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Oracle Cloud Infrastructure 2020 Architect Professional

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QUESTION 1

Which of the following is NOT a good use case for the Oracle Cloud Infrastructure (OCI) Streaming service?

- A. Meeting compliance requirements for data to remain unchanged over a long time, so that it can be retrieved for audit purposes.
- B. Messaging with a pull-based communication model and the ability to feed multiple consumers with the same data independently.
- C. Ingesting metric and log data to help make critical operational data more quickly available for indexing, analysis, and visualization.
- D. Providing a unified entry point for cloud components to report their life cycle events for audit, accounting, and related activities.

Correct Answer: A

QUESTION 2

Your company developed a function that needs to access the Oracle Database to inject some data to it at runtime. You are tasked to move this function to the

Oracle Cloud Infrastructure (OCI) and use Oracle Functions and access Oracle Autonomous Database. You created a Dockerfile below to run this function, however, you are getting this error "cx_Oracle.DatabaseError: ORA""12560: TNS:protocol adapter error".

Dockerfile:

```
FROM oraclelinux:7-slim

RUN yum -y install oracle-release-el7 oracle-nodejs-release-el7 && \
yum-config-manager --disable o17_developer_EPEL && \
yum -y install oracle-instantclient19.3-basiclite nodejs && \
rm -rf /var/cache/yum

WORKDIR /function
ADD . /function/
RUN npm install

CMD exec node func.js
```

What should you do to make sure that Oracle Functions can run this Dockerfile properly? (Choose the best answer.)

- A. Add these two lines to your Dockerfile: groupadd ""gid 1000 fn andand \ adduser ""uid 1000 ""gid fn fn
- B. Use ""privileged flag while running the Docker container to add runtime privilege
- C. Use ""cap""add=ALL flag while running the Docker container to add runtime capability



D. You need to run this Container as root, so add this line: USER root

Correct Answer: A

<https://docs.cloud.oracle.com/en-us/iaas/Content/Functions/Tasks/functionsrunningasunprivileged.htm>

QUESTION 3

A hospital in Austin has hosted its web based medical records portal entirely in Oracle cloud Infrastructure (OCI) using Compute Instances for its web-tier and DB system database for its data tier. To validate compliance with Health Insurance Portability and Accountability (HIPAA), the security professional to check their systems it was found that there are a lot of unauthorized incoming requests coming from a set of IP addresses originating from a country in Southeast Asia.

Which option can mitigate this type of attack?

- A. Block the attacking IP address by creating a Network Security Group rule to deny access to the compute Instance where the web server is running
- B. Block the attacking IP address by implementing a OCI Web Application Firewall policy using Access Control Rules
- C. Mitigate the attack by changing the Route table to redirect the unauthorized traffic to a dummy Compute instance
- D. Block the attacking IP address by creating a Security List rule to deny access to the subnet where the web server is running

Correct Answer: B

WAF can protect any internet facing endpoint, providing consistent rule enforcement across a customer's applications. WAF provides you with the ability to create and manage rules for internet threats including Cross-Site Scripting (XSS), SQL Injection and other OWASP-defined vulnerabilities. Unwanted bots can be mitigated while tactically allowing desirable bots to enter. Access rules can limit based on geography or the signature of the request. As a WAF administrator you can define explicit actions for requests that meet various conditions. Conditions use various operations and regular expressions. A rule action can be set to log and allow, detect, or block requests

QUESTION 4

A large London based eCommerce company is running Oracle DB System Virtual RAC database on Oracle Cloud Infrastructure (OCI) for their eCommerce application activity. They are launching a new product soon, which is expected to sell in large quantities all over the world.

The application architecture should have minimal cost, no data loss, no performance impacts during the database backup windows and should have minimal downtime.

- A. Launch a new VM RAC database in another availability domain, launch a compute instance, deploy Oracle GoldenGate on it and then configure it to replicate the data from the eCommerce Database over to the new RAC database using GoldenGate. Take backups from the new VM RAC database.
- B. Turn off automated backups from the eCommerce database, implement Oracle Data Guard with the Standby database deployed on another availability domain, take backups from the standby database.
- C. Launch a new VM RAC database in another availability domain, launch a compute instance, deploy Oracle GoldenGate on it and then configure bi-directional replication from the eCommerce Database over to the new VM RAC



database using GoldenGate. Take backups from the new VM RAC database.

D. Turn off automatic backups from the eCommerce database, implement Oracle Active Data Guard with the standby database deployed on another availability domain, and take backups from the standby database.

Correct Answer: C

Active Data Guard or GoldenGate are used for disaster recovery when fast recovery times or additional levels of data protection are required. And offload queries and backup to standby system.

Oracle GoldenGate to support a disaster recovery site is to have a working bi-directional data flow, from the primary system to the live-standby system and vice versa.

DataGuard and Automatic Backup

You can enable the Automatic Backup feature on a database with the standby role in a Data Guard association. However, automatic backups for that database will not be created until it assumes the primary role.

QUESTION 5

A company runs a public-facing application that uses a Java-based web service via a RESTful API in their on-premises data center. Use of the API is expected to double with a new product launch. The business wants to migrate their application to Oracle Cloud Infrastructure (OCI) to meet the scale and reliability requirements. In order to achieve this, they will divert only 40% of the traffic to the new Apache Tomcat web servers running on OCI and serve the remaining 60% traffic through their on-premises infrastructure. Once the migration is complete and application works fine, they will divert all traffic to OCI. How can these requirements be met with the LEAST amount of effort?

- A. Use OCI Traffic management service with failover steering policy and distribute the traffic between OCI and on premises infrastructure.
- B. Use OCI Traffic management service with Load Balancing steering policy and distribute the traffic between OCI and on premises infrastructure.
- C. Use an OCI load Balancer and distribute the traffic between OCI and on premises infrastructure.
- D. Use VPN connectivity between on premises Infrastructure and OCI and create routing tables to distribute the traffic between them.

Correct Answer: B

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