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Oracle Cloud Infrastructure 2020 Architect Professional

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QUESTION 1

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

QUESTION 2

You want to automate the processing of new Image files to generate thumbnails. the expected rate is 10 new files every hour. Which of the following is the most cost effective option to meet this requirement in Oracle Cloud Infrastructure (OCI)?

A. Upload files to an OCI Object storage bucket. Every time a file is uploaded, an event is emitted. Write a rule to filter these events with an action to trigger a function in Oracle Functions. The function processes the image in the file and stores the thumbnails back in an Object storage bucket.

B. Upload files to an OCI Object storage bucket. Every time a file is uploaded, trigger an event with an action to provision a compute instance with a cloud-init script to access the file, process it and store it back in an Object storage bucket. Terminate the instance using Autoscaling policy after the processing is finished.

C. Build a web application to ingest the files and save them to a NoSQL Database. Configure OCI Events service to trigger a notification using Oracle Notification Service (ONS). ONS invokes a custom application to process the image files to generate thumbnails. Store thumbnails in a NoSQL Database table.

D. Upload all files to an Oracle Streaming Service (OSS) stream. Set up a cron job to invoke a function in Oracle Functions to fetch data from the stream. Invoke another function to process the image files and generate thumbnails. Store thumbnails in another OSS stream.

Correct Answer: A

You can invoke a function that you\'ve deployed to Oracle Functions by triggered by an event in the Events service when update the Object storage to fetch the data then the function can process the File and store back to Object storage
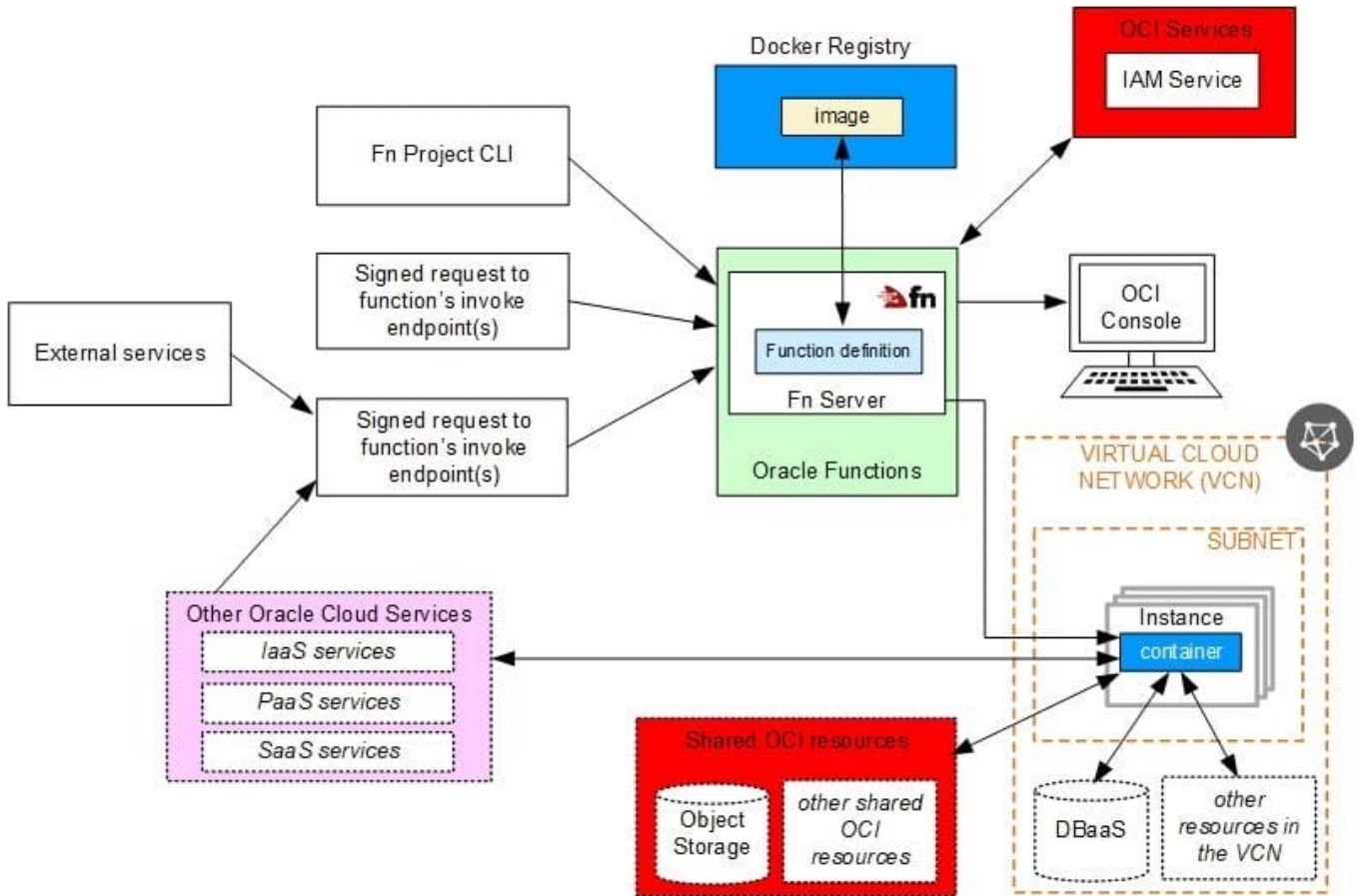
QUESTION 3

You are running a legacy application in a compute instance on Oracle Cloud Infrastructure (OCI). To provide enough space for it to store internal data, a block volume is attached to the instance in paravirtualized mode.

Your application is not resilient to crash-consistent backup.

What should you do to backup the block volume in a secure and cost effective way? (Choose the best answer.)

A. Save your application data, detach the block volume and create a clone.

B. Create a volume group, add the boot volume and then run the volume group backup.

C. Create a backup, detach the block volume and save your application data.

D. Save your application data, detach the block volume and create a backup.

Correct Answer: D

QUESTION 4

An eCommerce company is running on Oracle Cloud Infrastructure (OCI) and many compute instances remain unused for the most part of the year except during Black Friday and Christmas. You suggest them to use OCI\\'s

Autoscaling feature and present them a slide to showcase the features of Autoscaling.

Which option below is inaccurate in your presentation to the customer?

A. A cooldown period between Autoscaling events lets the system stabilize at the updated level.

B. When an instance pool scales in, instances are terminated in this order: the number of instances is balanced across Availability Domains, and then balanced across Fault Domains. Finally, within a Fault Domain, the newest instance is terminated first.

C. Autoscaling relies on performance metrics such as CPU utilization that are collected by OCI Monitoring service to trigger an Autoscaling event.

D. Autoscaling requires an instance pool as a pre-requisite so that it can automatically adjust the number of compute instances in an instance pool.

Correct Answer: B

QUESTION 5

A data analytics company has been building Its now generation big data and analytics platform on Oracle Cloud Infrastructure (OCI). They need a storage service that provide the scale and performance that their big data applications require such as high throughput to compute nodes with low latency file operations in addition, their data needs to be stored redundantly across multiple nodes In a single availability domain and allows concurrent connections from multiple compute Instances hosted on multiple availability domains. Which OCI storage service can you use to meet i his requirement?

A. Object Storage

B. File System Storage

C. Archive storage

D. Block Volume

Correct Answer: B

Oracle Cloud Infrastructure File Storage service provides a durable, scalable, secure, enterprise-grade network file system. You can connect to a File Storage service file system from any bare metal, virtual machine, or container instance in your Virtual Cloud Network (VCN). You can also access a file system from outside the VCN using Oracle Cloud Infrastructure FastConnect and Internet Protocol security (IPSec) virtual private network (VPN). Use the File Storage service when your application or workload includes big data and analytics, media processing, or content management, and you require Portable Operating System Interface (POSIX)- compliant file system access semantics and concurrently accessible storage. The File Storage service is designed to meet the needs of applications and users that need an enterprise file system across a wide range of use cases

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