⚙ Custom View Settings

## Topic 1 - Exam A

### Question #1                                                              *Topic 1*

What is the difference between the ADD and COPY Dockerfile instructions? (Choose two.)

- A. ADD supports regular expression handling while COPY does not.
- B. COPY supports compression format handling while ADD does not.
- C. ADD supports compression format handling while COPY does not.
- D. COPY supports regular expression handling while ADD does not.
- E. ADD supports remote URL handling while COPY does not.

### Question #2                                                              *Topic 1*

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?

- A. UCP audit logs must be set to the 'metadata' or 'request' level.
- B. All engines in the cluster must have their log driver set to the 'metadata' or 'request' level.
- C. UCP logging levels must be set to the 'info' or 'debug' level.
- D. Set the logging level in the config object for the ucp-kube-api-server container to warning or higher.

### Question #3                                                              *Topic 1*

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

- A. Yes
- B. No

## Question #4

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?
The unhealthy container is restarted.

Topic 1

A. Yes

B. No

## Question #5

Is this a way to configure the Docker engine to use a registry without a trusted TLS certificate?
Set INSECURE_REGISTRY in the '/etc/docker/default' configuration file.

Topic 1

A. Yes

B. No

## Question #6

Is this a way to configure the Docker engine to use a registry without a trusted TLS certificate?
Set and export the IGNORE_TLS environment variable on the command line.

Topic 1

A. Yes

B. No

## Question #7

Is this a way to configure the Docker engine to use a registry without a trusted TLS certificate?
Pass the '--insecure registry' flag to the daemon at run time.

Topic 1

A. Yes

B. No

## Question #8

Is this an advantage of multi-stage builds?
better logical separation of Dockerfile instructions for increased readability

Topic 1

A. Yes

B. No

## Question #9

**Topic 1**

Is this an advantage of multi-stage builds?

better caching when building Docker images

A. Yes

B. No

## Question #10

**Topic 1**

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

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

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

A. Yes

B. No

## Question #11

**Topic 1**

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

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

Mirror the engineering/api repository to one of the user's own private repositories.

A. Yes

B. No

## Question #12

**Topic 1**

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

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

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

A. Yes

B. No

## Question #13

**Topic 1**

Seven managers are in a swarm cluster.

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

3-2-2

A. Yes

B. No

## Question #14

Topic 1

Seven managers are in a swarm cluster.

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

5-1-1

    A. Yes

    B. No

## Question #15

Topic 1

Is this a function of UCP?

image role-based access control

    A. Yes

    B. No

## Question #16

Topic 1

Is this a function of UCP?

enforces the deployment of signed images to the cluster

    A. Yes

    B. No

## Question #17

Topic 1

Is this the purpose of Docker Content Trust?

Enable mutual TLS between the Docker client and server.

    A. Yes

    B. No

## Question #18

Topic 1

Is this the purpose of Docker Content Trust?

Sign and verify image tags.

    A. Yes

    B. No

## Question #19
*Topic 1*

Is this the purpose of Docker Content Trust?
Indicate an image on Docker Hub is an official image.

    A. Yes

    B. No

## Question #20
*Topic 1*

In the context of a swarm mode cluster, does this describe a node? an instance of the Docker CLI connected to the swarm

    A. Yes

    B. No

## Question #21
*Topic 1*

In the context of a swarm mode cluster, does this describe a node? a virtual machine participating in the swarm

    A. Yes

    B. No

## Question #22
*Topic 1*

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

    A. Yes

    B. No

## Question #23
*Topic 1*

Is this a supported user authentication method for Universal Control Plane?
X.500

    A. Yes

    B. No

## Question #24

*Topic 1*

Is this statement correct?

A Dockerfile provides instructions for building a Docker image.

   A. Yes

   B. No

## Question #25

*Topic 1*

Is this statement correct?

A Dockerfile stores persistent data between deployments of a container.

   A. Yes

   B. No

## Question #26

*Topic 1*

Will this command ensure that overlay traffic between service tasks is encrypted? docker network create -d overlay --secure <network-name>

   A. Yes

   B. No

## Question #27

*Topic 1*

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?

Create a Dockerfile for each environment, specifying ports and Docker secrets for certificates.

   A. Yes

   B. No

## Question #28

*Topic 1*

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

Delete the image and delete the image repository from Docker Trusted Registry

   A. Yes

   B. No

## Question #29
*Topic 1*

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

    A. Yes

    B. No

## Question #30
*Topic 1*

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

    A. Yes

    B. No

## Question #31
*Topic 1*

Does this describe the role of Control Groups (cgroups) when used with a Docker container? role-based access control to clustered resources

    A. Yes

    B. No

## Question #32
*Topic 1*

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

    A. Yes

    B. No

## Question #33
*Topic 1*

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?
Create one pod and add all the resources needed for each application.

    A. Yes

    B. No

## Question #34 — *Topic 1*

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?

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

- A. Yes
- B. No

## Question #35 — *Topic 1*

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?

Create a collection for each application.

- A. Yes
- B. No

## Question #36 — *Topic 1*

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?

'docker inspect http'

- A. Yes
- B. No

## Question #37 — *Topic 1*

The Kubernetes yaml shown below describes a clusterIP service.

```yaml
apiVersion: v1
kind: Service
metadata:
  name: dca
spec:
  type: clusterIP
  selector:
    app: nginx
  ports:
  - port: 8080
    targetPort: 80
  - port: 4443
    targetPort: 443
...
```

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

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.

- A. Yes
- B. No

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? label constraints

A. Yes

B. No

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? environment variables

A. Yes

B. No

Will a DTR security scan detect this?
private keys copied to the image

A. Yes

B. No

Will a DTR security scan detect this?
image configuration poor practices, such as exposed ports or inclusion of compilers in production images

A. Yes

B. No

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? docker image build, from a Dockerfile that begins FROM myorg/myimage:1.0

A. Yes

B. No

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

A. Yes

B. No

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

A. Yes

B. No

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

A. Yes

B. No

Will this configuration achieve fault tolerance for managers in a swarm? an odd number of manager nodes, totaling more than two

A. Yes

B. No

Will this configuration achieve fault tolerance for managers in a swarm? only two managers, one active and one passive

A. Yes

B. No

## Question #48
*Topic 1*

You want to provide a configuration file to a container at runtime.

Does this set of Kubernetes tools and steps accomplish this?

Turn the configuration file into a configMap object, use it to populate a volume associated with the pod, and mount that file from the volume to the appropriate container and path.

    A. Yes

    B. No

## Question #49
*Topic 1*

You want to create a container that is reachable from its host's network.

Does this action accomplish this?

Use either EXPOSE or --publish to access the container on the bridge network.

    A. Yes

    B. No

## Question #50
*Topic 1*

You want to create a container that is reachable from its host's network.

Does this action accomplish this?

Use network connect to access the container on the bridge network.

    A. Yes

    B. No

## Question #51
*Topic 1*

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

Disable the Docker service via 'chkconfig' or 'systemctl'.

    A. Yes

    B. No

## Question #52
*Topic 1*

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

Run docker engine activate.

    A. Yes

    B. No

## Question #53

*Topic 1*

Will this command display a list of volumes for a specific container?
'docker container logs nginx --volumes'

    A. Yes

    B. No

## Question #54

*Topic 1*

Will this command display a list of volumes for a specific container?
'docker container inspect nginx'

    A. Yes

    B. No

## Question #55

*Topic 1*

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?
Use the DTR web UI to make all tags in the repository immutable.

    A. Yes

    B. No

## Question #56

*Topic 1*

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?
Tag the image with 'nginx:immutable'.

    A. Yes

    B. No

## Question #57

*Topic 1*

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

    A. Yes

    B. No

## Question #58

Does this command display all the pods in the cluster that are labeled as 'env: development'?
'kubectl get pods --all-namespaces -l 'env in (development)' '

A. Yes

B. No

## Question #59

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

Will this configure a Docker container to export container logs to the logging solution? docker system events --filter splunk

A. Yes

B. No

## Question #60

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

Will this configure a Docker container to export container logs to the logging solution? docker logs <container-id>

A. Yes

B. No

## Question #61

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

Will this configure a Docker container to export container logs to the logging solution?
Set the log-driver and log-opt keys to values for the logging solution (Splunk) in the daemon.json file.

A. Yes

B. No

The Kubernetes yaml shown below describes a networkPolicy.

```yaml
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: dca
  namespace: default
spec:
  podSelector:
    matchLabels:
      tier: backend
  ingress:
  - from:
    - podSelector:
        matchLabels:
          tier: api
...
```

Will the networkPolicy BLOCK this traffic?

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

   A. Yes

   B. No

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

   A. Yes

   B. No

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

   A. Yes

   B. No

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

   A. Yes

   B. No

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

'docker run -v /data:/mydata --mode readonly ubuntu'

   A. Yes

   B. No