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Oracle Cloud Infrastructure 2021 Architect Professional

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QUESTION 1

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 all files to an Oracle Streaming Service (OSS) stream. Setup 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.
- B. 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.
- 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 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.

Correct Answer: B

QUESTION 2

You have deployed a multi-tier application with multiple compute instances in Oracle Cloud Infrastructure.

You want to back up these volumes and have decided to use Volume Groups feature. The Block volume and Compute instances exist in different compartments within your tenancy. Periodically, a few child compartments are moved under different parent compartments, and you notice that sometimes volume group backup fails.

What could be the cause?

- A. The Identity and Access Management policy allowing backup failed to move when the compartment was moved.
- B. You are exceeding your volume group backup quota configured.
- C. You have the same block volume attached to multiple compute instances; if these compute instances are in different compartments then all concerned compartments must be moved at the same time.
- D. A compute instance with multiple block volumes attached cannot move when a compartment is moved.

Correct Answer: A



QUESTION 3

You are working on the migration of the web application infrastructure of your company from on-premises to Oracle Cloud Infrastructure. You need to ensure that the DNS cache entries of external clients will not direct them to the on-premises infrastructure after switching to the new infrastructure.

Which of the following options will minimize this problem?

- A. Reduce the TTL of the DNS records after the switch.
- B. DNS changes propagate fast enough that it is not necessary to take any action.
- C. Increase the TTL of the DNS records before the switch.
- D. Increase the TTL of the DNS records after the switch.
- E. Reduce the TTL of the DNS records before the switch.

Correct Answer: E

QUESTION 4

Your organization is planning on using Oracle Cloud Infrastructure (OCI) File Storage Service (FSS). You will be deploying multiple compute instances in Oracle Cloud Infrastructure (OCI) and mounting the file system to these compute instances. The file system will hold payment data processed by a Database instance and utilized by compute instances to create an overall inventory report. You need to restrict access to this data for specific compute instances and must be allowed/blocked per compute instance's CIDR block. Which option can you use to secure access?

- A. Use stateless Security List rule to restrict access from known IP addresses only.
- B. Create a new VCN security list, choose SOURCE TYPE as Service and SOURCE SERVICE as FSS. Add stateless ingress and egress rules for specific IP address and CIDR blocks.
- C. Use 'Export option' feature of FSS to restrict access to the mounted file systems.
- D. Create and configure OCI Web Application Firewall service with built-in DNS-based intelligent routing.

Correct Answer: C

NFS export options enable you to create more granular access control than is possible using just security list rules to limit VCN access. You can use NFS export options to specify access levels for IP addresses or CIDR blocks connecting to file systems through exports in a mount target. Access can be restricted so that each client's file system is inaccessible and invisible to the other, providing better security controls in multi-tenant environments. Using NFS export option access controls, you can limit clients' ability to connect to the file system and view or write data. For example, if you want to allow clients to consume but not update resources in your file system, you can set access to Read Only. You can also reduce client root access to your file systems and map specified User IDs (UIDs) and Group IDs (GIDs) to an anonymous UID/GID of your choice. For more information about how NFS export options work with other security layers



QUESTION 5

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

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