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Abstract

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Docker certified associate

Exam Questions

**Question 1**

Your organization has a centralized logging solution, such as Splunk.

Will this configure a Docker container to export container logs to the logging solution?

Solution: *docker logs <container-id>*

1. Yes
2. **No**

**Question 2**

Two pods bear the same label, app: dev.

Will a label selector matching app: dev match both of these pods?

1. Yes, as long as all the containers in those pods are passing their livenessProbes and readinessProbes.
2. Yes, if both pods were pre-existing when the label selector was declared.
3. Yes, if the pods are in the same Kubernetes namespace as the object bearing the label selector
4. **Yes, if the pods are in the same Kubernetes namespace as the object bearing the label selector and both pods were pre-existing when the label selector was declared.**

**Question 3**

Which statement is correct about cluster management in Docker Enterprise Edition 3.x?

1. **Clusters can contain Windows 10 and Windows Server 2016 only.**
2. Clusters can contain Linux, Windows Server 2016 and 2019, and Linux on IBM z Systems.\*\*\*
3. Clusters can contain Linux only.
4. Clusters can contain Linux and Windows Server 2008 R2 only.

**Question 4**

Will this command mount the host's '/data' directory to the ubuntu container in read-only mode?

Solution: *'docker run -v /data:/mydata --mode read-only ubuntu'*

1. **Yes**
2. No

**Question 5**

Will this command mount the host's '/data' directory to the ubuntu container in read-only mode?

Solution: *'docker run --volume /data:/mydata:ro ubuntu'*

1. Yes
2. **No**

**Question 6**

Does this command display all the pods in the cluster that are labelled as 'env: development'?

Solution: *'kubectl get pods -I env=development'*

1. **Yes**
2. No

**Question 7**

Does this command display all the pods in the cluster that are labelled as 'env: development'?

Solution: 'kubectl get pods --all-namespaces -label env=development'

1. Yes
2. **No**

**Question 8**

Does this command display all the pods in the cluster that are labelled as 'env: development'?

Solution: 'kubectl get pods --all-namespaces -I env=development'

1. **Yes**
2. No

**Question 9**

Will this command display a list of volumes for a specific container?

Solution: 'docker container inspect nginx'

1. **Yes**
2. No

**Question 10**

A user attempts to set the system time from inside a Docker container are unsuccessful. Could this be blocking this operation?

Solution: inter-process communication

1. Yes
2. **No**

**Question 11**

Some Docker images take time to build through a Continuous Integration environment. You want to speed up builds and take advantage of build caching.

Where should the most frequently changed part of a Docker image be placed in a Dockerfile?

1. **at the bottom of the Dockerfile**
2. after the FROM directive
3. at the top of the Dockerfile
4. in the ENTRYPOINT directive

**Question 12**

You set up an automatic pruning policy on a DTR repository to prune all images using Apache licenses. What effect does this have on images in this repository?

1. **Matching images are untagged once they are older than the pruning threshold set in the repository's Settings tab.**
2. Matching Images are untagged during the next prune job.
3. Matching images are deleted during the next prune Job.
4. Matching images are untagged during the next prune job, and subsequently deleted once they are older than the pruning threshold set in the repository's Settings tab.

**Question 13**

Which networking drivers allow you to enable multi-host network connectivity between containers?

1. **macvlan, ipvlan, and overlay**
2. bridge, user-defined, host
3. bridge, macvlan, ipvlan, overlay
4. host, macvlan, overlay, user-defined

**Question 14**

Which 'docker run' flag lifts cgroup limitations?

1. 'docker run --isolation'
2. 'docker run --cap-drop'
3. **'docker run --privileged'**
4. 'docker run --cpu-period'

**Question 15**

Does this describe the role of Control Groups (cgroups) when used with a Docker container?

*Solution*: **user authorization to the Docker API**

1. Yes
2. **No**

**Question 16**

Will this command list all nodes in a swarm cluster from the command line?

*Solution*: **'docker node Is'**

1. Yes
2. **No**

**Question 17**

An application image runs in multiple environments, with each environment using different certificates and ports.

Is this a way to provision configuration to containers at runtime?

*Solution*: **Provision a Docker config object for each environment**.

1. **Yes**
2. No

**Question 18**

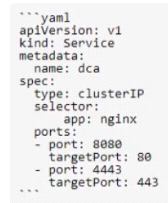
You want to create a container that is reachable from its host's network. Does this action accomplish this?

*Solution*: **Use either EXPOSE or --publish to access the containers on the bridge network**

1. **Yes**
2. No

**Question 19**

The Kubernetes yaml shown below describes a ClusterIP service.



Is this a correct statement about how this service routes requests?

Solution: Traffic sent to the IP of this service on port 8080 will be routed to port 80 in a random pod with the label app: nginx.

1. **Yes**
2. No

**Question 20**

Will this command display a list of volumes for a specific container?

Solution: docker container logs nginx --volumes'

1. Yes
2. **No**

**Question 21**

You are troubleshooting a Kubernetes deployment called api, and want to see the events table for this object. Does this command display it?

Solution: kubectl describe deployment api

1. **Yes**
2. No

**Question 22**

Will this command ensure that overlay traffic between service tasks is encrypted?

*Solution*: docker network create -d overlay --secure

1. Yes
2. **No**

**Question 23**

Is this a function of UCP?

*Solution*: image role-based access control

1. Yes
2. **No**

**Question 24**

Will this action upgrade Docker Engine CE to Docker Engine EE?

*Solution*: Manually download the 'docker-ee' package

1. **Yes**
2. No

**Question 25**

Will this command ensure that overlay traffic between service tasks is encrypted?

*Solution*: docker service create --network --secure

1. Yes
2. **No**

**Question 26**

The following Docker Compose file is deployed as a stack:



Is this statement correct about this health check definition?

*Solution*: Health checks test for app health ten seconds apart. Three failed health checks transition the container into ''unhealthy'' status.

1. **Yes**
2. No

**Question 27**

Is this a type of Linux kernel namespace that provides container isolation?

Solution: Network

1. Yes
2. **No**

**Question 28**

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?

1. **DOCKER\_CONTENT\_TRUST=1**
2. DOCKER\_IMAGE\_SIGN=1
3. DOCKER\_PUSH\_SIGN=1
4. NOTARY\_ENABLE=1

**Question 29**

Which of the following is supported by control groups?

1. Manage certificates
2. Collect net
3. **Limit CPU usage within a container**
4. Isolate processes in a container

**Question 30**

Does this describe the role of Control Groups (cgroups) when used with a Docker container?

*Solution*: role-based access control to clustered resources

1. Yes
2. **No**

**Question 31**

Your organization has a centralized logging solution, such as Splunk.

Will this configure a Docker container to export container logs to the logging solution?

*Solution*: Set the log-driver and log-oPt keys to values for the logging solution (Splunk) In the daemon.json file.

1. **Yes**
2. No

**Question 32**

Will this command list all nodes in a swarm cluster from the command line?

*Solution*: 'docker Is -a'

1. **Yes**
2. No

**Question 33**

You are troubleshooting a Kubernetes deployment called api, and want to see the events table for this object. Does this command display it?

Solution: kubectl events deployment api

1. Yes
2. **No**

**Question 34**

You created a new service named 'http' and discover it is not registering as healthy. Will this command enable you to view the list of historical tasks for this service?

Solution: 'docker inspect http'

1. Yes
2. **No**

**Question 35**

Is this an advantage of multi-stage builds?

Solution: optimizes Images by copying artifacts selectively from previous stages

1. **Yes**
2. No

**Question 36**

A persistentVolumeClaim (PVC) is created with the specification storageClass: "", and size requirements that cannot be satisfied by any existing persistentVolume.

Is this an action Kubernetes takes in this situation?

*Solution*: The PVC remains unbound until a persistentVolume that matches all requirements of the PVC becomes available.

1. **Yes**
2. No

**Question 37**

Will this command list all nodes in a swarm cluster from the command line?

*Solution*: 'docker swarm nodes'

1. Yes
2. **No**

**Question 38**

Will this action upgrade Docker Engine CE to Docker Engine EE?

*Solution*: Delete ' \\'/var/lib/docker\\'' directory.

1. Yes
2. **No**

**Question 39**

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?

1. Use network attach to access the containers on the bridge network
2. **Use either EXPOSE or --publish to access the containers on the bridge network**
3. Use network connect to access the containers on the bridge network
4. Use --link to access the containers on the bridge network

**Question 40**

You created a new service named 'http' and discover it is not registering as healthy. Will this command enable you to view the list of historical tasks for this service?

Solution: 'docker service ps http'

1. Yes
2. **No**

**Question 41**

Will this command ensure that overlay traffic between service tasks is encrypted?

Solution: docker network create -d overlay -o encrypted=true

1. **Yes**
2. No

**Question 42**

Will this action upgrade Docker Engine CE to Docker Engine EE?

Solution: Uninstall 'docker-ce' package before installing 'docker-ee' package.

1. **Yes**
2. No

**Question 43**

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

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

**Question 44**

During development of an application meant to be orchestrated by Kubernetes, you want to mount the /data directory on your laptop into a container.

Will this strategy successfully accomplish this?

*Solution*: Add a volume to the pod that sets hostPath.path: /data, and then mount this volume into the pod's containers as desired.

1. Yes
2. **No**

**Question 45**

You want to create a container that is reachable from its host's network. Does this action accomplish this?

*Solution*: Use network attach to access the containers on the bridge network

1. Yes
2. **No**

**Question 46**

Will this Linux kernel facility limit a Docker container's access to host resources, such as CPU or memory?

*Solution*: seccomp

1. Yes
2. **No**

**Question 47**

Will this command ensure that overlay traffic between service tasks is encrypted?

Solution: docker service create --network --encrypted

1. Yes
2. **No**

**Question 48**

You are troubleshooting a Kubernetes deployment called api, and want to see the events table for this object. Does this command display it?

*Solution*: kubectl logs deployment api

1. Yes
2. **No**

**Question 49**

You created a new service named 'http' and discover it is not registering as healthy. Will this command enable you to view the list of historical tasks for this service?

*Solution*: 'docker service inspect http'

1. Yes
2. **No**

**Question 50**

Will this command display a list of volumes for a specific container?

*Solution*: docker volume inspect nginx'

1. Yes
2. **No**

**Question 51**

Does this describe the role of Control Groups (cgroups) when used with a Docker container?

*Solution*: accounting and limiting of resources

1. Yes
2. **No**

**Question 52**

What is the purpose of Docker Content Trust?

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

**Question 53**

Is this an advantage of multi-stage builds?

Solution: better caching when building Docker images

1. Yes
2. **No**

Question 54

During development of an application meant to be orchestrated by Kubernetes, you want to mount the /data directory on your laptop into a container.

Will this strategy successfully accomplish this?

Solution: Create a PersistentVolume with storageClass: "" and hostPath: /data, and a persistentVolumeClaim requesting this PV. Then use that PVC to populate a volume in a pod

1. **Yes**
2. No

Question 55

Is this a function of UCP?

Solution: enforces the deployment of signed images to the cluster

1. Yes
2. **No**

Question 56

Is this a type of Linux kernel namespace that provides container isolation?

Solution: Authentication

1. **Yes**
2. No

Question 57

You want to create a container that is reachable from its host's network. Does this action accomplish this?

Solution: Use --link to access the container on the bridge network.

1. Yes
2. **No**

Question 58

Will this Linux kernel facility limit a Docker container's access to host resources, such as CPU or memory?

Solution: namespaces

1. Yes
2. **No**

Question 59

Will this Linux kernel facility limit a Docker container's access to host resources, such as CPU or memory?

Solution: cgroups

1. **Yes**
2. No

Question 60

Is this a type of Linux kernel namespace that provides container isolation?

Solution: Storage

1. Yes
2. **No**

Question 61

Which of the following statements is true about secrets?

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

Question 62

Which of the following commands will ensure that overlay traffic between service tasks is encrypted?

1. docker service create --network --secure
2. docker network create -d overlay --secure
3. **docker network create -d overlay -o encrypted=true**
4. docker service create --network --encrypted

Question 63

In the context of a swarm mode cluster, does this describe a node?

Solution: a virtual machine participating in the swarm.

1. Yes
2. **No**

Question 64

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?

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

**Question 65**

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

1. universal
2. **global**
3. distributed
4. spread
5. replicated

**Question 66**

Will this sequence of steps completely delete an image from disk in the Docker Trusted Registry? Solution: Delete the image and run garbage collection on the Docker Trusted Registry.

1. Yes
2. **No**

**Question 67**

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?

1. \\'docker inspect http\\'
2. \\'docker service inspect http\\'
3. **\\'docker service ps http\\'**
4. \\'docker ps http\\'

**Question 68**

Is this the purpose of Docker Content Trust?

Solution: Enable mutual TLS between the Docker client and server.

1. Yes
2. **No**

**Question 69**

The Kubernetes yaml shown below describes a networkPolicy.



Will the networkPolicy BLOCK this traffic?

Solution: a request issued from a pod bearing the tier: backend label, to a pod bearing the tier: frontend label

1. Yes
2. **No**

**Question 70**

Does this command display all the pods in the cluster that are labeled as \\'env: development\\'? Solution: \\'kubectl get pods --all-namespaces -label env=development\\'

1. Yes
2. **No**

**Question 71**

Will a DTR security scan detect this?

Solution: licenses for known third party binary components

1. Yes
2. **No**

**Question 72**

Does this command create a swarm service that only listens on port 53 using the UDP protocol?

Solution: 'docker service create --name dns-cache -p 53:53/udp dns-cache'

1. **Yes**
2. No

**Question 73**

Which of the following is true about overlay networks?

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

**Question 74**

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?

1. docker node ls
2. **docker system info**
3. docker system status
4. docker system status

**Question 75**

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

1. **'docker container run --name nginxtest --volumes=/app nginx'**
2. 'docker container run --name nginxtest -v /app:mount nginx'
3. 'docker container run --name nginxtest --volumes myvol:/app:new nginx'
4. 'docker container run --name nginxtest -v myvol:/app nginx'

**Question 76**

Which one of the following commands will show a list of volumes for a specific container?

1. 'docker container logs nginx --volumes'
2. **'docker container inspect nginx'**
3. 'docker volume inspect nginx'
4. 'docker volume logs nginx --containers'

**Question 77**

Which of the following constitutes a production-ready devicemapper configuration for the Docker

engine?

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

**Question 78**

Which one of the following commands will result in the volume being removed automatically once

the container has exited?

1. 'docker run --del -v /foo busybox'
2. 'docker run --read-only -v /foo busybox'
3. **'docker run --rm -v /foo busybox'**
4. 'docker run --remove -v /foo busybox'

**Question 79**

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"?

1. docker run -d --name=reports --volume=data app2
2. **docker run -d --name=reports --volumes-from=analytics app2**
3. docker run -d --name=reports --volume=app1 app2
4. docker run -d --name=reports --mount=app1 app2

**Question 80**

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?

1. **'docker system df'**
2. 'docker system prune'
3. 'docker system free'
4. 'docker system ps'

**Question 81**

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

1. loop-lvm
2. overlay-lvm
3. **direct-lvm**
4. aufs-lvm

**Question 82**

Is this a Linux kernel namespace that is disabled by default and must be enabled at Docker engine runtime to be used?

Solution: user

1. **Yes**
2. No

**Question 83**

Which of the following is true about using the '-P' option when creating a new container?

1. **Docker binds each exposed container port to a random port on all the host's interface**
2. Docker gives extended privileges to the container.
3. Docker binds each exposed container port to a random port on a specified host interface
4. Docker binds each exposed container port with the same port on the host

**Question 84**

Is this a Linux kernel namespace that is disabled by default and must be enabled at Docker engine runtime to be used?

Solution: net

1. Yes
2. **No**

**Question 85**

Will this configuration achieve fault tolerance for managers in a swarm?

Solution: an odd number of manager nodes, totalling more than two

1. **Yes**
2. No

**Question 86**

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)

1. **'docker service update --replicas=5 <service-id>'**
2. 'docker replica update <service-id>=5'
3. 'docker update service <service-id>=5'
4. 'docker service replicas <service-id>=5'
5. **'docker service scale <service-id> = 5''**

**Question 87**

In the context of a swarm mode cluster, does this describe a node?

*Solution*: a physical machine participating in the swarm

1. Yes
2. **No**

**Question 88**

Will this sequence of steps completely delete an image from disk in the Docker Trusted Registry?

*Solution*: Delete the image and delete the image repository from Docker Trusted Registry

1. **Yes**
2. No

**Question 89**

A company's security policy specifies that development and production containers must run on separate nodes in a given Swarm cluster.

Can this be used to schedule containers to meet the security policy requirements?

*Solution*: label contraints

1. Yes
2. **No**

**Question 90**

What is the purpose of multi-stage builds?

1. Better logical separation of Dockerfile instructions for better readability
2. **Optimizing images by copying artifacts selectively from previous stages**
3. Better caching when building Docker images
4. Faster image builds by allowing parallel execution of Docker builds

**Question 91**

An application image runs in multiple environments, and each environment uses different certificates and ports, what is the best practice to deploy the containers?

1. Create a Dockerfile for each environment, specifying ports and ENV variables for certificates.
2. Create a Dockerfile for each environment, specifying ports and Docker secrets for certificates.
3. Create images that contain the specific configuration for every environment.
4. **Create a config file for each environment.**

**Question 92**

The following Docker Compose file is deployed as a stack:



Is this statement correct about this health check definition?

Solution: Health checks test for app health ten seconds apart. If the test fails, the container will be restarted three times before it gets rescheduled.

1. Yes
2. **No**

**Question 93**

A Kubernetes node is allocated a /26 CIDR block (64 unique IPs) for its address space.

If every pod on this node has exactly two containers in it, how many pods can this address space support on this node?

1. 32
2. 32 In every Kubernetes namespace
3. **64 for every service routing to pods on this node**
4. 64 \*\*\*\*\*\*

**Question 94**

You are running only Kubernetes workloads on a worker node that requires maintenance, such as installing patches or an OS upgrade

Which command must be run on the node to gracefully terminate all pods on the node, while marking the node as unschedulable?

1. 'docker node update --availability drain <node name>'
2. 'docker swarm leave'
3. 'kubectl drain <node name>'
4. **'kubectl cordon <node name>'**

**Question 95**

Which statement is true about DTR garbage collection?

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

**Question 96**

Seven managers are in a swarm cluster.

Is this how should they be distributed across three datacentres or availability zones?

Solution: 3-2-2

1. **Yes**
2. No

**Question 97**

In the context of a swarm mode cluster, does this describe a node?

Solution: an instance of the Docker engine participating in the swarm

1. **Yes**
2. No

**Question 98**

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.)

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

**Question 99**

Seven managers are in a swarm cluster.

Is this how should they be distributed across three datacenters or availability zones?

Solution: 5-1-1

1. Yes
2. **No**

**Question 100**

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

1. 3-3-1
2. **4-2-1**
3. 3-2-2
4. 5-1-1

**Question 101**

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?

1. docker node ls
2. docker system status
3. **docker system info**
4. docker system status

**Question 102**

Will this configuration achieve fault tolerance for managers in a swarm?

Solution: only two managers, one active and one passive.

1. Yes
2. **No**

**Question 103**

Seven managers are in a swarm cluster.

Is this how should they be distributed across three datacenters or availability zones?

Solution: 3-3-1

1. Yes
2. **No**

**Question 104**

What is the docker command to setup a swarm?

1. docker create swarm
2. docker swarm create
3. **docker swarm init**
4. docker init swarm

**Question 105**

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?

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

**Question 106**

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?

1. **docker commit**
2. A docker-compose.yml file
3. A dockerfile
4. docker save

**Question 107**

When an application being managed by UCP fails, you would like a summary of all requests made to the UCP API in the hours leading up to the failure.

What must be configured correctly beforehand for this to be possible?

1. **UCP audit logs must be set to the metadata' or request' level.**
2. All engines in the cluster must have their log driver set to the metadata' or request' level.
3. UCP logging levels must be set to the info' or debug' level.
4. Set the logging level in theconfig object for the ucp-kube-api-server container to warning or higher.

**Question 108**

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

1. docker info
2. docker config
3. docker stats
4. **docker inspect**

**Question 109**

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

1. 'docker run -d --restart omit-stopped redis'
2. 'docker run -d --restart-policy unless-stopped redis'
3. 'docker run -d --failure omit-stopped redis'
4. **'docker run -d --restart unless-stopped redis'**

**Question 110**

What behavior is expected when a service is created with the following command:

'docker service create --publish 8000:80 nginx'

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

**Question 111**

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

1. License key obtained from Docker Hub
2. **Repository URL obtained from Docker Store**
3. License key obtained from Docker Store
4. Repository URL obtained from Docker Hub

**Question 112**

Is this the purpose of Docker Content Trust?

Solution: Verify and encrypt Docker registry TLS.

1. **Yes**
2. No

**Question 113**

You configure a local Docker engine to enforce content trust by setting the environment variable

DOCKER\_CONTENT\_TRUST=1.

If myorg/myimage: 1.0 is unsigned, does Docker block this command?

**Solution**: docker image import <tarball> myorg/myimage:1.0

1. **Yes**
2. No

**Question 114**

Will this command display a list of volumes for a specific container?

Solution: docker volume logs nginx --containers'

1. Yes
2. **No**

**Question 115**

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

1. 4-2-1
2. 5-1-1
3. 3-3-1
4. **3-2-2**

**Question 116**

A company's security policy specifies that development and production containers must run on separate nodes in a given Swarm cluster.

Can this be used to schedule containers to meet the security policy requirements?

Solution: node taints

1. Yes
2. **No**

**Question 117**

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

1. COPY supports compression format handling while ADD does not.
2. **ADD support remote URL handling while COPY does not.**
3. COPY supports regular expression handling while ADD does not.
4. ADD supports compression format handling while COPY does not.
5. **ADD supports regular expression handling while COPY does not.**

**Question 118**

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

1. There is no way of directly transferring Docker images between hosts. A Docker Registry must be used ad an intermediary.
2. **'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.**
3. '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.
4. 'docker push' the image to the IP address of the target host.

**Question 119**

Is this a Linux kernel namespace that is disabled by default and must be enabled at Docker engine runtime to be used?

Solution: mnt

1. Yes
2. **No**

**Question 120**

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

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

**Question 121**

Which set of commands can identify the publishd port(s) for a container? (Choose 1.)

1. 'docker info','docker network inspect'
2. **'docker container inspect', docker port'**
3. 'docker port inspect', 'docker container inspect'
4. 'docker network inspect','docker port'

**Question 122**

Is this statement correct?

Solution: A Dockerfile provides instructions for building a Docker image

1. Yes
2. **No**

**Question 123**

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

1. A resource limit and a resource reservation can be used interchangeably.
2. 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.
3. 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.
4. A resource limit is hard limit for your service, while a reservation is used to find a host with adequate resources for scheduling. Correct

**Question 124**

You are pulling images from a Docker Trusted Registry installation configured to use self-signed certificates, and this error appears:

'x509: certificate signed by unknown authority'.

You already downloaded the Docker Trusted Registry certificate authority certificate from https://dtr.example.com/ca.

How do you trust it? (Select two.)

1. Place the certificate in '/etc/docker/dtr/dtr.example.com.crt' and restart the Docker daemon on all cluster nodes.
2. Place the certificate in your OS certificate path, trust the certificate system-wide, and restart the Docker daemon across all cluster nodes.
3. Pass '-trust-certificate ca.crt' to the Docker client.
4. **Pass --insecure-registry to the Docker client.**
5. **Place the certificate in '/etc/docker/certs.d/dtr.example com/ca.crt' on all cluster nodes**.

**Question 125**

Which of the following commands will create a swarm service which only listens on port 53 using the UDP protocol?

1. **docker service create –name dns-cache -p 53:53/udp dns-cache**
2. docker service create –name dns-cache -p 53:53 –service udp dns-cache
3. docker service create –name dns-cache -p 53:53 ..constraint networking.protocol.udp=true dns-cache
4. docker service create –name dns-cache -p 53:53 –udp dns-cache

**Question 126**

Is this a function of UCP?

**Solution**: scans images to detect any security vulnerability

1. Yes
2. **No**

**Question 127**

Which of the following modes can be used for service discovery of a Docker swarm service (Pick 2 correct answers)

1. **Virtual IP (VIP) with –endpoint-mode vip**
2. Overlay with –endpoint-mode overlay
3. **DNS Round-Robin with –endpoint-mode dnsrr**
4. Ingress with –endpoint-mode ingress
5. Network Address Translation(NAT) with –endpoint-mode nat

**Question 128**

Which command interactively monitors all container activity in the Docker engine?

1. docker system logs
2. **docker system events**
3. docker container events
4. docker container logs

**Question 129**

Is this a supported user authentication method for Universal Control Plane?

Solution: PAM

1. Yes
2. **No**

**Question 130**

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

1. Set the configuration options using the ENV variable
2. **Set the configuration options in ‘/etc/docker/daemon.json’**
3. Set the configuration DOCKER\_OPTS in ‘/etc/default/docker’
4. Using ‘docker config’ to set the configuration options.

**Question 131**

You want to provide a configuration file to a container at runtime. Does this set of Kubernetes tools and steps accomplish this?

**Solution**: Mount the configuration file directly into the appropriate pod and container using the .spec.containers.configMounts key.

1. Yes
2. **No**

**Question 132**

One of several containers in a pod is marked as unhealthy after failing its livenessProbe many times. Is this the action taken by the orchestrator to fix the unhealthy container?

Solution: The controller managing the pod is autoscaled back to delete the unhealthy pod and alleviate load.

1. **Yes**
2. No

**Question 133**

The output of which command can be used to find the architecture and operating system an image is compatible with?

1. docker image inspect --filter {{.Architecture}} {{.OS}} ' <image-id>
2. docker image info <image-id>
3. **docker image inspect --format {{.Architecture}} {{.OS}} ' <image-id>**
4. docker image ls <image-id>

**Question 134**

The following health check exists in a Dockerfile:

'HEALTCHECK CMD curl --fail http://localhost/health || exit 1'

Which of the following describes its purpose?

1. **Defines the action taken when container health fails, which in this case will kill the container with exit status 1**
2. Defines the health check for the containerized application so that the application health can be monitored by the Docker engine
3. Defines the health check endpoint on the local host interface for containers to monitor the health of the docker engine.
4. Defines the health check endpoint on the localhost interface for external monitoring tools to monitor the health of the docker engine.

**Question 135**

You configure a local Docker engine to enforce content trust by setting the environment variable

DOCKER\_CONTENT\_TRUST=1.

If myorg/myimage: 1.0 is unsigned, does Docker block this command?

Solution: docker service create myorg/myimage:1.0

1. Yes
2. No

**Question 136**

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

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

**Question 137**

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

1. Namespaces
2. Overlay networks
3. Volumes
4. **Control groups (also known as cgroups)**

**Question 138**

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

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

**Question 139**

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.

1. Create a new docker secret with the new password. Trigger a rolling secret update by using the 'docker secret update' command
2. Trigger an update to the service by using 'docker service update --secret=<new password>'
3. 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=<new password>"
4. **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.**

**Question 140**

Which of the following are types of namespaces used by Docker to provide isolation? (Choose 2.)

1. Host
2. Authentication
3. **Process ID**
4. Storage
5. **Network**

**Question 141**

A company's security policy specifies that development and production containers must run on separate nodes in a given Swarm cluster. Can this be used to schedule containers to meet the security policy requirements?

Solution: resource reservation

1. Yes
2. **No**

**Question 142**

Two development teams in your organization use Kubernetes and want to deploy their applications while ensuring that Kubernetes-specific resources, such as secrets, are grouped together for each application. Is this a way to accomplish this?

Solution: Add all the resources to the default namespace

1. Yes
2. **No**

**Question 143**

One of several containers in a pod is marked as unhealthy after failing its livenessProbe many times. Is this the action taken by the orchestrator to fix the unhealthy container?

Solution: Kubernetes automatically triggers a user-defined script to attempt to fix the unhealthy container.

1. Yes
2. **No**

**Question 144**

In Docker Trusted Registry, is this how a user can prevent an image, such as 'nginx:latest',from being overwritten by another user with push access to the repository?

Solution: Use the DTR web Ul to make all tags in the repository immutable

1. **Yes**
2. No

**Question 145**

Which statement is true?

1. **CMD shell format uses this form [“param”, param”, “param”]**
2. ENTRYPOINT cannot be used in conjuction with CMD
3. CMD is used to run the software is the image along with any arguments
4. ENTRYPOINT cannot be overriden in the “docker container run” command

**Question 146**

Your organization has a centralized logging solution, such as Splunk.

Will this configure a Docker container to export container logs to the logging solution?

Solution: docker system events –filter splunk

1. Yes
2. **No**

**Question 147**

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?

1. Set the '--cpuset-cpu's flag to '1.3' on one container and '2.4' on the other container.
2. **Set the '--cpuset-cpus' flag to '.5' on both containers**
3. Set the '--cpuset-cpus' flag of the 'dockerd' process to the value 'even-spread'
4. Set the '--cpu-quota' flag to '1.3' on one container and '2,4' on the other container.

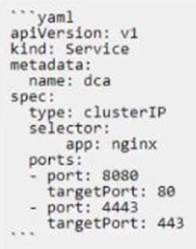
**Question 148**

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

1. Access control to repos and images
2. Repository metadata
3. **Image blobs**
4. DTR configurations

**Question 149**

The Kubernetes yaml shown below describes a clusterIP service.



Is this a correct statement about how this service routes requests?

**Solution**: Traffic sent to the IP of any pod with the label app: nginx on port 8080 will be forwarded to port 80 in that pod.

1. **Yes**
2. No

**Question 150**

You add a new user to the engineering organization in DTR.

Will this action grant them read/write access to the engineering/api repository?

**Solution**: Add them to a team in the engineering organization that has read/write access to the engineering/api repository.

1. Yes
2. **No**

**Question 151**

Two development teams in your organization use Kubernetes and want to deploy their applications while ensuring that Kubernetes-specific resources, such as secrets, are grouped together for each application.

Is this a way to accomplish this?

Solution: Create one namespace for each application and add all the resources to it.

1. Yes
2. **No**

**Question 152**

How do you change the default logging driver for the Docker daemon in Linux?

1. Use the -log-driver' flag when you run a container.
2. Set the value of log-driver to the name of the logging driver In the daemon.json In /etc/doc
3. At the command line, type: docker log driver set &lt;driver name&gt;
4. **Install a logging agent on the Linux host.**

**Question 153**

You want to mount external storage to a particular filesystem path in a container in a Kubernetes pod. What is the correct set of objects to use for this?

1. a volume in the pod specification, populated with a perslstentVolumeClaim bound to a perslstentVolume defined by a storageClass
2. **a storageClass In the pod's specification, populated with a volume which Is bound to a provisioner defined by a persistentVolume**
3. a volume in the pod specification, populated with a storageClass which is bound to a provisioner defined by a perslstentVolume
4. a perslstentVolume in the pod specification, populated with a persistentVolumeClaim which is bound to a volume defined by a storageClass

**Question 154**

A user attempts to set the system time from inside a Docker container are unsuccessful. Could this be blocking this operation?

Solution: Linux capabilities

1. **Yes**
2. No

**Question 155**

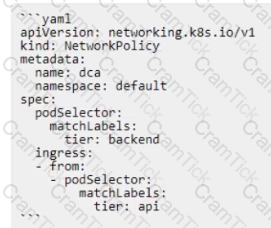
Does this command create a swarm service that only listens on port 53 using the UDP protocol?

Solution: ‘docker service create -name dns-cache -p 53:53 -service udp dns-cache'

1. Yes
2. **No**

**Question 156**

The Kubernetes yaml shown below describes a networkPolicy.



Will the networkPolicy BLOCK this traffic?

**Solution**: a request issued from a pod lacking the tier: api label, to a pod bearing the tier: backend label

1. **Yes**
2. No

Question **157**

You want to provide a configuration file to a container at runtime. Does this set of Kubernetes tools and steps accomplish this?

Solution: Turn the configuration file into a configMap object and mount it directly into the appropriate pod and container using the .spec.containers.configMounts key.

1. Yes
2. **No**

Question **158**

Are these conditions sufficient for Kubernetes to dynamically provision a persistentVolume, assuming there are no limitations on the amount and type of available external storage?

Solution: A default provisioner is specified, and subsequently a persistentVolumeClaim is created.

1. Yes
2. **No**

Question **159**

Which of the following namespaces is disabled by default and must be enabled at Docker engine runtime in order to be used?

1. net
2. pid
3. **user**
4. mnt

Question **160**

Can this set of commands identify the published port(s) for a container?

Solution: docker container inspect', 'docker port'

1. **Yes**
2. No

Question **161**

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

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

Question **162**

Each container shares common writeable container layer. Yes or No?

1. Yes
2. **No**

Question **163**

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

1. dockerd --dns-update IP\_ADDRESS
2. dockerd --set-dns IP\_ADDRESS
3. dockerd --dns-server IP\_ADDRESS
4. **dockerd --dns IP\_ADDRESS**

Question **164**

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

1. \*.pyc
2. \*\*.pyc
3. /\*.pyc
4. **\*\* /\*.pyc**

Question **165**

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

1. docker build tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]
2. docker tag TARGET\_IMAGE[:TAG] SOURCE\_IMAGE[:TAG]
3. docker tag image SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]
4. **docker tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]**

Question **166**

You add a new user to the engineering organization in DTR.

Will this action grant them read/write access to the engineering/api repository?

Solution: Add the user directly to the list of users with read/write access under the repository's Permissions tab.

1. **Yes**
2. No

Question **167**

A new volume was dynamically provisioned when Matt created a PVC based on the following snippet:



After 60 days, the volume is full and Matt wants to increase the size of the volume. Will it be possible?

1. **Yes**
2. No

Question **168**

Multiple volumes can be associated with a single Pod?

1. **Yes**
2. No

Question **169**

A secret named db-credential is mounted to all the application containers. The secret is mounted under the /run directory. Developer wants the secret to be available at /etc location. What is the approach to achieve the same?

1. **docker secret create with the target of /etc**
2. docker secret update with the target of /etc
3. docker secret deploy with the target of /etc
4. docker secret mount with the target of /etc

Question **170**

You configure a local Docker engine to enforce content trust by setting the environment variable.

DOCKER\_CONTENT\_TRUST=1

If myorg/myimage: 1.0 is unsigned, does the below Docker block this command?

docker build myorg/myimage:1.

1. Yes
2. **No**

Question **169**

Question **169**

Question **169**

Question **169**