Vendor: Oracle

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Exam Name: Oracle Cloud Infrastructure 2021 Architect Professional

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QUESTION 1

You have an application running in Microsoft Azure and want to use Oracle Autonomous Data warehouse (ADW) instance for running business analytics. How can you build a secure solution for such a use-case?

A. Connect the Oracle ADW in your VCN to the Microsoft Azure VNet over the internet.

B. Create a software VPN connection between Oracle Cloud Infrastructure (OCI) Virtual Cloud Network (VCN) and Microsoft Azure Virtual Network (VNet) and connect the application with Oracle ADW instance.

C. Setup an interconnect between OCI and Microsoft Azure using FastConnect and ExpressRoute. Use a Service Gateway in OCI Virtual Cloud Network to provide connectivity to the Oracle ADW instance for the application in Microsoft Azure VNet.

D. Create a software Remote Peering Connection between Oracle Cloud Infrastructure (OCI) Virtual Cloud Network (VCN) and Microsoft Azure Virtual Network (VNet) and connect the application with Oracle ADW instance.

Correct Answer: C

QUESTION 2

You are advising the database administrator responsible for managing non-production environment for Oracle Autonomous Database running on Oracle Cloud Infrastructure. You need to help the database administrator ensure that the non-production environments have a copy of the current data from the production environment in a manner that is most time-efficient. Which method should you recommend? (Choose the best answer.)

A. Take a full database backup of the production Autonomous database and create the non- production database from it.

B. Create a metadata clone of the production Autonomous Database and create the non-production database from it.

C. Create a full clone of the production Autonomous Database and create the non-production database from it.

D. Take a Data Pump export of the production Autonomous database and import into the non- production database.

Correct Answer: C

https://www.oracle.com/database/technologies/datawarehouse-bigdata/adb-faqs.html

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QUESTION 3

You are a solutions architect for a global health care company which has numerous data centers around the globe. Due to the ever growing data that your company is storing, you were Instructed to set up a durable, cost effective solution to archive you data from your existing on-premises tape based backup Infrastructure to Oracle Cloud Infrastructure (OCI). What is the most-effective mechanism to Implement this requirement?

A. Use the File Storage Service in OCI and copy the data from your existing tape based backup to the shared file system

B. Setup an on premises OCI Storage Gateway which will back up your data to OCI Object Storage Archive tier.(Correct)

C. Setup an on premises OCI Storage Gateway which will back up your data to OCI object Storage Standard tier. Use Object Storage life cycle policy management to move any data older than 30 days from Standard to Archive tier.

D. Setup an on-promises OCI Storage Gateway which will back up your data to OCI Object Storage Standard

E. Setup fastConnect to connect your on premises network to your OCI VCN and use rsync tool to copy your data to OCI Object Storage Archive tier.

Correct Answer: B

Oracle Cloud Infrastructure offers two distinct storage tiers for you to store your unstructured data. Use the Object Storage Standard tier for data to which you need fast, immediate, and frequent access. Use the Archive Storage service\\'s Archive tier for data that you access infrequently, but which must be preserved for long periods of time. Both storage tiers use the same manageable resources (for example, objects and buckets). The difference is that when you upload a file to Archive Storage, the object is immediately archived. Before you can access an archived object, you must first restore the object to the Standard tier. you can use Storage Gateway to move files to Oracle Cloud Infrastructure Archive Storage as a cost effective backup solution. You can move individual files and compressed or uncompressed ZIP or TAR archives. Storing secondary copies of data is an ideal use case for Storage Gateway.

QUESTION 4

You work for a large bank where your main application is a payment processing gateway API. You deployed the application on Oracle Container Engine for Kubernetes (OKE) and used API Gateway with several policies to control the access of the API endpoint. However, your customers are complaining about the unavailability of the API endpoint. Upon checking, you noticed that the Gateway URL is throwing Service Unavailable error. You need to check the backend latency and backend responses when this error started last night. What should you do to get this data? (Choose the best answer.)

A. Check with the application owner and search the log file for the container to get the metrics from the log file.

B. Go to Governance Menu and click on Audit to see the Audit log for the API Gateway. Filter it using Start and End date with a 503 response status.

C. Go to Developer Services and click on API Gateway. Go to the detail page of the gateway and select Metrics. Change the Start and End time to filter the metrics.

D. Go to Monitoring and click on Service Metrics. Choose the Metric Namespace as oci_apigateway. Change the Start and End time accordingly. Add a Dimension and select httpStatusCode: 503. Check the backend latency and backend responses metric.

Correct Answer: D

https://medium.com/oracledevs/using-oci-monitoring-healthchecks-to-schedule-execution-of- serverlessfunctions-on-oracle-cloud-ef233f887a5

QUESTION 5

As a part of migration exercise for an existing on premises application to Oracle Cloud Infrastructure

(OCT), yon ore required to transfer a 7 TB file to OCI Object Storage. You have decided to upload

functionality of Object Storage.

Which two statements are true?

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

B. It is possible to spill this fileInto multiple parts using the APIs provided by Object Storage.

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

D. After initiating a multipart upload by making a CreateMultlPartUpload RESI API Call, the upload remains active until you explicitly commit it or abort.

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

Correct Answer: AD

You can check on an active multipart upload by listing all parts that have been uploaded. (You cannot list information for an individual object part in an active multipart upload.) After you finish creating object parts, initiate a multipart upload by making a CreateMultipartUpload REST API call. Provide the object name and any object metadata. Object Storage responds with a unique upload ID that you must include in any requests related to this multipart upload. Object Storage also marks the upload as active. The upload remains active until you explicitly commit it or abort it.

QUESTION 6

A digital marketing company is planning to host a website on Oracle Cloud Infrastructure (OCI) and leverage OCI Container Engine for Kubernetes (OKE). The web server will make API calls to access OCI Object Storage to store all images uploaded by users. For security purposes, your manager instructed you to ensure that the credentials used by the web server to allow access not stored locally on the compute instance. What solution results in an Implementation with the least effort for this scenario?

A. Configure the credentials using Instance Principal to allow the web server to make API calls to OCl Object Storage

B. Configure the credentials using OCI Registry (OC1R) which will automatically connect with OKE allowing the web server to make API calls to OCI Object Storage.

C. Configure the credentials to use Transparent Data Encryption (TDE) which will automatically allow the web server to make API calls to OCl Object Storage.

D. Configure the credentials using OCI Key Management to allow an instance to make API calls and grant access to OCl Object Storage.

Correct Answer: A

QUESTION 7

By copying block volume backups to another region at regular intervals, it makes it easier for you to rebuild applications and data in the destination region if a region-wide disaster occurs in the source region. Which IAM Policy statement allows the VolumeAdmins group to copy volume backups between regions \\'

A. Allow group VolumeAdmins to use volumes in tenancy

B. Allow group VolumeAdmins to copy volume\\' backups in tenancy

C. Allow group VolumeAdmins to manage volume-family In tenancy

D. Allow group VolumeAdmins to inspect volumes in tenancy

Correct Answer: C

The backups feature of the Oracle Cloud Infrastructure Block Volume service lets you make a point- intime snapshot of the data on a block volume.These backups can then be restored to new volumes either immediately after a backup or at a later time that you choose. You can copy block volume backups between regions using the Console, command line interface (CLI), SDKs, or REST APIs. To copy volume backups between regions, you must have permission to read and copy volume backups in the source region, and permission to create volume backups in the destination region. to do all things with block storage volumes, volume backups, and volume groups in all compartments with the exception of copying volume backups across regions. Allow group VolumeAdmins to manage volume-family in tenancy The aggregate resource type volume-family does not include the VOLUME_BACKUP_COPY permission, so to enable copying volume backups across regions you need to ensure that you include the third statement in that policy, which is: Allow group VolumeAdmins to use volume-backups in tenancy where request.permission=\\'VOLUME _BACKUP_COPY\\'

QUESTION 8

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 9

An online Stock trading application is deployed to multiple Availability Domains in the us phoenix-1 region. Considering the high volume of transactions that the trading application handles, the company has hired you to ensure that the data stored by the application available, and disaster resilient. In the event of failure, the Recovery lime Objective (UK)) must be less than 2 hours to meet regulator requirements. Which Disaster Recovery strategy should be used to achieve the RTO requirement In the event of system failure?

A. Configure hourly block volumes backups through the Storage Gateway service.

B. Configure hourly block volumes backups using the Oracle Cloud Infrastructure (OCI) Command Line Interface (CLI)

C. Store hourly block volumes backup to NVMe device under a compute instance and generate a custom Image every 5 minutes.

D. Configure your application to use synchronous master slave data replication between Availability Domains.

Correct Answer: B

You can use the CLI, REST APIs, or the SDKs to automate, script, and manage volume backups and their lifecycle. Planning Your Backup The primary use of backups is to support business continuity, disaster recovery, and long-term archiving requirements. When determining a backup schedule, your backup plan and goals should consider the following: Frequency: How often you want to back up your data. Recovery time: How long you can wait for a backup to be restored and accessible to the applications that use it. The time for a backup to complete varies on several factors, but it will generally take a few minutes or longer, depending on the size of the data being backed up and the amount of data that has changed since your last backup. Number of stored backups: How many backups you need to keep available and the deletion schedule for those you no longer need. You can only create one backup at a time, so if a backup is underway, it will need to complete before you can create another one. For details about the number of backups you can store

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QUESTION 10

An insurance company is storing critical financial data in the Oracle Cloud Infrastructure block volume.

This volume is currently encrypted using oracle managed keys. Due to regulatory compliance, the

customer wants to encrypt the data using the keys that they can control and not the keys which are

controlled by Oracle.

What of the following series of tasks are required to encrypt the block volume using customer managed

keys?

A. Create a master encryption key, create a data encryption key, decrypt the block volume using existing oracle managed keys, encrypt the block volume using the data encryption key.

B. Create a vault import your master encryption key into the vault, generate data encryption key, assign data encryption key to the block volume.

C. Create a master encryption key, create a new version of the encryption key, decrypt the block volume using existing oracle managed keys and encrypt using new version of the encryption key.

D. Create a vault, create a master encryption key in the vault, assign this master encryption key to the block volume.

Correct Answer: D

QUESTION 11

An online registration system Is currently hosted on one large Oracle Cloud Infrastructure (OCT) Bare metal compute Instance with attached block volume to store of the users\\' dat

A. The registration system accepts the Information from the user, Including documents and photos then performs automated verification and processing to check it the user is eligible for registration. The registration system becomes unavailable at tunes when there is a surge of users using the system the existing architecture needs improvement as it takes a long time for the system to complete the processing and the attached block volumes are not large enough to use data being uploaded by the users. Which Is the most effective option to achieve a highly scalable solution?

B. Attach more Block volumes as the data volume increase, use Oracle Notification Service (ONS) to distribute tasks to a pool of compute instances working In parallel, and Auto Scaling to dynamically size the pool of Instances depending

on the number of notifications received from the Notification Service. Use Resource Manager stacks to replicate your architecture to another region.

C. Change your architecture to use an OCI Object Storage standard tier bucket, replace the single bare metal instance with a Oracle Streaming Service (OSS) to ingest the Incoming requests and distribute the tasks to a group of compute Instances with Auto Scaling

D. Upgrade your architecture to use a pool of Bare metal servers and configure them to use their local SSDs for faster data access Set up Oracle Streaming Service (OSS) to distribute the tasks to the pool of Bare metal Instances with Auto Scaling to dynamically increase or decrease the pool of compute instances depending on the length of the Streaming queue.

E. Upgrade your architecture to use more Block volumes as the data volume Increases. Replace the single bare metal instance with a group of compute instances with Auto Scaling to dynamically increase or decrease the compute instance pools depending on the traffic.

Correct Answer: D

QUESTION 12

You have configured backups for your Oracle Cloud Infrastructure (OCI) 2-node RAC DB systems on virtual machines. In the console, the database backup displays a Failed status. Which of the following options is the most likely reason for this backup issue?

A. The master key stored in OCI Key Management for encryption and decryption of data in the database is not accessible to the backup service.

B. The auth token being used by the Object Store Swift endpoint is incorrect.

C. The allocated storage on the OCI File Storage service file system attached with the database is full.

D. The RMAN backup agent is not compatible with the version of database being used.

Correct Answer: B