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Oracle Cloud Infrastructure Developer 2020 Associate

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QUESTION 1

You have created a repository in Oracle Cloud Infrastructure Registry in the us-ashburn-1 (iad) region in your tenancy with a namespace called "heyoci."

Which three are valid tags for an image named "myapp"?

- A. iad.ocir.io/heyoci/myproject/myapp:0.0.1
- B. us-ashburn-1.ocir.io/heyoci/myapp:0.0.2-beta
- C. us-ashburn-1.ocir.io/heyoci/myproject/myapp:0.0.2-beta
- D. us-ashburn-1.ocir.io/myproject/heyoci/myapp:latest
- E. iad.ocir.io/myproject/heyoci/myapp:latest
- F. iad.ocir.io/heyoci/myapp:0.0.2-beta
- G. iad.ocir.io/heyoci/myapp:latest

Correct Answer: AFG

Give a tag to the image that you're going to push to Oracle Cloud Infrastructure Registry by entering:

docker tag

where:

uniquely identifies the image, either using the image's id (for example, 8e0506e14874), or the image's name and tag separated by a colon (for example, acme-web-app:latest). is in the format .ocir.io///: where: is the key for the Oracle Cloud Infrastructure Registry region you're using. For example, iad. See Availability by Region. ocir.io is the Oracle Cloud Infrastructure Registry name. is the auto-generated Object Storage namespace string of the tenancy that owns the repository to which you want to push the image (as shown on the Tenancy Information page). For example, the namespace of the acme-dev tenancy might be ansh81vru1zp. Note that for some older tenancies, the namespace string might be the same as the tenancy name in all lower-case letters (for example, acme-dev). Note also that your user must have access to the tenancy. (if specified) is the name of a repository to which you want to push the image (for example, project01). Note that specifying a repository is optional (see About Repositories). is the name you want to give the image in Oracle Cloud Infrastructure Registry (for example, acme-web-app). is an image tag you want to give the image in Oracle Cloud Infrastructure Registry (for example, version2.0.test). For example, for convenience you might want to group together multiple versions of the acme-web-app image in the acme-dev tenancy in the Ashburn region into a repository called project01. You do this by including the name of the repository in the image name when you push the image, in the format .ocir.io///. For example, iad.ocir.io/ ansh81vru1zp/project01/acme-web-app:4.6.3. Subsequently, when you use the docker push command, the presence of the repository in the image's name ensures the image is pushed to the intended repository. If you push an image and include the name of a repository that doesn't already exist, a new private repository is created automatically. For example, if you enter a command like docker push iad.ocir.io/ansh81vru1zp/project02/acme-web-app:7.5.2 and the project02 repository doesn't exist, a private repository called project02 is created automatically. If you push an image and don't include a repository name, the image's name is used as the name of the repository. For example, if you enter a command like docker push iad.ocir.io/ansh81vru1zp/acme-web-app:7.5.2 that doesn't contain a repository name, the image's name (acme-web-app) is used as the name of a private repository. [https:// docs.cloud.oracle.com/en-us/iaas/Content/Registry/Concepts/registrywhatisarepository.htm](https://docs.cloud.oracle.com/en-us/iaas/Content/Registry/Concepts/registrywhatisarepository.htm)

**QUESTION 2**

You are deploying an API via Oracle Cloud Infrastructure (OCI) API Gateway and you want to implement request policies to control access Which is NOT available in OCI API Gateway?

- A. Limiting the number of requests sent to backend services
- B. Enabling CORS (Cross-Origin Resource Sharing) support
- C. Providing authentication and authorization
- D. Controlling access to OCI resources

Correct Answer: D

In the API Gateway service, there are two types of policy:

-

a request policy describes actions to be performed on an incoming request from a caller before it is sent to a back end

-

a response policy describes actions to be performed on a response returned from a back end before it is sent to a caller

You can use request policies to:

- limit the number of requests sent to back-end services
 - enable CORS (Cross-Origin Resource Sharing) support
 - provide authentication and authorization
-

QUESTION 3

Given a service deployed on Oracle Cloud infrastructure Container Engine for Kubernetes (OKE), which annotation should you add in the sample manifest file to specify a 400 Mbps load balancer?



```
apiVersion: v1
kind: Service
metadata:
  name: my-nginx-svc
  labels:
    app: nginx
  annotations:
    <Fill in>
spec:
  type: LoadBalancer
  ports:
    - port: 80
  selector:
    app: nginx
```

- A. service.beta, kubernetes. io/oci-load-balancer-kind: 400Mbps
- B. service, beta, kubernetes. io/oci-load-balancer-value: 4 00Mbps
- C. service . beta. kubernetes . io/oci-load-balancer-shape: 400Mbps
- D. service . beta . kubernetes . io/oci-load-balancer-size: 400Mbps

Correct Answer: C

The shape of an Oracle Cloud Infrastructure load balancer specifies its maximum total bandwidth (that is, ingress plus egress). By default, load balancers are created with a shape of 100Mbps. Other shapes are available, including 400Mbps and 8000Mbps.

To specify an alternative shape for a load balancer, add the following annotation in the metadata section of the manifest file:

service.beta.kubernetes.io/oci-load-balancer-shape: where value is the bandwidth of the shape (for example, 100Mbps, 400Mbps, 8000Mbps).

For example:

```
apiVersion: v1
kind: Service
metadata:
  name: my-nginx-svc
  labels:
    app: nginx
```



annotations:

service.beta.kubernetes.io/oci-load-balancer-shape: 400Mbps spec:

type: LoadBalancer

ports:

-port: 80 selector: app: nginx <https://github.com/oracle/oci-cloud-controller-manager/blob/master/docs/load-balancer-annotations.md>

QUESTION 4

You are implementing logging in your services that will be running in Oracle Cloud Infrastructure Container Engine for Kubernetes. Which statement describes the appropriate logging approach?

- A. Each service logs to its own log file.
- B. All services log to an external logging system.
- C. All services log to standard output only.
- D. All services log to a shared log file.

Correct Answer: C

Application and systems logs can help you understand what is happening inside your cluster. The logs are particularly useful for debugging problems and monitoring cluster activity. Most modern applications have some kind of logging mechanism; as such, most container engines are likewise designed to support some kind of logging. The easiest and most embraced logging method for containerized applications is to write to the standard output and standard error streams.

<https://kubernetes.io/docs/concepts/cluster-administration/logging/> <https://blogs.oracle.com/developers/5-best-practices-for-kubernetes-security>

QUESTION 5

Which pattern can help you minimize the probability of cascading failures in your system during partial loss of connectivity or a complete service failure?

- A. Retry pattern
- B. Anti-corruption layer pattern
- C. Circuit breaker pattern
- D. Compensating transaction pattern

Correct Answer: C

A cascading failure is a failure that grows over time as a result of positive feedback. It can occur when a portion of an overall system fails, increasing the probability that other portions of the system fail. The circuit breaker pattern prevents the service from performing an operation that is likely to fail. For example, a client service can use a circuit breaker to



prevent further remote calls over the network when a downstream service is not functioning properly. This can also prevent the network from becoming congested by a sudden spike in failed retries by one service to another, and it can also prevent cascading failures. Self-healing circuit breakers check the downstream service at regular intervals and reset the circuit breaker when the downstream service starts functioning properly.

<https://blogs.oracle.com/developers/gettingstarted-with-microservices-part-three>

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