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Oracle Cloud Infrastructure 2022 Architect Professional

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QUESTION 1

You developed a microservices based application that runs on Oracle Cloud Infrastructure (OCI) Container Engine for Kubernetes (OKE). It has multiple endpoints that needs to be exposed to the public internet.

What Is the most cost-effective way to expose multiple application endpoints without adding complexity to the application?

- A. Use clusterIP service type in Kubernetes for each of your service endpoint and use a load balancer to expose the endpoints.
- B. Use separate load balancer instance for each service but use the 100 Mbps load balancer option.
- C. Deploy an Ingress controller and use it to expose each endpoint with its own routing endpoint.
- D. Use NodePort service type in Kubernetes for each of your service endpoint and use node's public IP address to access the applications.

Correct Answer: C

QUESTION 2

You are working as a security consultant with a global insurance organization which is using Microsoft Azure Active Directory (AD) as identity provided to manager user login/passwords. When a user logs in to Oracle Cloud infrastructure (OCI) console, it should get authenticated by Azure AD.

Which set of steps are required to configure at OCI side in order to get it enabled

- A. Setup Azure AD as an Enterprise Application, map Azure AD users and groups and policies to OCI groups and users
- B. Setup Azure AD as an Identity Provider, Import users and groups from Azure AD to OCI, set up IAM policies to govern access to Azure AD groups
- C. Setup Azure AD as an Enterprise Application, configure OCI for single sign-on, map Azure AD groups to OCI groups, set up the IAM policies to govern access to Azure AD groups
- D. Setup Azure AD as an Identity Provider, map Azure AD groups to OCI groups, set up the IAM policies to govern access to Azure AD groups

Correct Answer: D

Federating with Microsoft Azure Active Directory

To federate with Azure AD, you set up Oracle Cloud Infrastructure as a basic SAML single sign-on application in Azure AD. To set up this application, you perform some steps in the Oracle Cloud Infrastructure Console and some steps in

Azure AD. Following is the general process an administrator goes through to set up the federation. Details for each step are given in the next section. In Oracle Cloud Infrastructure, download the federation metadata document. In Azure AD,

set up Oracle Cloud Infrastructure Console as an enterprise application. In Azure AD, configure the Oracle Cloud Infrastructure enterprise application for single sign-on.



In Azure AD, set up the user attributes and claims. In Azure AD, download the Azure AD SAML metadata document. In Azure AD, assign user groups to the application. In Oracle Cloud Infrastructure, set up Azure AD as an identity provider.

In Oracle Cloud Infrastructure, map your Azure AD groups to Oracle Cloud Infrastructure groups.

In Oracle Cloud Infrastructure, set up the IAM policies to govern access for your Azure AD groups.

Share the Oracle Cloud Infrastructure sign-in URL with your user

QUESTION 3

As part of planning the network design on Oracle Cloud Infrastructure, you have been asked to create an Oracle Cloud Infrastructure Virtual Cloud Network (VCN) with 3 subnets, one in each Availability Domain. Each subnet needs to have a minimum of 64 usable IP addresses.

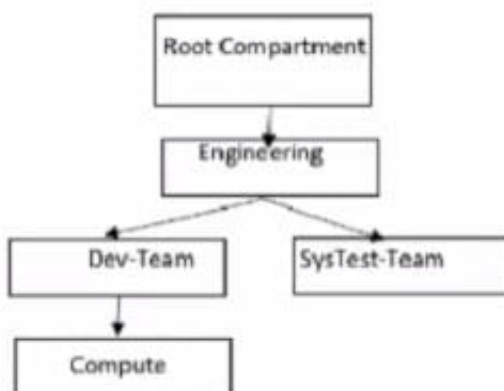
What is the smallest subnet and VCN size you should use to implement this design?

- A. /22 for the VCN; /24 for the subnets
- B. /23 for the VCN; /25 for the subnets
- C. /24 for the VCN; /24 for the subnets
- D. /22 for the VCN; /25 for the subnets

Correct Answer: B

QUESTION 4

Give this compartment structure:



You want to move a compute instance that is in `\\Compute\\` compartment to `\\SysTes-Team\\`. You login to your Oracle Cloud Infrastructure (OCI) account and use the `\\Move Resource\\` option.

What will happen when you attempt moving the compute resource?



- A. The move will be successful though Compute Instance and its Public and Private IP address will stay the same. The Compute instance VNIC will need to be moved separately. The Compute instance will still be associated with the original VCN.
- B. The move will fail and you will be prompted to move the VCN first. Once VCN is moved to the target compartment, the Compute instance can be moved.
- C. The move will be successful though Compute Instance Public and Private IP address changed, and it will be associated to the VCN in target compartment.
- D. The move will be successful though Compute Instance and its Public and Private IP address will stay the same. The Compute instance VNIC will still be associated with the original VCN.

Correct Answer: D

Moving Resources to a Different Compartment

Most resources can be moved after they are created. There are a few resources that you can't move from one compartment to another. Some resources have attached resource dependencies and some don't.

Not all attached dependencies behave the same way when the parent resource moves. For some resources, the attached dependencies move with the parent resource to the new compartment.

The parent resource moves immediately, but in some cases attached dependencies move asynchronously and are not visible in the new compartment until the move is complete. For other resources, the attached resource dependencies do

not move to the new compartment. You can move these attached resources independently. You can move Compute resources such as instances, instance pools, and custom images from one compartment to another. When you move a

Compute resource to a new compartment, associated resources such as boot volumes and VNICs are not moved. You can move a VCN from one compartment to another. When you move a VCN, its associated VNICs, private IPs, and ephemeral IPs move with it to the new compartment.

QUESTION 5

An insurance company is storing critical financial data in the OCI 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 vault, import your master encryption key into the vault, generate data encryption key, assign data encryption key to the block volume
- B. 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
- C. Create a vault, create a master encryption key in the vault, assign this master encryption key to the block volume
- D. 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



Correct Answer: C

Oracle Cloud Infrastructure Vault lets you centrally manage the encryption keys that protect your data and the secret credentials that you use to securely access resources. You can use the Vault service to create and manage the following resources: Vaults Keys Secrets Vaults securely store master encryption keys and secrets that you might otherwise store in configuration files or in code. The Vault service lets you create vaults in your tenancy as containers for encryption keys and secrets. If needed, a virtual private vault provides you with a dedicated partition in a hardware security module (HSM), offering a level of storage isolation for encryption keys that's effectively equivalent to a virtual independent HSM.

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