

# ❑ EASY (10 Questions)

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**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)

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**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)**

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**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