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Oracle 1z0-1124-25 Exam Syllabus Topics:

Topic	Details
Topic 1	• Migrate Workloads to OCI: This section of the exam measures the skills of a Cloud Migration Specialist and focuses on identifying the best networking connectivity strategies when migrating workloads to Oracle Cloud. It includes scenarios involving on-premises infrastructure, other cloud providers, and multicloud environments, ensuring proper connectivity and minimal downtime during transitions.
Topic 2	• Design for Hybrid Networking Architectures: This section of the exam measures the skills of a Network Infrastructure Architect and assesses capabilities in designing hybrid networking environments. It involves demonstrating proficiency with Dynamic Routing Gateway (DRG) configurations, attachments, BGP routing protocols, VPN services, and evaluating FastConnect offerings. This section also emphasizes maintaining reliable multicloud connectivity and implementing IPsec over FastConnect, along with transitive routing practices.
Topic 3	• Implement and Operate Secure OCI Networking and Connectivity Solutions: This section of the exam measures the skills of a Cloud Security Specialist and centers around securing networking configurations and interconnectivity in OCI. It involves applying IAM policies for tenancy communication, using bastion services in multi-tier setups, exploring CloudShell capabilities, and evaluating network security layers like OCI Network Firewall, Web Application Firewall (WAF), edge services, and certificates. This section also references obsolete content related to IaC and OKE in networking architectures while touching on zero-trust packet routing models.

Topic 4	Plan and Design OCI Networking Solutions and App Services: This section of the exam measures the skills of a Solutions Architect and focuses on planning comprehensive networking and application service strategies. It includes understanding IP management practices, choosing procedural steps for deployments, and evaluating OCI load balancers, DNS configurations, and traffic steering options. Basic familiarity with DNS Security Extensions (DNSsec) is acknowledged as a placeholder for future integration.
Topic 5	Transitive Routing: This section of the exam measures the skills of a Network Security Engineer and focuses on the interpretation and synthesis of transitive routing configurations. It includes understanding how DRG, Local Peering Gateways (LPG), and network appliances interact in a routed network and implementing those configurations effectively.
Topic 6	Design and Deploy OCI Virtual Cloud Networks (VCN): This section of the exam measures the skills of a Cloud Network Engineer and covers the design and configuration of Virtual Cloud Networks in Oracle Cloud Infrastructure. It includes understanding VCN and subnet characteristics, implementing both IPv4 and IPv6 addressing, identifying the distinct roles of OCI gateways, and recognizing endpoint types and their application within networking architectures. Knowledge of Object Storage endpoints is also referenced.

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Oracle Cloud Infrastructure 2025 Networking Professional Sample Questions (Q65-Q70):

NEW QUESTION # 65

Your company needs to connect an on-premises data center to an OCI Virtual Cloud Network (VCN) to extend their existing infrastructure to the cloud. The connection **MUST** be secure, reliable, and provide consistent, low-latency access to resources in both environments. Resources in the OCI VCN need access to the on-premises servers, and resources in the on-premises data center need to access the compute instances located in a private subnet within the OCI VCN. Which is the **MOST** appropriate architectural design for establishing connectivity in this hybrid cloud environment, considering the available endpoints and gateway options in OCI?

- A. Implement a Site-to-Site VPN connection between the on-premises network and the OCI VCN, utilizing a Dynamic Routing Gateway (DRG) in OCI.
- B. Configure a public endpoint for each resource in the OCI VCN that needs to be accessed from the on-premises network.
- C. Implement a FastConnect connection from the on-premises network to the OCI VCN utilizing a Dynamic Routing Gateway (DRG) in OCI and implement a Site-to-Site VPN connection as backup.
- D. Establish a FastConnect connection between the on-premises network and the OCI VCN, utilizing a Dynamic Routing Gateway (DRG) in OCI.

Answer: C

Explanation:

- * Requirements: Secure, reliable, low-latency, bidirectional access with redundancy.
- * Option A: VPN via DRG is secure but lacks low latency and redundancy-insufficient.
- * Option B: FastConnect via DRG offers low latency and security but no redundancy-partial fit.
- * Option C: Public endpoints are insecure and high-latency-incorrect.
- * Option D: FastConnect for primary low-latency access, VPN as backup for redundancy-correct and most appropriate.
- * Conclusion: Option D meets all criteria.

Oracle states:

* "FastConnect with DRG provides secure, low-latency hybrid connectivity. Add a Site-to-Site VPN for redundancy to ensure reliability." This supports Option D. Reference: Hybrid Cloud Connectivity - Oracle Help Center (docs.oracle.com/en-us/iaas/Content/Network/Tasks/hybridcloud.htm).

NEW QUESTION # 66

You are setting up a Site-to-Site VPN connection between your on-premises network and OCI. You have generated the IKE pre-shared key and configured the VPN connection in OCI. You now need to configure your on-premises Customer Premises Equipment (CPE). Which information from the OCI console is ESSENTIAL for configuring your on-premises CPE to establish the VPN connection?

- **A. The public IP address of the OCI Dynamic Routing Gateway (DRG) and the IKE pre-shared key.**
- B. The OCID (Oracle Cloud Identifier) of the VPN connection and the compartment ID.
- C. The subnet CIDR blocks within your OCI VCN.
- D. The OCI region and availability domain.

Answer: A

Explanation:

* Objective: Identify essential info for CPE to establish a Site-to-Site VPN with OCI.

* Option A: Region and availability domain are for OCI resource placement, not CPE config-incorrect.

* Option B: The DRG's public IP is the VPN endpoint, and the IKE pre-shared key authenticates the tunnel-essential and correct.

* Option C: OCID and compartment ID are for OCI management, not CPE setup-incorrect.

* Option D: Subnet CIDRs are for routing, configured later, not for tunnel establishment-incorrect.

* Conclusion: Option B provides the critical VPN connection details.

Oracle documentation states:

* "To configure your CPE for Site-to-Site VPN, you need the public IP address of the DRG (VPN headend) and the IKE pre-shared key from the OCI console." This confirms Option B. Reference: Setting Up IPsec VPN - Oracle Help Center (docs.oracle.com/en-us/iaas/Content/Network/Tasks/settingupIPSec.htm).

NEW QUESTION # 67

You are tasked with setting up a secure connection from an OCI Compute instance running in a private subnet to a third-party API that is only accessible over the internet via a static public IP address. Your company policy prohibits exposing the compute instance directly to the internet. Which combination of VCN resources BEST facilitates this secure outbound connection to the third-party API?

- A. A Dynamic Routing Gateway (DRG) connected to a FastConnect circuit, with routes configured to direct traffic to the third-party API's IP address.
- B. An Internet Gateway with a security list allowing outbound traffic to the third-party API's IP address.
- C. A Service Gateway configured with a Service CIDR label that includes the third-party API's IP address.
- **D. A NAT Gateway and a security list allowing outbound traffic to the third-party API's IP address.**

Answer: D

Explanation:

* Requirement: Secure outbound connection to a public API without exposing the instance.

* Option A: Internet Gateway allows inbound and outbound traffic, exposing the instance-violates policy.

* Option B: NAT Gateway enables outbound-only internet access from a private subnet. A security list restricts traffic to the API's IP, ensuring security-correct.

* Option C: Service Gateway is for OCI services, not third-party APIs-incorrect.

* Option D: DRG with FastConnect is for private connections (e.g., on-premises), not internet APIs- incorrect.

* Conclusion: Option B meets the policy and connectivity needs.

Oracle notes:

* "A NAT Gateway allows instances in a private subnet to initiate outbound internet traffic without receiving inbound connections. Use security lists to restrict destinations." This supports Option B.

Reference: NAT Gateway Overview - Oracle Help Center (docs.oracle.com/en-us/iaas/Content/Network/Tasks/NATgateway.htm).

NEW QUESTION # 68

You are troubleshooting an issue where a compute instance in a private subnet within a VCN cannot reach OCI Object Storage. You have verified that a Service Gateway is configured for the VCN and that the route table associated with the subnet has a route rule directing traffic for OCI Services to the Service Gateway.

However, the instance still cannot connect. What is the MOST likely cause of the problem?

- A. The Service Gateway is not configured to allow access to OCI Object Storage.
- B. The instance is not configured with the Oracle Cloud Agent.
- **C. The security list or network security group associated with the subnet or instance is not configured to allow outbound traffic to the OCI Object Storage service CIDR block.**
- D. The instance requires a public IP address to access OCI Object Storage.

Answer: C

Explanation:

* Problem: Instance in private subnet can't reach Object Storage despite Service Gateway and routing.

* Option A: Service Gateway enables private access; public IP isn't required-incorrect.

* Option B: Security lists/NSGs act as firewalls; if outbound traffic to Object Storage CIDR isn't allowed, connectivity fails-most likely and correct.

* Option C: Service Gateway defaults to all OCI services unless restricted; less likely given setup verification-incorrect.

* Option D: Oracle Cloud Agent is for management, not connectivity-incorrect.

* Conclusion: Option B is the most probable cause.

Oracle states:

* "For private access to Object Storage via a Service Gateway, ensure security lists or NSGs allow outbound traffic to the Object Storage CIDR block." This supports Option B. Reference: Service Gateway Troubleshooting - Oracle Help

Center(docs.oracle.com/en-us/iaas/Content/Network/Tasks/servicegateway.htm#troubleshooting).

NEW QUESTION # 69

You are designing a highly available web application in OCI. You've created a VCN with two public subnets across different Availability Domains (ADs). You need to enable IPv6 support for the application to cater to a growing number of IPv6-only clients. You plan to use a Load Balancer to distribute traffic to backend compute instances in the public subnets. Which of the following approaches ensures the highest level of resilience and IPv6 connectivity for your application?

- **A. Configure the VCN with a public IPv6 CIDR block obtained from Oracle. Configure the Load Balancer to listen on both IPv4 and IPv6 addresses. Ensure the backend compute instances also listen on both IPv4 and IPv6 addresses.**
- B. Configure the VCN with a /48 IPv6 ULA prefix. Configure the Load Balancer to listen on both IPv4 and IPv6 addresses. Ensure the backend compute instances also listen on both IPv4 and IPv6 addresses. Route traffic accordingly using NSGs.
- C. Configure the VCN with a public IPv6 CIDR block obtained from Oracle. Configure the Load Balancer to listen on IPv4 only, while backend compute instances listen on both IPv4 and IPv6, relying on NAT for IPv6 clients.
- D. Configure the VCN with a /48 IPv6 ULA prefix. Configure the Load Balancer to listen on IPv4 only, and the compute instances to listen on both IPv4 and IPv6, relying on NAT for IPv6 clients.

Answer: A

NEW QUESTION # 70

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