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## Oracle 1z0-1124-25 Exam Syllabus Topics:

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Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>• Troubleshoot OCI Networking and Connectivity Issues: This section of the exam measures the skills of a Cloud Operations Engineer and evaluates the ability to select appropriate OCI tools and services for troubleshooting network and connectivity problems. It also tests knowledge of using OCI logging services to diagnose and resolve configuration or performance issues effectively.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• OCI Networking Best Practices: This section of the exam measures the skills of a Cloud Solutions Architect and covers essential best practices for designing secure, efficient, and scalable networking solutions in OCI. It includes architectural design, connectivity setup, security hardening, and monitoring and logging standards that align with industry and Oracle-recommended guidelines.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

## Oracle Cloud Infrastructure 2025 Networking Professional Sample Questions (Q10-Q15):

### NEW QUESTION # 10

A development team has deployed a three-tier application in an OCI VCN. The application consists of a public-facing web tier, an application tier, and a database tier. The team reports that the web tier instances can communicate with the application tier instances, but the application tier instances cannot connect to the database tier instances. All security lists are configured to allow all traffic within the VCN. Which OCI Networking diagnostic tool would BEST help you quickly isolate the root cause of this connectivity issue?

- **A. Connection Diagnostics**
- B. VCN Flow Logs
- C. OCI Bastion
- D. Network Firewall

**Answer: A**

Explanation:

\* Problem: App tier can't reach DB tier despite open security lists.

\* Option A: Flow Logs show traffic details but require analysis, slowing diagnosis-less efficient.

\* Option B: Connection Diagnostics tests connectivity (e.g., ping, traceroute) between resources, quickly pinpointing failures-correct.

\* Option C: Network Firewall controls traffic, not diagnoses-incorrect.

\* Option D: Bastion is for access, not troubleshooting-incorrect.

\* Conclusion: Connection Diagnostics is the best tool for quick isolation.

Oracle states:

\* "Connection Diagnostics provides rapid testing of network connectivity between OCI resources, ideal for isolating issues like tier-to-tier failures." This validates Option B. Reference: Network Troubleshooting - Oracle Help Center (docs.oracle.com/en-us/iaas/Content/Network/Tasks/troubleshooting.htm#connectiondiagnostics).

### NEW QUESTION # 11

You are working as an OCI Network Specialist. Your company is migrating its on-premises IPv6 network to OCI. As part of the migration, you need to enable communication between the on-premises network and a VCN in OCI using FastConnect. Your company utilizes global unicast IPv6 addresses on-premises and wants to continue utilizing those addresses in OCI. However, you have a restriction that compute instance traffic must be limited to IPv6 only. After assigning IPv6 addresses from the prefix to the instance, they cannot ping external IPv6 addresses. What configuration most likely addresses this issue?

- A. Ensure that there are IPv6 default routes (::/0) pointing to a NAT Gateway in your VCN route tables.
- **B. Ensure that there is an Internet Gateway (IGW) attached to the VCN with a default route (::/0) in your subnet route table.**
- C. Ensure that there is a Service Gateway attached to the VCN with a default route (::/0) in your subnet route table.
- D. You can't use your own IPv6 address space in OCI. You must use OCI's provided ULA.

**Answer: B**

Explanation:

- \* Problem: Instances with IPv6-only traffic can't ping external IPv6 addresses despite FastConnect and IPv6 prefixes.
- \* Option A: OCI supports Bring Your Own IP (BYOIP) for IPv6, including global unicast addresses, so this is incorrect.
- \* Option B: NAT Gateways are for IPv4 outbound traffic, not IPv6-irrelevant here.
- \* Option C: For IPv6-only instances to reach external IPv6 addresses (beyond FastConnect), an Internet Gateway (IGW) is required with a default route (::/0) in the subnet route table. This enables public IPv6 connectivity-correct.
- \* Option D: Service Gateway is for OCI services, not general IPv6 internet access-incorrect.
- \* Conclusion: Option C fixes the issue by enabling IPv6 internet access.

Oracle states:

\* "To enable IPv6 traffic to the internet, attach an Internet Gateway to the VCN and add a route rule for ::/0. OCI supports BYOIP for public IPv6 prefixes." This aligns with Option C. Reference: IPv6 in OCI - Oracle Help Center (docs.oracle.com/en-us/iaas/Content/Network/Tasks/managingIPv6.htm).

### NEW QUESTION # 12

You are configuring a VCN with multiple subnets for a customer. The security team requires that all instances have IPv6 addresses. You configure the VCN with an IPv6 ULA CIDR block of fc00:1::1::/48 and create two private subnets. After launching instances in the two private subnets, you notice that they only have IPv4 addresses assigned. You have not manually configured any IPv6 addresses on the instances themselves. What steps are necessary to ensure the instances automatically receive IPv6 addresses?

- A. No further steps are needed. Instances will automatically receive IPv6 addresses within the configured subnets upon launch.
- **B. Ensure that SLAAC (Stateless Address Autoconfiguration) is enabled on the operating system of the instances within the two subnets.**
- C. IPv6 address assignment is only supported on instances launched in public subnets.
- D. Make sure the "Assign public IPv4 address" option is not selected during instance creation. This will force the instance to default to IPv6 allocation.

**Answer: B**

Explanation:

- \* Problem: Instances lack IPv6 addresses despite VCN IPv6 configuration.
- \* OCI IPv6 Behavior: IPv6 requires subnet enablement and OS support via SLAAC.
- \* Evaluate Options:
- \* A: Incorrect. OCI doesn't auto-assign IPv6 without OS configuration.
- \* B: Correct. SLAAC must be enabled on the instance OS for auto-assignment.
- \* C: Incorrect. IPv6 works in both public and private subnets.
- \* D: Incorrect. IPv4 and IPv6 assignments are independent.
- \* Conclusion: Enabling SLAAC on the OS ensures automatic IPv6 assignment.

IPv6 in OCI relies on SLAAC for automatic address assignment. The Oracle Networking Professional study guide states, "To enable IPv6 on instances, the VCN and subnet must have IPv6 CIDR blocks, and the instance OS must support SLAAC to

automatically configure IPv6 addresses" (OCI Networking Documentation, Section: IPv6 Configuration). Without SLAAC, instances default to IPv4 only.

### NEW QUESTION # 13

Your organization is deploying a critical database application on OCI. To ensure high availability, you have deployed the database instances across multiple availability domains (ADs) within a single region. You need to distribute client connections to the database instances and ensure that the load balancer can handle long-lived TCP connections with minimal overhead. Session persistence is not required. Which OCI load balancing solution would you choose in this scenario to minimize latency and connection establishment overhead?

- A. Application Load Balancer with TCP health checks.
- B. Flexible Load Balancer with HTTP health checks.
- C. Application Load Balancer with HTTP health checks.
- **D. Network Load Balancer with TCP health checks.**

**Answer: D**

Explanation:

\* Requirements: Low-latency, minimal overhead for TCP connections, no session persistence.

\* Load Balancer Types:

\* Application Load Balancer (ALB): Layer 7, higher overhead, suited for HTTP/HTTPS.

\* Network Load Balancer (NLB): Layer 4, low overhead, ideal for TCP/UDP.

\* Evaluate Options:

\* A: ALB with HTTP checks is for HTTP traffic, adds overhead; unsuitable.

\* B: NLB with TCP checks is optimized for TCP, low latency, best fit.

\* C: ALB with TCP checks still has Layer 7 overhead; less efficient.

\* D: "Flexible Load Balancer" isn't a specific OCI service; incorrect.

\* Conclusion: NLB minimizes latency and overhead for TCP connections.

The Network Load Balancer is designed for high-performance TCP scenarios. The Oracle Networking Professional study guide states, "Network Load Balancer operates at Layer 4, providing low-latency, high-throughput load balancing for TCP/UDP traffic with minimal overhead, ideal for database connections" (OCI Networking Documentation, Section: Load Balancing). TCP health checks ensure instance availability without session persistence complexity.

### NEW QUESTION # 14

Your company is migrating its on-premises data center to OCI. A critical security requirement is to maintain centralized logging and auditing of all network traffic traversing the OCI Network Firewall. You need to ensure that every session that passes through the firewall is logged and can be analyzed for security events.

Which OCI service should you configure in conjunction with the Network Firewall to achieve this centralized logging?

- A. OCI Logging Analytics.
- B. OCI Cloud Guard.
- **C. OCI Service Connector Hub with OCI Logging.**
- D. OCI Audit Service.

**Answer: C**

Explanation:

\* Requirement: Centralized logging of Network Firewall traffic for analysis.

\* OCI Services:

\* Audit Service: Logs API calls, not network traffic.

\* Logging Analytics: Analyzes logs but needs log ingestion.

\* Service Connector Hub with Logging: Moves firewall logs to OCI Logging.

\* Cloud Guard: Monitors security posture, not detailed logging.

\* Evaluate Options:

\* A: Audit Service is for API events; incorrect.

\* B: Logging Analytics requires log source; incomplete.

\* C: Service Connector Hub with Logging captures and stores firewall logs; best fit.

\* D: Cloud Guard is for threat detection, not logging; incorrect.

\* Conclusion: Service Connector Hub with OCI Logging meets the requirement.

OCI Network Firewall logs require integration with OCI Logging. The Oracle Networking Professional study guide states, "Service Connector Hub can be configured to transfer Network Firewall logs to OCI Logging for centralized storage and analysis, meeting auditing requirements" (OCI Networking Documentation, Section: Network Firewall Logging). This ensures every session is logged and auditable.

## NEW QUESTION # 15

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