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Oracle 1z0-1124-25 Exam Syllabus Topics:

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

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Oracle Cloud Infrastructure 2025 Networking Professional Sample Questions (Q102-Q107):

NEW QUESTION # 102

You are tasked with migrating a critical, latency-sensitive application from Azure to OCI. Due to compliance requirements, all data must be encrypted in transit. Which connectivity option provides the BEST combination of security and performance for this migration?

- **A. Utilize Azure ExpressRoute and OCI FastConnect through a colocation provider, then implement application-level encryption using TLS**
- B. Configure a Site-to-Site VPN between Azure's Virtual Network Gateway and OCI's Dynamic Routing Gateway (DRG), relying on the built-in IPsec encryption
- C. Leverage Azure Data Factory to transfer data to OCI Object Storage via HTTPS
- D. Employ Azure VPN Gateway in conjunction with an OCI Load Balancer with SSL termination for the incoming connections from Azure

Answer: A

Explanation:

* Requirements: Low latency, high security with encryption for migration.

* Option A: VPN with IPsec offers encryption but has higher latency over public internet-less optimal.

* Option B: ExpressRoute and FastConnect provide a private, low-latency link; TLS adds end-to-end encryption-correct and best combination.

* Option C: Data Factory with HTTPS is encrypted but slow and not real-time-incorrect.

* Option D: VPN with Load Balancer SSL termination breaks end-to-end encryption-incorrect.

* Conclusion: Option B balances performance and security.

Oracle notes:

* "For latency-sensitive migrations, use FastConnect with ExpressRoute via colocation, enhanced by TLS for secure, high-performance data transfer." This supports Option B. Reference: Multicloud Connectivity

- Oracle Help Center (docs.oracle.com/en-us/iaas/Content/Network/Concepts/multicloud.htm).

NEW QUESTION # 103

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. MED (Multi-Exit Discriminator): Configure MED values on the on-premises BGP router to influence OCI's route selection based on preferred exit points.
- D. AS Path Prepending: Configure AS Path Prepending on the FastConnect virtual circuit to discourage OCI from selecting routes outside the desired range.

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 # 104

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 /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.
- B. 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.
- **C. 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.**
- 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: C

NEW QUESTION # 105

You are designing a highly available and scalable e-commerce application on OCI. The application requires load balancing for both HTTP/HTTPS traffic and TCP-based microservices communication. You need a solution that provides advanced traffic management capabilities, including content-based routing and path-based routing, and can also protect against common web exploits. Which OCI load balancing offering is the most suitable for this scenario, considering the need for web application firewall (WAF) integration?

- A. Flexible Load Balancer
- **B. Application Load Balancer**
- C. Network Load Balancer
- D. Load Balancing as a Service (LBaaS)

Answer: B

Explanation:

* Requirements: HTTP/HTTPS + TCP, advanced routing, WAF protection.

* Load Balancers:

* NLB: Layer 4, no HTTP routing or WAF; unsuitable.

* ALB: Layer 7, supports routing and WAF; fits perfectly.

* Flexible LB: Not a specific OCI service; incorrect.

* LBaaS: Generic term, not a product; incorrect.

* Evaluate Options:

* A: Lacks Layer 7 and WAF; incorrect.

* B: Meets all needs with ALB + WAF; correct.

* C: Non-existent; incorrect.

* D: Too vague; incorrect.

* Conclusion: Application Load Balancer is most suitable.

ALB supports complex e-commerce needs. The Oracle Networking Professional study guide states,

"Application Load Balancer operates at Layer 7, offering content-based and path-based routing, and integrates with OCI WAF for exploit protection" (OCI Networking Documentation, Section: Application Load Balancer). This aligns with all requirements.

NEW QUESTION # 106

Your company is migrating its legacy application to OCI. This application uses self-signed certificates. As part of the migration, you want to replace these with certificates issued by a trusted Certificate Authority (CA) managed through OCI Certificates. What is the most secure and recommended method to handle this transition?

- **A. Obtain certificates from OCI Certificates, gradually replace self-signed certificates on application servers, and update the truststores on client systems to include the OCI Certificates CA.**
- B. Configure OCI WAF to bypass certificate validation for the legacy application.
- C. Import the self-signed certificates into OCI Certificates and continue using them until they expire.
- D. Immediately replace the self-signed certificates on all application servers with certificates issued by OCI Certificates, without any gradual rollout.

Answer: A

Explanation:

* Objective: Securely transition from self-signed to trusted CA certificates.

* Option A: Importing self-signed certificates into OCI Certificates doesn't improve security-incorrect.

* Option B: Immediate replacement risks outages if clients don't trust the new CA-unrecommended.

* Option C: Gradual replacement with OCI Certificates, updating client truststores, ensures security and minimizes disruption-correct.

* Option D: Bypassing validation via WAF weakens security-incorrect.

* Conclusion: Option C is the most secure and recommended method.

Oracle advises:

* "Replace self-signed certificates with OCI Certificates from a trusted CA. Perform a phased rollout and update client truststores to avoid disruptions." This validates Option C. Reference: OCI Certificates Overview - Oracle Help Center (docs.oracle.com/en-us/iaas/Content/Security/Certificates/overview).

htm).

NEW QUESTION # 107

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