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Oracle Cloud Infrastructure 2022 Architect Professional

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QUESTION 1

You are developing a Serverless function for your company's IoT project. This function should access Oracle Cloud Infrastructure (OCI) Object Storage to store some files. You choose Oracle Functions to deploy this function on OCI. However, your security team doesn't allow you to carry any API Token or RSA Key to authenticate the function against the OCI API to access the Object Storage.

What should you do to get this function to access OCI Object Storage without carrying any static authentication files? (Choose the best answer.)

- A. Set up a Dynamic Group using the format below: `ALL {resource.type = 'fnfunc', resource.compartment.id = 'ocid1.compartment.oc1..aaaaaaa23_____smwa' }` Create a policy using the format below to give access to OCI Object Storage:
- ```
allow dynamic-group acme-func-dyn-grp to manage objects in compartment acme-storage-compartment where all {target.bucket.name= 'acme-functions-bucket' }
```
- Include a call to a "resource principal provider" in your function code as below: `signer = oci.auth.signers.get_resource_principals_signer()`
- B. Add these two policy statements for your compartment and then include a call to a "resource principal provider" in your function code:
- ```
Allow group acme-functions-developers to inspect repos in tenancy
Allow group acme-functions-developers to manage repos in tenancy where all {target.repo.name=/acme-web-app*/}
```
- C. There is no way that you can access the OCI resources from a running function.
- D. Add these two policy statements for your compartment to give your function automatic access to all other OCI resources:
- ```
Allow group <group-name> to manage fn-app in compartment <compartment-name>
Allow group <group-name> to manage fn-function in compartment <compartment-name>
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

Explanation: <https://blogs.oracle.com/cloud-infrastructure/getting-started-with-oracle-functions-and-object-storage>

## QUESTION 2

Which three scenarios are suitable for the use of Oracle Cloud Infrastructure (OCI) Autonomous Transaction Processing - Serverless (ATP-S) deployment? (Choose three.)

A. A well-established, online auction marketplace is running an application where there is database usage 24x7, but also has peaks of activity that are hard to predict. When the peaks happen, the total activities may reach 3 times the normal activity level.

B. A midsize company is considering migrating its legacy on-premises MongoDB database to Oracle Cloud Infrastructure (OCI). The database has significantly higher workloads on weekends than weekdays.

C. A manufacturing company is running Oracle E-Business Suite application on-premises. They are looking to move this application to OCI and they want to use a managed database offering for their database tier.



D. A developer working on an internal project needs to use a database during work hours but doesn't need it during nights or weekends. The project budget requires her to keep costs low.

E. A small startup is deploying a new application for eCommerce and it requires a database to store customers' transactions. The team is unsure of what the load will look like since it is a new application.

Correct Answer: ADE

### QUESTION 3

You have an Oracle database system in a virtual cloud network (VCN) that needs to be accessible on port 1521 from your on-premises network CIDR 172.17.0.0/24.

You have the following configuration currently.

Virtual cloud network (VCD) is associated with a Dynamic Routing Gateway (DRG), and DRG has an active IPSec connection with your on-premises data center.

Oracle database system is hosted in a private subnet

The private subnet route table has the following configuration

The private subnet route table has following configuration.

☐ Destination ☐ 172.17.0.0/24 ☐ Target Type Dynamic Routing Gateways ☐ Target ASH-DRG

0 Selected

• The private subnet security list has following **INGRESS** security rule.

| <input type="checkbox"/> | Stateless | Source        | IP Protocol | Source Port Range | Destination Port Range | Type and Code | Allows                      |
|--------------------------|-----------|---------------|-------------|-------------------|------------------------|---------------|-----------------------------|
| <input type="checkbox"/> | Yes       | 172.17.0.0/24 | TCP         | All               | 1521                   |               | TCP traffic for ports: 1521 |

• The Oracle database system is part of a network security group with following security rules.

Add Rules Edit Remove

| <input type="checkbox"/> | Direction | Source or Destination | Protocol | Details | Description |
|--------------------------|-----------|-----------------------|----------|---------|-------------|
|--------------------------|-----------|-----------------------|----------|---------|-------------|

However, you are still unable to connect to the Oracle Database system. Which action will resolve this issue?



- ☐ A. Add an EGRESS rule in network security group as following.

| <input type="checkbox"/> | Destination | Target Type              | Target  |
|--------------------------|-------------|--------------------------|---------|
| <input type="checkbox"/> | 0.0.0.0/0   | Dynamic Routing Gateways | ASH-DRG |

- ☐ B. Add a route rule in the private subnet route table as following.

| <input type="checkbox"/> | Destination | Target Type              | Target  |
|--------------------------|-------------|--------------------------|---------|
| <input type="checkbox"/> | 0.0.0.0/0   | Dynamic Routing Gateways | ASH-DRG |

- ☐ C. Add an EGRESS rule in private subnet security list as following.

| <input type="checkbox"/> | Stateless | Destination   | IP Protocol | Source Port Range | Destination Port Range | Type and Code | Allows                      |
|--------------------------|-----------|---------------|-------------|-------------------|------------------------|---------------|-----------------------------|
| <input type="checkbox"/> | Yes       | 172.17.0.0/24 | TCP         | 1521              | All                    |               | TCP traffic for port s: All |

- ☐ D. Add an EGRESS rule in private subnet security list as following.

| <input type="checkbox"/> | Stateless | Destination   | IP Protocol | Source Port Range | Destination Port Range | Type and Code | Allows                       |
|--------------------------|-----------|---------------|-------------|-------------------|------------------------|---------------|------------------------------|
| <input type="checkbox"/> | No        | 172.17.0.0/24 | TCP         | All               | 1521                   |               | TCP traffic for port s: 1521 |

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

#### QUESTION 4

A developer is using Oracle Functions to deploy her code as part of an event-driven solution in Oracle Cloud Infrastructure (OCI). When she invokes her function, Oracle Functions returns a `FunctionInvokeImageNotAvailable` message and a 502 error:

```
{"code": "FunctionInvokeImageNotAvailable", "message": "Failed to pull function image"}
```

```
Fn: Error invoking function. status: 502 message: Failed to pull function image
```

Which of the following options is NOT a plausible reason for this error?

A. Missing or invalid IAM policy to give Oracle Functions read access to images stored for functions in repositories in OCI Registry.

B. The function does not exist in the specified location in OCI Registry.



C. The VCN being used does not have an internet gateway or a service gateway configured for Oracle Functions to be able to access OCI Registry.

D. OCI Events service rule is not configured with the correct location of the function in OCI Registry.

Correct Answer: D

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## QUESTION 5

A telecom company has an application running in Oracle Cloud Infrastructure (OCI) Germany Central (eu-frankfurt-1) region. They want to configure Disaster Recovery (DR) site in the OCI UK South (uk-london-1) region. Which is the most cost effective option to help set up application and persistence layers in the DR site?

A. Application layer: configure events service rule in eu-frankfurt-1 region to filter Health Checks event failure and route traffic to uk-london-1 region in the event of a disaster. Persistence layer: set up policy to schedule cross-region automated backups of block volumes between eu-frankfurt-1 and uk-london-1 regions.

B. Application layer: configure Traffic Management steering policy with Load Balancing policy between servers in eu-frankfurt-1 and uk-london-1 regions. Persistence layer: set up policy to schedule cross-region automated backups of block volumes between eu-frankfurt-1 and uk-london-1 regions.

C. Application layer: Set up a public load balancer in the eu-frankfurt-1 region. Create a backend set with instances running in both eu-frankfurt-1 and uk-london-1 regions. Persistence layer: Set up OCI Object Storage replication from eu-frankfurt-1 region to uk-london-1 region.

D. Application layer: configure Traffic Management steering policy with Failover policy between servers in eu-frankfurt-1 and uk-london-1 regions. Persistence layer: set up policy to schedule cross-region automated backups of file systems in File Storage service between eu-frankfurt-1 and uk-london-1 regions.

Correct Answer: B

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