

**Answer :**docker search --help

**Which command is used to search for an image using the docker cli?**

Options are :

*docker search*

*docker find*

*docker list*

*search docker*

**Answer :**docker search

[Docker Certified Associate (DCA) Practice Exams Set 13](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-13)

**The --no-trunc flag is used to display the non-truncated description. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**The --limit flag is used to display the maximum number of search result. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**Which of the following is the default value of --limit flag?**

Options are :

*100*

*25*

*15*

*35*

**Answer :**25

[Docker Certified Associate (DCA) Practice Exams Set 10](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-10)

**Which of the following is the range value of --limit flag?**

Options are :

*1 to 100*

*25 to 100*

*15 to 100*

*0 to 99*

**Answer :**1 to 100

**Which of the following is a best and precise "search" command?**

Options are :

*docker search --no-trunc --limit 10*

*docker search --no-trunc --limit 101*

*docker search --no-trunc --limit 10*

*search docker --no-trunc --limit 10*

**Answer :**docker search --no-trunc --limit 10

**Which of the following --format flag can be used to print the output table with tab separated columns based on a given input command condition?**

Options are :

*docker search --format "table {?{.Name}}\tab{?{.IsAutomated}}\tab{?{.IsOfficial}}\tab{?{.StarCount}}"*

*docker search --format "table {?{.Name}}\t{?{.IsAutomated}}\t{?{.IsOfficial}}\t{?{.StarCount}}"*

*docker search --format "table {?{.Name}}\n{?{.IsAutomated}}\n{?{.IsOfficial}}\n{?{.StarCount}}"*

*docker search --format "table {?{.Name}}{?{.IsAutomated}}{?{.IsOfficial}}{?{.StarCount}}"*

**Answer :**docker search --format "table {?{.Name}}\t{?{.IsAutomated}}\t{?{.IsOfficial}}\t{?{.StarCount}}"

[Docker Certified Associate (DCA) Practice Exams Set 8](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-8)

**The --filter flag can be used to filter the search result. This statement is**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**Which filter command will output 10 entries, images having 6 star ratings, and OK labelled automation?**

Options are :

*docker find --filter stars=6 --filter is-automated=true --limit 10*

*docker search --filter stars=6 --filter is-automated=true --limit 10*

*docker search --filter stars=6 --filter is-automated=true --limit*

*docker search --filter stars=6 --filter is-automated=false --limit 10*

**Answer :**docker search --filter stars=6 --filter is-automated=true --limit 10

**What command can be used to view the different sub-commands that could be used with container commands?**

Options are :

*docker --help container*

*docker container --help*

*docker container --search*

*docker --search container*

**Answer :**docker container --help

[Docker Certified Associate (DCA) Practice Exams Set 15](https://chercher.tech/docker-certification/docker-certified-associate-dca-certification-practice-exams-set-15)

**What command can be used to view the different options available to work with "run" command?**

Options are :

*docker container run --search*

*docker run container --help*

*docker container run --help*

*docker --search container run*

**Answer :**docker container run --help

**The --attach list option available with container "run" command is a valid option available? --attach list**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

**Is it a valid option available with container run command? --detach list**

Options are :

*TRUE*

*FALSE*

**Answer :**TRUE

Question: 1

Which command will use servers in a local inventory called invent.local

Choose the correct answer:

A. ansible servers -m ping

B. ansible all -m ping

C. ansible all -m ping -i invent.local

D. ansible all -m ping -f invent.local

Answer: C

Question: 2

You are taking over for someone while they are away on leave. You need to run a playbook

against over 600 servers. When you run the playbook you notice that only 10 servers are worked

on at any one time. How would you fix this so that you can have 50 servers worked on at the

same time?

Choose the correct answer:

A. Edit the /etc/ansible/ansible.cfg file and adjust the 'poll\_interval' parameter.

B. Edit the /etc/ansible/hosts file and adjust the 'forks' parameter.

C. Edit the /etc/ansible/servers file and adjust the 'servers' parameter

D. Edit the /etc/ansible/ansible.cfg file and adjust the 'forks' parameter.

Answer: D

Explanation:

The forks parameter adjust the parallelism of the ansible commands.

Question: 3

Ansible expects templates to use json format.

Choose the correct answer:

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A. True

B. False

Answer: B

Explanation:

They don't use json format.

Question: 4

A template has a maximum of 10 variables.

Choose the correct answer:

A. True

B. False

Answer: B

Question: 5

Will this command use servers in a local inventory called invent.local?

ansible all -m ping -i invent.local

Choose the correct answer:

A. True

B. False

Answer: A

Question: 6

Is this the correct format for an ansible ad-hoc command?

ansible servers -m ping

Choose the correct answer:

A. True

B. False

Answer: A

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Question: 7

A template has a maximum of 10 variables.

Choose the correct answer:

A. True

B. False

Answer: B

Explanation:

The No is much higher.

Question: 8

The command ansible-galaxy init wont create the file structure you need for roles.

Choose the correct answer:

A. True

B. False

Answer: B

Explanation:

It will create the correct structure for you.

Question: 9

The correct structure for use with roles has the various portions of the role under a central

folder.

e.g if the role is called apache then the location of the tasks would be the following:

apache - tasks - main.yml

Choose the correct answer:

A. True

B. False

Answer: A

Explanation:

This is the format for the file system used for roles: project/ ├── defaults │ └── main.yml ├──

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files ├── handlers │ └── main.yml ├── meta │ └── main.yml ├── README.md ├── tasks │

└── main.yml ├── templates ├── tests │ ├── inventory │ └── test.yml └── vars └──

main.yml

Question: 10

Which of these are valid as the first thing in a playbook?

Choose the 2 correct answers:

A. ---

B. - tasks: name=

C. --- # this is a comment

D. - hosts: local

Answer: AC

Question: 11

You can change the no of forks ansible uses from the /etc/ansible/ansible.cfg file.

Choose the correct answer:

A. True

B. False

Answer: A

Explanation:

/etc/ansible/ansible.cfg file is the default location of the configuration file.

Question: 12

The following command can be used to filter facts to pull out the ip address for the target host.

ansible local -m setup -a "filter=ansible\_default\_ipv4"

Choose the correct answer:

A. True

B. False

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Answer: A

Question: 13

A template can only use 1 variable

Choose the correct answer:

A. True

B. False

Answer: B

Explanation:

You can use multiple variables in templates

Question: 14

The following is allowed in a playbook.

---

- tasks: yaml: name=yum.

- hosts: local

Choose the correct answer:

A. True

B. False

Answer: B

Explanation:

Order is --- - hosts: local must be first.

Question: 15

If you create your own ansible facts file, it can be executable.

Choose the correct answer:

A. True

B. False

Answer: A

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Ansible tower can be used to manage your ansible systems.

Choose the correct answer:

A. True

B. False

Answer: A

Question: 76

There is a 10 user trial available.

Choose the correct answer:

A. True

B. False

Answer: A

Lab1. Ad-hoc Ansible Commands (Number One)

Task:

1. Use an ansible ad-hoc command, check the connectivity of your servers.

2. Use an ad-hoc ansible command, find the free space of your servers.

3. Use an ad-hoc ansible command, find out the memory usage of your servers.

4. Do an ls -l on the targets /var/log/messages file.

5. Tail the contents of the targets /var/log/messages file.

Solution:

1. ansible all -m ping

2. ansible all -a "/bin/df -h"

3. ansible all -a "/usr/bin/free"

4. ansible all -a "ls -l /var/log/messages"

5. ansible local -b -a "tail /var/log/messages"

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Lab2. Ad-Hoc Ansible Commands (Number Two)

Task:

1. Use the ad-hoc command to make sure php is installed.

2. Use the ad-hoc command to make sure that php is installed and is the latest version.

3. Use the ad-hoc command to make sure that httpd is installed.

4. Use the ad-hoc command to remove httpd from the servers.

Solution:

1. ansible all -b -m yum -a 'name=php state=present'

2. ansible all -b -m yum -a 'name=php state=latest'

3. ansible all -b -m yum -a 'name=httpd state=latest'

4. ansible all -b -m yum -a 'name=httpd state=absent'

Lab3. Static Inventories

Task:

1. Add a new group to your default ansible host file. call the group [ec2]

2. Add a new host to the new group you created.

3. Add a variable to a new host entry in the /etc/ansible/hosts file. Add the following.

localhost http\_port=80 maxRequestsPerChild=808

4. Check to see if maxRequestsPerChild is pulled out with an ad-hoc command.

5. Create a local host file and put a target group and then a host into it. Then ping it with an

ad-hoc command.

Solution:

1. Edit the /etc/ansible/hosts file. Add a group.

2. Edit the /etc/ansible/hosts file. Add a user under the group you created.

3. Edit the /etc/ansible/hosts file. Find a host. if we add a variable called

maxRequestsPerChild to the host it would look like this.

host1 maxRequestsPerChild=808

4. ansible ec2 -m shell -a "echo {{ maxRequestsPerChild }}"

5. Edit a local file. It could be called anything. Lets call it myhosts. Inside the file it would

have a host like the following.

[mygroup]

myusername1.mylabserver.com