

☑ EASY (10 Questions)

Q1. What is the primary characteristic of cloud computing?

- A. Fixed resource allocation
 - B. On-demand self-service
 - C. Manual provisioning
 - D. Single-tenant architecture
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Q2. In the Cloud SPI model, which layer provides ready-to-use applications?

- A. IaaS
 - B. PaaS
 - C. SaaS
 - D. NaaS
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Q3. Which cloud deployment model is shared by multiple organizations with similar requirements?

- A. Public cloud
 - B. Private cloud
 - C. Community cloud
 - D. Hybrid cloud
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Q4. A Service Level Agreement (SLA) primarily defines:

- A. Pricing discounts
 - B. Security vulnerabilities
 - C. Performance and availability commitments
 - D. API request formats
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Q5. Which service model gives users control over operating systems and applications?

- A. SaaS
 - B. PaaS
 - C. IaaS
 - D. FaaS
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Q6. Which cloud service category provides object storage?

- A. Compute
 - B. Storage
 - C. Integration
 - D. Security
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Q7. OpenStack is best described as:

- A. A proprietary cloud platform
 - B. A container orchestration tool
 - C. An open-source cloud operating system
 - D. A hypervisor
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Q8. Hyper-Converged Infrastructure (HCI) integrates:

- A. Compute, storage, and networking
 - B. Networking and security only
 - C. Storage and backup only
 - D. Compute and databases only
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Q9. Software Defined Networking (SDN) separates:

- A. Storage and compute
 - B. Control plane and data plane
 - C. Virtual machines and containers
 - D. Public and private networks
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Q10. VM Scale Sets are mainly used to:

- A. Manage databases
 - B. Deploy scalable VM instances
 - C. Configure virtual networks
 - D. Secure APIs
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☐ **MEDIUM (15 Questions)**

Q11. Which cloud deployment model best suits organizations with strict regulatory compliance?

- A. Public cloud
 - B. Private cloud
 - C. Hybrid cloud
 - D. Community cloud
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Q12. Identity and Access Management (IAM) primarily enforces:

- A. Network encryption
 - B. Authentication and authorization
 - C. Data replication
 - D. Storage provisioning
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Q13. In cloud architecture, the responsibility of resource abstraction lies mainly with:

- A. Physical hardware
 - B. Virtualization layer
 - C. Application layer
 - D. User interface layer
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Q14. Which service category supports CI/CD pipelines and code collaboration?

- A. Media services
 - B. Developer tools
 - C. Mobile services
 - D. Integration services
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Q15. A key cloud development best practice is:

- A. Hard-coding credentials
 - B. Manual scaling
 - C. Designing for failure
 - D. Using single availability zones
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Q16. In OpenStack, Nova is responsible for:

- A. Object storage
 - B. Identity management
 - C. Compute services
 - D. Networking
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Q17. Compared to traditional cloud, HCI primarily improves:

- A. Internet bandwidth
 - B. Operational simplicity
 - C. Application portability
 - D. Vendor lock-in
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Q18. Which SDN component makes forwarding decisions?

- A. Data plane
- B. Control plane

- C. Application plane
 - D. Physical plane
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Q19. App Services in cloud platforms are mainly used for:

- A. Running container clusters
 - B. Hosting web and mobile applications
 - C. Managing virtual networks
 - D. Provisioning storage
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Q20. API Apps are best suited for:

- A. Background batch processing
 - B. Exposing backend services through APIs
 - C. Managing user identities
 - D. Virtual machine provisioning
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Q21. In virtual network configuration using SDN, policies are enforced by:

- A. Physical switches
 - B. Hypervisors only
 - C. Centralized controllers
 - D. Storage controllers
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Q22. Cloud API integration primarily enables:

- A. Manual resource management
 - B. Automation and service interoperability
 - C. Network isolation
 - D. Data encryption
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Q23. During DC to cloud migration, the “lift-and-shift” approach implies:

- A. Re-architecting applications
 - B. Migrating without code changes
 - C. Containerizing applications
 - D. Replacing legacy systems
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Q24. Storage synchronization in DC/DR setups ensures:

- A. Load balancing
 - B. Data consistency between sites
 - C. Faster compute performance
 - D. Reduced network latency
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Q25. Bootstrapping a Chef or Puppet server mainly involves:

- A. Installing hypervisors
 - B. Initial configuration and agent registration
 - C. Creating VM templates
 - D. Migrating databases
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HARD (15 Questions)

Q26. Which cloud characteristic allows resources to automatically scale based on demand?

- A. Resource pooling
 - B. Measured service
 - C. Rapid elasticity
 - D. Broad network access
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Q27. In a hybrid cloud scenario, data sensitivity typically determines:

- A. API formats
 - B. VM instance types
 - C. Workload placement
 - D. Network protocols
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Q28. A major architectural challenge in cloud security is:

- A. Hardware failures
 - B. Shared responsibility model ambiguity
 - C. Unlimited scalability
 - D. Excess storage capacity
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Q29. In cloud architecture, stateless application design is preferred because it:

- A. Reduces storage cost
 - B. Simplifies horizontal scaling
 - C. Eliminates network latency
 - D. Improves encryption
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Q30. OpenStack Neutron primarily provides:

- A. Object storage
 - B. Image management
 - C. Networking services
 - D. Compute scheduling
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Q31. Compared to cloud infrastructure, HCI deployments are typically:

- A. More complex to manage
 - B. Hardware-centric and tightly integrated
 - C. Fully serverless
 - D. Dependent on public internet
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Q32. SDN enables network programmability by:

- A. Using proprietary hardware
 - B. Centralizing control logic
 - C. Eliminating routing protocols
 - D. Disabling virtualization
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Q33. VM Scale Sets combined with load balancers primarily enhance:

- A. Data durability
 - B. Application availability and scalability
 - C. Storage throughput
 - D. Network encryption
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Q34. Cloud-based search services are optimized for:

- A. Transactional consistency
 - B. Full-text indexing and querying
 - C. Block-level storage
 - D. VM provisioning
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Q35. In DC/DR migration, asynchronous replication is preferred when:

- A. Zero data loss is mandatory
 - B. Latency between sites is high
 - C. Sites are in the same data center
 - D. Storage is local only
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Q36. Storage synchronization mechanisms must handle which critical issue?

- A. API throttling
 - B. Data conflict resolution
 - C. VM scheduling
 - D. User authentication
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Q37. Chef and Puppet differ from traditional scripts because they:

- A. Are executed manually
 - B. Are state-driven and idempotent
 - C. Require GUI interaction
 - D. Depend on virtualization
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Q38. In large-scale cloud environments, API rate limiting is essential to:

- A. Increase latency
 - B. Prevent service abuse and instability
 - C. Improve encryption
 - D. Reduce storage cost
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Q39. A key risk during DC/DR migration is:

- A. Over-provisioning compute
 - B. Data inconsistency during cutover
 - C. Excess monitoring
 - D. API compatibility
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Q40. Bootstrapping configuration management servers enables:

- A. Stateless application design
- B. Automated and consistent infrastructure configuration
- C. Manual system administration
- D. Reduced network bandwidth