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Oracle 1z0-1124-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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 2	<ul style="list-style-type: none">• 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.
Topic 3	<ul style="list-style-type: none">• 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 4	<ul style="list-style-type: none"> • 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.
Topic 5	<ul style="list-style-type: none"> • 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.

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Oracle Cloud Infrastructure 2025 Networking Professional Sample Questions (Q46-Q51):

NEW QUESTION # 46

Your application running on OCI Compute instances in a private subnet requires high availability and the ability to distribute incoming traffic across multiple instances. You need to ensure that the load balancer can handle both HTTP and HTTPS traffic and provides health checks to monitor the availability of your backend servers. Which OCI Load Balancer offering is the most suitable for this scenario, considering both functionality and cost-effectiveness for a production environment?

- A. Network Load Balancer (NLB) with TCP listeners.
- B. Flexible Load Balancer with only TCP listeners.
- C. Network Load Balancer (NLB) with UDP listeners.
- **D. Flexible Load Balancer with HTTP and HTTPS listeners and health checks.**

Answer: D

Explanation:

- * Requirements: HA, HTTP/HTTPS support, health checks, cost-effectiveness.
- * Option A: NLB with TCP is Layer 4, lacks HTTP/HTTPS features-incorrect.
- * Option B: Flexible Load Balancer (Application LB) supports Layer 7 HTTP/HTTPS and health checks, ideal for production-correct.
- * Option C: NLB with UDP is irrelevant for HTTP/HTTPS-incorrect.
- * Option D: Flexible LB with TCP only limits Layer 7 features-incorrect.
- * Conclusion: Option B meets all needs efficiently.

Oracle states:

* "The Application Load Balancer (Flexible LB) supports HTTP/HTTPS with health checks, suitable for production workloads."This supports Option B. Reference:Load Balancer Overview - Oracle Help Center(docs.oracle.com/en-us/iaas/Content/Balance/Concepts/balanceoverview.htm).

NEW QUESTION # 47

In a Zero Trust network architecture, what is the primary purpose of implementing micro-segmentation within OCI VCNs?

- A. To limit the blast radius of potential security breaches.
- B. To reduce the number of required route tables.
- C. To simplify inter-region connectivity.
- D. To increase network bandwidth.

Answer: A

Explanation:

- * Context: Zero Trust assumes no trust, requiring strict isolation (micro-segmentation).
- * Option A: Bandwidth isn't increased by segmentation-incorrect.
- * Option B: Segmentation may increase route tables for granularity, not reduce them-incorrect.
- * Option C: Micro-segmentation isolates workloads, limiting breach impact (blast radius)-core Zero Trust goal and correct.
- * Option D: Inter-region connectivity isn't simplified by micro-segmentation-incorrect.
- * Conclusion: Option C aligns with Zero Trust principles.

Oracle notes:

* "Micro-segmentation in OCI VCNs, using NSGs and security lists, limits the blast radius of breaches by isolating resources, a key Zero Trust principle." This supports Option C. Reference: Zero Trust in OCI - Oracle Help Center (docs.oracle.com/en-us/iaas/Content/Network/Concepts/zerotrust.htm).

NEW QUESTION # 48

Which OCI service provides detailed logs for network traffic traversing a Network Load Balancer, offering insights into client connections and backend health checks?

- A. Service Logs
- B. Flow Logs
- C. Load Balancer Logs
- D. Audit Logs

Answer: C

Explanation:

- * Objective: Identify the service for Load Balancer traffic logs.
- * Option A: Flow Logs capture VCN traffic, not specific to Load Balancer-incorrect.
- * Option B: Service Logs are generic, not Load Balancer-specific-incorrect.
- * Option C: Load Balancer Logs provide detailed client and health check data-correct.
- * Option D: Audit Logs track API actions, not traffic-incorrect.
- * Conclusion: Load Balancer Logs are the best fit.

Oracle states:

* "Load Balancer Logs offer detailed insights into client connections and backend health checks for Network Load Balancers." This validates Option C. Reference: Load Balancer Logging - Oracle Help Center (docs.oracle.com/en-us/iaas/Content/Balance/Tasks/managinglogs.htm).

NEW QUESTION # 49

Your company has established a hybrid cloud environment using FastConnect to connect your on-premises network to your OCI VCN. You are advertising on-premises network prefixes to OCI via BGP. You want to ensure that OCI only learns routes from your on-premises network that are within a specific range, and that any other prefixes advertised are rejected to prevent routing conflicts. Which BGP attribute and configuration on the OCI side should you use to achieve this?

- A. Route Filtering using Route Distinguisher (RD) and Route Target (RT): Configure RDs and RTs on the FastConnect virtual circuit to filter routes based on tenant isolation.
- B. Route Filtering using Prefix Lists: Configure Prefix Lists on the FastConnect virtual circuit to accept only the desired prefix ranges and reject all others.
- C. AS Path Prepending: Configure AS Path Prepending on the FastConnect virtual circuit to discourage OCI from selecting routes outside the desired range.
- D. MED (Multi-Exit Discriminator): Configure MED values on the on-premises BGP router to influence OCI's route selection based on preferred exit points.

Answer: B

Explanation:

- * Objective: Filter BGP routes on OCI to accept only specific on-premises prefixes.
- * BGP Attributes Overview:
- * AS Path Prepending: Lengthens AS path to influence route preference, not filtering.
- * MED: Influences exit point selection, not route acceptance.
- * RD/RT: Used in MPLS VPNs for tenant isolation, not simple prefix filtering.
- * Prefix Lists: Directly filter prefixes based on IP ranges.
- * Evaluate Options:
- * A: AS Path Prepending affects preference, not filtering; unsuitable.
- * B: MED influences path selection, not route rejection; incorrect.
- * C: RD/RT is for VPN contexts, not applicable here.
- * D: Prefix Lists explicitly allow/deny prefixes, meeting the requirement.
- * Conclusion: Prefix Lists on the FastConnect virtual circuit provide precise control over accepted routes.

Prefix Lists are the most effective BGP tool for filtering routes in OCI. The Oracle Networking Professional study guide notes, "Prefix Lists can be applied to FastConnect virtual circuits to filter BGP advertisements, ensuring only approved prefixes are learned by OCI" (OCI Networking Documentation, Section: FastConnect and BGP). This prevents routing conflicts by rejecting unwanted prefixes, aligning with the security and control requirements.

NEW QUESTION # 50

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

Answer: D

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 # 51

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