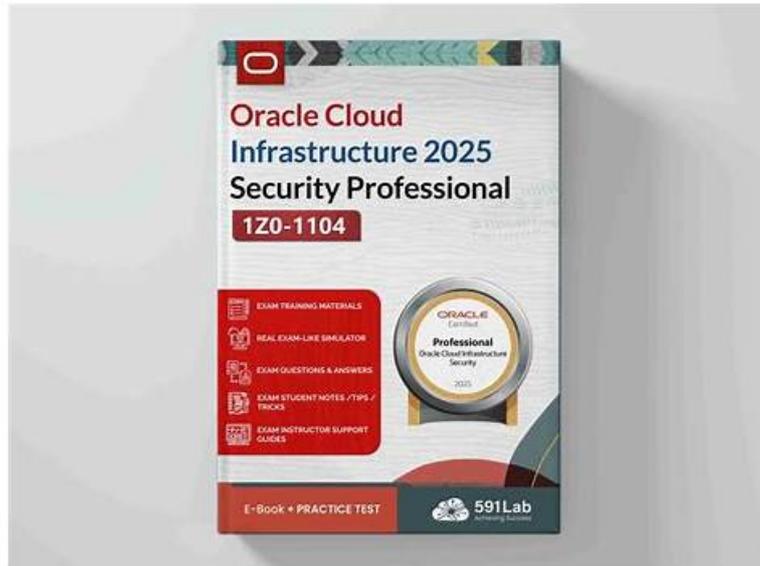


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Oracle Cloud Infrastructure 2025 Security Professional Sample Questions (Q26-Q31):

NEW QUESTION # 26

Challenge 2 -Task 1

In deploying a new application, a cloud customer needs to reflect different security postures. If a security zone is enabled with the Maximum Security Zone recipe, the customer will be unable to create or update a resource in the security zone if the action violates the attached Maximum Security Zone policy.

As an application requirement, the customer requires a compute instance in the public subnet. You therefore, need to configure

Custom Security Zones that allow the creation of compute instances in the public subnet.

Review the architecture diagram, which outlines the resources you'll need to address the requirement:

Preconfigured

To complete this requirement, you are provided with the following:

Access to an OCI tenancy, an assigned compartment, and OCI credentials

Required IAM policies

Task 1: Create a Custom Security Zone Recipe

Create a Custom Security Zone Recipe named IAD-SP-PBT-CSP-01 that allows the provisioning of compute instances in the public subnet.

Enter the OCID of the created custom security zone recipe in the text box below.

Answer:

Explanation:

See the solution below in Explanation.

Explanation:

To create a Custom Security Zone Recipe named IAD-SP-PBT-CSP-01 that allows the provisioning of compute instances in a public subnet, we will follow the steps outlined in the Oracle Cloud Infrastructure (OCI) Security Zones documentation. These steps are based on verified procedures from the OCI Security Zone Guide and related resources.

Step-by-Step Solution for Task 1: Create a Custom Security Zone Recipe

* Log in to the OCI Console:

* Use your OCI credentials to log in to the OCI Console (<https://console.us-ashburn-1.oraclecloud.com>).

* Ensure you have access to the assigned compartment provided in the tenancy.

* Navigate to Security Zones:

* From the OCI Console, go to the navigation menu (hamburger icon) on the top left.

* Under Governance and Administration, select Security Zones.

* Create a New Security Zone Recipe:

* In the Security Zones dashboard, click on the Recipe tab.

* Click the Create Recipe button.

* Configure the Recipe Details:

* Name: Enter IAD-SP-PBT-CSP-01.

* Description: (Optional) Add a description, e.g., "Custom recipe to allow compute instances in public subnet."

* Leave the Compartment as the assigned compartment provided.

* Define the Security Zone Policy:

* In the policy editor, start with a base policy. Since the Maximum Security Zone recipe restricts public subnet usage, you need to customize it.

* Add the following policy statement to allow compute instances in a public subnet:

```
Allow service compute to use virtual-network-family in compartment <compartment-name> where ALL { target.resource.type = 'Instance', target.vcn.cidr_block = '10.0.0.0/16', target.subnet.cidr_block = '10.0.10.0/24' }
```

* Replace <compartment-name> with the name of your assigned compartment.

* This policy allows the Compute service to provision instances in the public subnet (10.0.10.0/24) within the VCN (10.0.0.0/16).

* Adjust Restrictions:

* Ensure the recipe does not inherit the Maximum Security Zone recipe's default restrictions that block public subnet usage.

Explicitly allow the public subnet by including the subnet CIDR block (10.0.10.0/24) in the policy.

* Remove or modify any conflicting default rules that prohibit public subnet usage (e.g., rules blocking internet access or public IP assignment).

* Save the Recipe:

* Click Create to save the custom security zone recipe.

* Once created, note the OCID of the recipe from the recipe details page. The OCID will be a unique identifier starting with ocid1.securityzonerecipe.

* Verify the Recipe:

* Go to the Recipe tab and locate IAD-SP-PBT-CSP-01.

* Ensure the policy reflects the allowance for compute instances in the public subnet by reviewing the policy statement.

OCID of the Created Custom Security Zone Recipe

* The exact OCID will be generated upon creation (e.g., ocid1.securityzonerecipe.oc1..unique_string).

Please enter the OCID displayed in the OCI Console after completing Step 7.

Notes

* Ensure IAM policies are correctly configured to grant you permissions to create and manage security zone recipes in the compartment.

- * The policy assumes the public subnet CIDR (10.0.10.0/24) matches the diagram. Adjust if the actual subnet CIDR differs.
- * Test the recipe by associating it with a security zone and attempting to launch a compute instance to confirm compliance.

NEW QUESTION # 27

Task 6: Create Load Balancer and Attach Certificate

Create a Load Balancer with the name PBT-CERT-LB-01 in subnet LB-Subnet-PBT-CERT-SNET-02 Create a Listener for the load balancer, where:

Name: PBT-CERT-LB_LTSN_01

Protocol: HTTPS

Port: 443

Attach the certificate PBT-CERT-01-<username> to the load balancer

Attach the security list PBT-CERT-LB-SL-01 to subnet LB-Subnet-PBT-CERT-SNET-02 See the solution below in Explanation.

Answer:

Explanation:

Task 6: Create Load Balancer and Attach Certificate

Step 1: Create the Load Balancer

- * Log in to the OCI Console.
- * Navigate to Networking > Load Balancers.
- * Click Create Load Balancer.
- * Enter the following details:
- * Name: PBT-CERT-LB-01
- * Compartment: Select your assigned compartment.
- * Load Balancer Type: Select Public.
- * Virtual Cloud Network: Select PBT-CERT-VCN-01.
- * Subnet: Select LB-Subnet-PBT-CERT-SNET-02.
- * Shape: Choose a shape (e.g., 10 Mbps, adjust based on needs).
- * Click Next.
- * Leave backend sets and listeners as default for now (we'll configure the listener next).
- * Click Create Load Balancer and wait for it to be provisioned.

Step 2: Create a Listener

- * Once the load balancer is created, go to the Load Balancers page and click on PBT-CERT-LB-01.
- * Under Resources, click Listeners.
- * Click Create Listener.
- * Enter the following details:
- * Name: PBT-CERT-LB_LTSN_01
- * Protocol: Select HTTPS.
- * Port: Enter 443.
- * Certificate: Click Add Certificate, then select the PBT-CERT-01<username> certificate (e.g., PBT-CERT-0199008677labuser01) created in Task 5.
- * Leave other settings (e.g., SSL handling) as default unless specified.
- * Click Create.

Step 3: Configure the Backend Set

- * In the PBT-CERT-LB-01 details page, under Resources, click Backend Sets.
- * Click Create Backend Set (if not already created).
- * Enter basic details (e.g., name like PBT-CERT-BS-01).
- * Add a backend server:
- * IP Address: Use the private IP of PBT-CERT-VM-01 (find this in the instance details under Compute > Instances).
- * Port: 80 (HTTP, as configured on the web server).
- * Protocol: HTTP.
- * Click Create.

Step 4: Attach the Security List to the Subnet

- * Navigate to Networking > Virtual Cloud Networks.
- * Select PBT-CERT-VCN-01 and click Subnets.
- * Click on LB-Subnet-PBT-CERT-SNET-02.
- * Under Security Lists, ensure PBT-CERT-LB-SL-01 is attached. If not:
- * Click Edit.
- * Remove the default security list and add PBT-CERT-LB-SL-01.
- * Click Save Changes.

Step 5: Verify the Configuration

- * Ensure the load balancer health status is OK (check under Backend Sets > Health).
- * Test by accessing <https://<load-balancer-public-ip>> in a browser (replace with the public IP from the load balancer details).

NEW QUESTION # 28

During your investigation of a load balancer issue, you discovered that all back-end servers associated with one of the affected listeners were reported as unhealthy. However, when you checked the back-end servers, they seemed to be working just fine. What might be causing this issue?

- A. Misconfigured security rule
- B. Incorrect DNS configuration
- C. Misconfigured health check
- D. Incorrect subnet configuration
- E. Overloaded back-end servers

Answer: C

NEW QUESTION # 29

Challenge 2

In deploying a new application, a cloud customer needs to reflect different security postures. If a security zone is enabled with the Maximum Security Zone recipe, the customer will be unable to create or update a resource in the security zone if the action violates the attached Maximum Security Zone policy.

As an application requirement, the customer requires a compute instance in the public subnet. You therefore, need to configure Custom Security Zones that allow the creation of compute instances in the public subnet.

Review the architecture diagram, which outlines the resources you'll need to address the requirement:

□ Preconfigured

To complete this requirement, you are provided with the following:

Access to an OCI tenancy, an assigned compartment, and OCI credentials

Required IAM policies

Task 5: Provision a Compute Instance

Provision a compute instance in the IAD-SP-PBT-PUBSNET-01 public subnet, where:

Name IAD-SP-PBT-1-VM-01

image: Oracle Linux 8

Shape VM: Standard, A1, Flex

Enter the OCID of the created compute instance in the text box below.

Answer:

Explanation:

See the solution below in Explanation.

Explanation:

To provision a compute instance named IAD-SP-PBT-1-VM-01 in the IAD-SP-PBT-PUBSNET-01 public subnet with the specified configuration (Oracle Linux 8 image, VM Standard A1 Flex shape), follow these steps based on the Oracle Cloud Infrastructure (OCI) Compute documentation.

Step-by-Step Solution for Task 5: Provision a Compute Instance

* Log in to the OCI Console:

* Use your OCI credentials to log in to the OCI Console (<https://console.us-ashburn-1.oraclecloud.com>).

* Ensure you have access to the assigned compartment.

* Navigate to Compute Instances:

* From the OCI Console, click the navigation menu (hamburger icon) on the top left.

* Under Compute, select Instances.

* Create a New Compute Instance:

* Click the Create Instance button.

* Configure the Instance Details:

* Name: Enter IAD-SP-PBT-1-VM-01.

* Compartment: Select the assigned compartment.

* Placement: Choose the availability domain (e.g., AD-1) based on your region's availability.

- * Select the Image:
 - * Under Image and Shape, click Change Image.
 - * Select Oracle Linux 8 from the platform images list.
 - * Click Select Image.
 - * Choose the Shape:
 - * Click Change Shape.
 - * Select VM Standard category.
 - * Choose A1 Flex from the shape options.
 - * Configure the OCPUs (e.g., 1 OCPU) and memory (e.g., 6 GB) as needed for A1 Flex, then click Select Shape.
 - * Configure Networking:
 - * Under Networking, ensure the Virtual Cloud Network is set to IAD-SP-PBT-VCN-01.
 - * Set the Subnet to IAD-SP-PBT-PUBSNET-01 (public subnet with CIDR 10.0.1.0/24).
 - * Enable Assign a public IPv4 address to allow external connectivity.
 - * Leave the default security list or assign a custom one if configured previously.
 - * Set Up SSH Access:
 - * Under Add SSH Keys, either:
 - * Upload your public SSH key file, or
 - * Paste your public SSH key manually.
 - * This ensures you can access the instance via SSH.
 - * Launch the Instance:
 - * Click Create to provision the compute instance.
 - * Wait for the instance to reach the Running state (this may take a few minutes).
 - * Note the Instance OCID:
 - * Once the instance is running, go to the instance details page for IAD-SP-PBT-1-VM-01.
 - * Copy the OCID displayed (e.g., ocid1.instance.oc1..<unique_string>).
- OCID of the Created Compute Instance
- * Enter the OCID of the created compute instance (IAD-SP-PBT-1-VM-01) into the text box. The exact OCID will be available after Step 9 (e.g., ocid1.instance.oc1..<unique_string>).
- Notes
- * Ensure the security zone IAD_SAP-PBT-CSZ-01 and its associated recipe IAD-SP-PBT-CSP-01 allow compute instance creation in the public subnet (10.0.1.0/24).
 - * Verify network connectivity by testing SSH access using the public IP assigned to the instance.

NEW QUESTION # 30

An E-commerce company running on Oracle Cloud Infrastructure (OCI) wants to prevent accidental misconfigurations that could expose sensitive data. They need an OCI service that can enforce predefined security rules when creating or modifying cloud resources.

Which OCI service should they use?

- A. OCI Identity and Access Management (IAM)
- B. OCI Web Application Firewall (WAF)
- C. OCI Certificates
- **D. OCI Security Zone**

Answer: D

NEW QUESTION # 31

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