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QUESTION NO: 1

To serve web traffic for a popular product, your cloud engineer has provisioned four BM.Standard2.52 instances, evenly spread across two availability domains in the us-ashburn-1 region; LoadBalancer is used to deliver the traffic across instances.

After several months, the product grows even more popular and you need additional compute capacity. As a result, an engineer provisioned two additional VM.Standard2.8 instances.

You register the two VM.Standard2.8 instances with your Load Balancer Backend set and quickly find that the VM.Standard2.8 instances are now running at 100% of CPU utilization but the BM.Standard2.52 instances have significant CPU capacity that's unused.

Which option is the most cost effective and uses instances capacity most effectively? (Choose the best answer.)

A. Configure Autoscaling instance pool with LoadBalancer to add up to 3 more BM.Standard2.52 instances when triggered. Shut off VM.Standard2.8 instances.

B. Configure LoadBalancer with two VM.Standard2.8 instances and use Autoscaling instance pool to add up to two additional VM.Standard2.8 instances. Shut off BM.Standard2.52 instances.

C. Route traffic to BM.Standard2.52 and VM.Standard2.8 instances directly using DNS and Health Checks. Shut off the Load Balancer.

D. Configure your Load Balancer with weighted round robin policy to distribute traffic to the compute instances, with more weight assigned to bare metal instances.

ANSWER: A

QUESTION NO: 2

A retail company runs their online shopping platform entirely on Oracle Cloud Infrastructure (OCI). This is a 3-tier web application that includes a 100 Mbps Load Balancer, Virtual Machine Instances for web and application tiers, and an Oracle DB Systems Virtual Machine. Due to unprecedented growth, they noticed an increase in the incoming traffic to their website and all users start getting 503 (Service Unavailable) errors.

What is the potential problem in this scenario? (Choose the best answer.)

A. You did not configure a Service Gateway to allow connection between web servers and Load Balancer.

B. The Traffic Management Policy is not set to Load Balancer the traffic to the web servers.

C. The Load Balancer health check status indicates critical situation for half of the backend web servers.

D. The Database is down hence users cannot access the web site.

E. All the web servers are too busy and not able to answer any request from users.

ANSWER: C

QUESTION NO: 3

A large London based eCommerce company is running Oracle DB Systems Virtual Machine RAC database on Oracle Cloud Infrastructure (OCI) for their eCommerce application in the uk-london1 region. They are currently taking automatic backups of the database, as configured during the database provisioning 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.

What is the most efficient and cost-effective mechanism of modifying the database deployment architecture to meet these application goals? (Choose the best answer.)

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

B. 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.

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 GoldenDate. Take backup from the new VM RAC database.

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

ANSWER: D

QUESTION NO: 4

You work for a public health care company based in the United States. Their existing patient records system runs in an on-premise data center and the customer is sending tape backups offsite as part of their disaster recovery planning.

You developed an alternative archival solution using Oracle Cloud Infrastructure (OCI) that will save the company a significant amount of money on a yearly basis. The solution involves storing data in an OCI Object Storage bucket. After reviewing your solution with the customer Global Risk and Compliance (GRC) team, they highlighted four security requirements:

- All data less than 1 year old must be accessible within 2 hours
- All data must be retained for at least 10 years and be accessible within 48 hours
- All data must be encrypted at rest
- No data may be transmitted across the public internet

Which two options meet the requirements outlined by the customer GRC team? (Choose two.)

A. Provision a FastConnect link to the closest OCI region and configure a private peering virtual circuit.

B. Provision a FastConnect link to the closest OCI region and configure a public peering virtual circuit.

C. Create an OCI Object Storage Standard tier bucket. Configure a lifecycle policy to archive any object that is older than 365 days.

D. Create an OCI Object Storage Standard tier bucket. Configure a lifecycle policy to delete any object that is older than 7 years.

E. Create a VPN connection between your on-premises data center and OCI. Create a Virtual Cloud Network (VCN) along with an OCI Service Gateway for OCI Object Storage.

ANSWER: B C

QUESTION NO: 5

A new international hacktivist group, based in London, launched wide scale cyber attacks including SQL Injection and Cross-Site Scripting (XSS) across multiple websites which are hosted in Oracle Cloud Infrastructure (OCI). As an IT consultant, you must configure a Web Application Firewall (WAF) to protect these websites against the attacks.

How should you configure your WAF to protect the website against those attacks? (Choose the best answer.)

A. Enable a Protection Rule to block the attacks based on HTTP Headers that contain XSS and SQL strings.

B. Enable an Access Rule to block the IP Address range from London.

C. Enable a Protection Rule to block requests XSS Filters Categories and SQL Filters Categories.

D. Enable a Protection Rule to block requests that came from London.

E. Enable an Access Rule that contains XSS Filters Categories and SQL Filters Categories.

ANSWER: C

Explanation:

Reference: https://docs.cloud.oracle.com/en-us/iaas/Content/WAF/Reference/protectionruleids.htm

QUESTION NO: 6

You are responsible for migrating your on-premises legacy databases on 11.2.0.4 version to Autonomous Transaction Processing – Dedicated (ATP–D) in Oracle Cloud Infrastructure (OCI). As a solution architect, you need to plan your migration approach.

Which two options do you need to implement together to migrate your on-premises databases to OCI? (Choose two.)

A. Use Oracle GoldenGate replication to keep on-premises database online during migration.

B. Convert on-premises databases to PDB, upgrade to 19c, and encrypt.

C. Use Oracle Data Guard to keep on-premises database always active during migration.

D. Retain changes to Oracle shipped privileges, stored procedures or views in the on-premises databases.

E. Retain all legacy structures and unsupported features (e.g. legacy LOBs) in the on-premises databases for migration.

ANSWER: B C

QUESTION NO: 7

You work for a bank as the lead Oracle Cloud Infrastructure architect. You designed a highly scalable solution for your company's banking application. The architecture includes a load balancer, application servers with autoscaling configuration based on CPU utilization, and an Autonomous Database with Transaction Processing workload type running in a Virtual Cloud Network (VCN).

During the peak utilization period, the application users complain that the application runs slow.

What are two possible reasons for the application running slow at times? (Choose two.)

A. The VCN does not have a Network Security Group configured to allow traffic from the load balancer to all the application servers in the backend set.

B. Instance pool in autoscaling configuration for the application servers did not scale out due to compartment quota breach of the VM shapes used by the application servers.

C. The load balancer is not configured correctly to send traffic to all the listeners of the application servers in the backend set.

D. Instance pool in autoscaling configuration for the Autonomous Database did not scale out due to misconfigured scaling policy.

E. Instance pool in autoscaling configuration for the application servers did not scale out due to service limit breach of the VM shapes used by the application servers.

ANSWER: B D

QUESTION NO: 8

As a part of a migration exercise for an existing on-premises application to Oracle Cloud Infrastructure (OCI), you are required to transfer a 7 TB file to OCI Object Storage. You have decided to upload it using the multipart upload functionality of Object Storage.

Which two statements are true? (Choose two.)

A. It is possible to split this file into multiple parts using rclone tool provided by Object Storage.

B. Contiguous numbers need to be assigned for each part so that Object Storage constructs the object by ordering part numbers in ascending order.

C. After initiating a multipart upload by making a CreateMultiPartUpload REST API Call, the upload remains active until you explicitly commit it or about it.

D. It is possible to split this file into multiple parts using the APIs provided by Object Storage.

E. Active multipart upload can be checked by listing all parts that have been uploaded, however it is not possible to list information for an individual object part in an active multipart upload.

ANSWER: B C

Explanation:

Reference: https://docs.cloud.oracle.com/en-us/iaas/Content/Object/Tasks/usingmultipartuploads.htm

QUESTION NO: 9

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-e17 oracle-nodejs-release-e17 && \
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 && \ 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 ned to run this Container as root, so add this line:
USER root

ANSWER: C

QUESTION NO: 10

After performing maintenance on an Oracle Linux compute instance the system is returned to a running state. You attempt to connect using SSH but are unable to do so. You decide to create an instance console connection to troubleshoot the issue.

Which three tasks would enable you to connect to the console connection and begin troubleshooting? (Choose three.)

A. Stop the compute instance using the Oracle Cloud Infrastructure (OCI) Command Line Interface (CLI).

B. Reboot the compute instance using the Oracle Cloud Infrastructure (OCI) Management Console.

C. Edit the Linux boot menu to enable access to console.

D. Upload an API signing key for console connection authentication.

E. Use SSH to connect to the public IP address of the compute instance and provide the console connection OCID as the username.

F. Use SSH to connect to the service endpoint of the console connection service.

ANSWER: B C F

Explanation:

Reference: https://oracle.github.io/learning-library/oci-library/L200-LAB/Compute-Console-Connection/HOL-Console-Connection.html