Docker Certified Associate Test Review Questions

Set 1 - Image Creation

Question 1
Which of the following is NOT how to create an efficient image via a Dockerfile?

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

Question 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?

A   ONBUILD
B   VOLUME
C   RUN
D   WORKDIR

Question 3
What docker image prune command does?

A   Remove unused images
B   Display detailed information on one or more images
C   Remove one or more images
D   Show the history of an image

Question 4
What Dockerfile option EXPOSE does?

A   Expose defaults for an executing container
B   Adds metadata to an image
C   Informs Docker that the container listens on the specified network ports at runtime
D   Label a container that will run as an executable

Question 5
Dockerfile option EXPOSE publish the port to external systems. True or false?

A   True
B   False

Question 6
Which of the Dockerfile options initializes a new build stage and sets the base image for subsequent instructions?
A   CMD
B   FROM
C   RUN
D   ONBUILD

Question 7
What Dockerfile option LABEL does?

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

Question 8
Which of the following docker image commands display detailed information on one or more images?

A   docker image history
B   docker image ls
C   docker image detail
D   docker image inspect

Question 9
Which of the Dockerfile options executes any commands in a new layer on top of the current image and commit the results?

A   ONBUILD
B   CMD
C   FROM
D   RUN

Question 10
What does docker image rm command do?

A   Show the history of an image
B   Display detailed information on one or more images
C   Remove unused images
D   Remove one or more images

Set 2 - Image Management and Registry

Question 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?

A   True
B   False

Question 2
What is the docker command to remove one or more images?

A   docker delete
B   docker image delete
C   docker remove
D   docker image rm

Question 3
Which of the following is NOT a valid way to tag a Docker image?

A   Tag an image referenced by Name
B   Tag an image referenced by image ID
C   Tag an image referenced by user ID
D   Tag an image referenced by Name and Tag

Question 4
Which of the following is the correct command to tag an image?

A   docker build tag SOURCE_IMAGE[:TAG] TARGET_IMAGE[:TAG]
B   docker tag SOURCE_IMAGE[:TAG] TARGET_IMAGE[:TAG]
C   docker tag TARGET_IMAGE[:TAG] SOURCE_IMAGE[:TAG]
D   docker tag image SOURCE_IMAGE[:TAG] TARGET_IMAGE[:TAG]

Question 5
What is the image storage solution that is part of Docker Enterprise Edition called?

A   Docker Registry
B   Universal Control Plane
C   Docker Trusted Registry
D   Docker Hub

Question 6
Which of the following is the correct command to store an image to a registry?

A   docker store [OPTIONS] NAME[:TAG]
B   docker upload [OPTIONS] NAME[:TAG]
C   docker commit [OPTIONS] NAME[:TAG]
D   docker push [OPTIONS] NAME[:TAG]

Question 7
What is the docker command to pull an image or a repository from a registry?

A   docker checkout
B   docker build
C   docker deploy
D   docker pull

Question 8
Each container shares common writeable container layer. True or false?

A   False
B   True

Question 9
What is the docker command for displaying layers of a Docker image?

A   docker image layers
B   docker info
C   docker layers
D   docker history

Question 10
Which of the following statements is incorrect?

A   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'.
B   Copy-on-write is a Docker strategy of sharing and copying files for maximum efficiency.
C   When a container is deleted, the writable layer is persisted.
D   The column 'size' of docker ps -s output shows the amount of data that is used for the writable layer of each container.

Orchestration Part 1

Question 1
Which of the following is the docker command to enable autolock on an existing swarm cluster?

A   docker swarm autolock
B   docker swarm update --autolock-swarm=true
C   docker swarm update --autolock=true
D   docker swarm --autolock=true

Question 2
What is the difference between a replicated and a global service?
A   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.
B   Replicated service can only be deployed on manager node. Global service can be deployed on both manager and worker node.
C   Number of identical tasks can be specified for a replicated service. There is no pre-specified number of tasks for global service.
D   Replicated service runs one task on every node. Global service runs multiple task on every node.

Question 3
What is the default format of docker inspect output?
A   yaml
B   html
C   xml
D   json

Question 4
What are the two types of docker swarm services?

A   replicated and local services
B   local and global services
C   replicated and global services
D   distributed and replicated services

Question 5
What is the function of docker inspect command?

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

Orchestration Part 2

Question 1
What is the docker command to add or update a placement constraint?

A   docker service update --placement-constraint-add
B   docker service update --placement-pref-add
C   docker service update --pref-add
D   docker service update --constraint-add

Question 2
What is the docker command to update an existing service?

A   docker service change
B   docker service update
C   docker service modify
D   docker service config

Question 3
What is the docker command to add or update a node label?

A   docker node modify --set-label
B   docker node update --label-add
C   docker node update --set-label
D   docker node add --label

Question 4
What is the docker command to roll back to the previous version of a service?

A   docker service update --rollback-version
B   docker service update --rollback
C   docker service --rollback-version
D   docker service --rollback

Question 5
What is the docker command to add or update a mount on a service?

A   docker service --add-update-mount
B   docker service --mount-volume
C   docker service update --mount-add
D   docker service set --add-update-mount

Question 6
What is the docker command to add a placement preference?

A   docker service update --placement-pref-add
B   docker service update --constraint-add
C   docker service update --placement-constraint-add
D   docker service update --pref-add

Question 7
Which of the following is NOT true about Raft (docker consensus algorithm)?

A   If a quorum is not reached, the system will not process any more requests to schedule additional tasks
B   Raft tolerates up to (N-2)/2 failures
C   Raft requires a majority or quorum of (N/2) + 1 members
D   If a quorum is not reached, the existing tasks will keep running

Question 8
What is the docker command to increase number of replicas?

A   docker service replica
B   docker service increase
C   docker service build
D   docker service scale

Question 9
What is the docker command to add a network to a service?

A   docker service update --network-add
B   docker service modify --add-network
C   docker service set --add-network
D   docker service add-network

Question 10
What is the docker command to add or update a published port?
A   docker service set --add-port
B   docker service update --publish-add
C   docker service update --publish-port
D   docker service modify --add-update-port

Installation and Configuration Part 1

Question 1
What is the correct order to backup Docker EE components?

A   Back up swarm, DTR, then UCP
B   Back up swarm, UCP, then DTR
C   Back up DTR, UCP, then swarm
D   Back up UCP, swarm, then DTR

Question 2
What is the docker command to find the current logging driver for a running container?

A   docker info
B   docker stats
C   docker config
D   docker inspect

Question 3
What is the correct order to upgrade a Docker cluster?

A   Upgrade engine and kernel, DTR, and then UCP
B   Upgrade DTR, UCP, then engine and kernel
C   Upgrade engine and kernel, UCP, and then DTR
D   Upgrade UCP, DTR, then engine and kernel

Question 4
What is the recommended approach to set storage driver?

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

Question 5
What is the docker command to setup a swarm?

A   docker swarm create
B   docker create swarm
C   docker swarm init
D   docker init swarm

Question 6
What are the requirements to install Docker Trusted Registry (DTR)? (Select all that apply)

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

Question 7
What is the docker command to see the storage driver Docker is currently using?

A   docker config
B   docker inspect
C   docker stats
D   docker info

Question 8
What is the docker command to backup the UCP?

A   docker backup ucp
B   docker/ucp backup

Question 9
How to configure the default logging driver?

A   Use --log-driver flag
B   Set the "log-driver" option in the daemon.json file

Question 10
What is the docker command to add a node to a swarm?

A   docker join swarm
B   docker swarm join
C   docker swarm add-node
D   docker swarm create-node

Installation and Configuration Part 2

Question 1
Which of the following items need to be considered before installing Docker Enterprise?

A   Docker Engine, DTR, and UCP version compatibility
B   Disk space
C   Time Synchronization
D   All of the options
E   Network ports

Question 2
Which of the following tool to use to create users and teams?

A   Docker Machine
B   Docker Compose
C   Universal Control Plane (UCP)
D   Docker Trusted Registry (DTR)

Question 3
You can monitor the status of UCP by using the web UI or the CLI. True or false?

A   True
B   False

Question 4
What is the docker command to see container logs?

A   docker fetch-logs
B   docker debug
C   docker logs
D   docker dump-logs

Question 5
What is the endpoint that we can use to check the health of a single UCP manager node?

A   https:///_ping
B   https:///_health
C   https:///_heartbeat
D   https:///_status

Question 6
Which of the following is how to configure the Docker daemon to start on boot? (select two)

A   Use upstart for Ubuntu 14.10 and below
B   Use systemd for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher)
C   Use startup for most current Linux distributions (RHEL, CentOS, Fedora, Ubuntu 16.04 and higher)
D   Use crond for Ubuntu 14.10 and below

Question 1
What is the docker command to connect a running container to an existing user-defined bridge?

A   docker network connect
B   docker network attach
C   docker network join
D   docker connect network

Question 2
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   Overlay networks
B   Host networks
C   User-defined bridge networks
D   Macvlan networks

Question 3
Which network driver type is best when you need multiple containers to communicate on the same Docker host?

A   User-defined bridge networks
B   Host networks
C   Overlay networks
D   Macvlan networks

Question 4
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?

A   Overlay networks
B   Macvlan networks
C   User-defined bridge networks
D   Host networks

Question 5
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?

A   User-defined bridge networks
B   Host networks
C   Overlay networks
D   Macvlan networks

Question 6
What is the docker command to create a bridge network?

A   docker network create
B   docker network deploy
C   docker create network
D   docker network add

Question 7
Which of the following statements is false?

A   Linked containers on the default bridge network share environment variables
B   Containers can NOT be attached and detached from user-defined networks on the fly
C   Each user-defined network creates a configurable bridge
D   User-defined bridges provide automatic DNS resolution between containers
E   User-defined bridges provide better isolation and interoperability between containerized applications

Question 8
What is the docker command to display detailed information on one or more networks?

A   docker network inspect
B   docker inspect network
C   docker network status
D   docker network display

Question 9
What is the docker run option to publish a port so that an application is accesible externally?

A   docker run --expose
B   docker run --open-port
C   docker run --publish-port
D   docker run --publish

Question 10
Which of the following docker command can be used to find out all the ports mapped? (select three)

A   docker port
B   docker ps
C   docker inspect
D   docker network ls

Networking Part 2

Question 1
What is the command to set DNS server for all Docker containers?

A   dockerd --dns IP_ADDRESS
B   dockerd --dns-server IP_ADDRESS
C   dockerd --dns-update IP_ADDRESS
D   dockerd --set-dns IP_ADDRESS

Question 2
What is the docker command to create a container with custom DNS server(s)?

A   docker container create --add-dns=IP_ADDRESS
B   docker container create --set-dns=IP_ADDRESS
C   docker container create --dns=IP_ADDRESS
D   docker container create --custom-dns=IP_ADDRESS

Question 3
Which of the following is NOT one of the 3 main Docker Container Network Model components?

A   Sandbox
B   Network
C   Endpoint
D   Routing

Question 4
Publishing a service's port using the routing mesh makes the service accessible at the published port on every swarm node. True or false?

A   False
B   True

Question 5
What type of network is ingress network?

A   overlay network
B   bridge network
C   macvlan network
D   host network

Security

Question 1
What is the command that need to be executed to sign an image before pushing it to repository?

A   export DOCKER_CONTENT_TRUST=1
B   export SIGN_DOCKER_IMAGE=1
C   export TRUST_DOCKER_CONTENT=1
D   export TRUST_DOCKER_IMAGE=1

Question 2
Where do you create Docker Role Based Access Controls (RBAC)?

A   Docker Machine
B   Docker Trusted Registry
C   Docker Compose
D   Universal Control Plane

Question 3
What is the difference between UCP workers and managers?

A   ucp-agent service automatically starts serving all UCP components in worker node, and only a proxy service in manager node
B   ucp-agent service automatically starts serving all UCP components in manager node, and only a proxy service in worker node

Question 4
What are the steps needed to sign images in a way that UCP trusts them? (select three)

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

Question 5
Docker security scan can be started by all users including those with read-only access. True or false?

A   False
B   True

Question 6
Where is the option to integrate Docker Enterprise with LDAP?

A   Docker Compose
B   Docker Trusted Registry
C   Universal Control Plane
D   Docker Machine

Question 7
Which of the followings are Docker Engine Security features? (select all that apply)

A   You can configure Docker's trust features so that your users can push and pull trusted images
B   You can protect the Docker daemon socket and ensure only trusted Docker client connections
C   You can use certificate-based client-server authentication to verify a Docker daemon has the rights to access images on a registry
D   You can configure secure computing mode (Seccomp) policies to secure system calls in a container

Question 8
Docker security scan result is available in both UCP and DTR. True or false?

A   True
B   False

Question 9
What are the two types of UCP client bundles?

A   Ops client bundles and dev client bundles
B   Admin user certificate bundles and user certificate bundles
C   Docker CLI bundles and Docker web UI bundles
D   Docker UCP client bundles and DTR client bundles

Question 10
What is a grant made up of in Docker's Role Based Access Controls (RBAC)? (select three)

A   Resource collection
B   Subject
C   Certificate
D   Role