

cloud computing exam questions answers

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Cloud Computing Exam Questions Answers: A Comprehensive Guide for Aspiring Professionals

In today's digital era, cloud computing has become the backbone of modern business infrastructure. Whether you're preparing for the Amazon Web Services (AWS) Certified Solutions Architect, Microsoft Azure Administrator, or Google Cloud Professional Cloud Architect, mastering cloud concepts is essential. This guide delivers a deep dive into **cloud computing exam questions answers**, offering not only sample questions but also the reasoning behind each solution. By the end, you'll have a clearer understanding of what examiners look for and how to articulate your knowledge confidently.

Why Cloud Computing Exams Matter

Cloud certifications are more than just a résumé boost; they validate your ability to design, deploy, and manage cloud solutions that meet real-world business needs. Employers use these credentials to:

- Gauge technical proficiency and architectural thinking.
- Ensure compliance with industry best practices.
- Reduce the learning curve for new hires.

Because of this high demand, exam questions are designed to test both breadth and depth of knowledge. A strong grasp of fundamentals, coupled with the ability to apply them to complex scenarios, is the key to success.

Common Exam Formats and What to Expect

While each vendor has its own style, most cloud exams share similar structures:

1. Multiple Choice Questions (MCQs) – Often with one correct answer.
2. Multiple Answer Questions – Choose all that apply.
3. Scenario Based Questions – Real world business problems.
4. Hands On Labs – Practical tasks in a sandbox environment.

Understanding these formats helps you tailor your study plan. For example, scenario questions require you to synthesize knowledge across several domains, while MCQs test recall and precise understanding.

Key Cloud Concepts You'll Encounter

Below is a quick refresher on the core topics that frequently appear in exams. Each concept is paired with a sample question and answer.

1. Cloud Service Models (IaaS, PaaS, SaaS)

Question: Which cloud service model best suits a company that wants to build a custom web application without managing the underlying operating system?

Answer: *Platform as a Service (PaaS)*– PaaS provides a managed runtime environment, allowing developers to focus on code rather than infrastructure.

2. Deployment Models (Public, Private, Hybrid, Community)

Question: A healthcare organization needs to keep patient data on-premises for regulatory reasons but wants to use the cloud for analytics. Which deployment model is appropriate?

Answer: *Hybrid Cloud*— This model combines on-premises private cloud with public cloud services, enabling secure data residency while leveraging public resources.

3. Identity and Access Management (IAM)

Question: Which IAM feature allows you to grant temporary access to a third party vendor?

Answer: *IAM Roles with Temporary Credentials (STS)*— Security Token Service provides short lived access tokens, minimizing long term security risk.

4. Networking (VPC, Subnets, Security Groups, NAT)

Question: You need to allow inbound traffic from the internet to an EC2 instance while keeping the instance isolated from the internet. What should you configure?

Answer: *Public Subnet with a NAT Gateway and Security Group Rules*— Place the instance in a public subnet, attach a NAT gateway, and use security groups to restrict inbound traffic to required ports.

5. Storage Services (S3, EBS, Glacier, CloudFront)

Question: Which storage solution is best for long term archival of infrequently accessed data?

Answer: *Amazon Glacier*— Designed for low cost, long term data archival with retrieval times ranging from minutes to hours.

6. Compute Services (EC2, Lambda, ECS, EKS)

Question: Which compute option is ideal for running stateless microservices that can scale automatically?

Answer: *Amazon ECS (Elastic Container Service) with Fargate*— Fargate abstracts the underlying servers, allowing containers to scale automatically.

7. Security Best Practices (Encryption, MFA, Security Audits)

Question: How can you ensure data at rest is encrypted in an S3 bucket?

Answer: *Enable S3 Bucket Default Encryption*— Use SSE S3 or SSE KMS to encrypt objects automatically upon upload.

Sample Cloud Computing Exam Questions and Answers

Below are realistic questions drawn from various vendor exams, complete with detailed answers and explanations.

Question 1: High Availability Architecture

A company wants to deploy a web application across multiple regions to ensure high availability and low latency. Which architecture is most suitable?

1. Deploy a single EC2 instance in each region.
2. Use a load balancer in each region with auto scaling groups.
3. Host the application in a single region and use Route 53 latency based routing.
4. Deploy the application in a private cloud with a VPN to each region.

Answer: 2. Use a load balancer in each region with auto scaling groups.

Explanation:Multi region deployment with regional load balancers and auto scaling groups provides fault tolerance, regional traffic routing, and seamless scaling. Option 3 relies on a single region, which is not truly multi region. Options 1 and 4 lack scalability and load balancing.

Question 2: Cost Optimization

Which approach best reduces compute costs for a sporadic batch processing workload?

1. Reserve 3 year instances.
2. Use Spot Instances with a maximum price ceiling.
3. Deploy a dedicated host.
4. Use a large on demand instance.

Answer: 2. Use Spot Instances with a maximum price ceiling.

Explanation:Spot Instances offer up to 90% savings for fault tolerant workloads. Reserve instances are suitable for predictable, steady workloads. Dedicated hosts and large on demand instances are more expensive.

Question 3: Disaster Recovery Strategy

A financial institution requires a recovery point objective (RPO) of 15 minutes and a recovery time objective (RTO) of 30 minutes. Which solution aligns with these requirements?

1. Multi AZ deployment with automated backups.
2. Cross region replication using Amazon RDS read replicas.
3. Daily snapshots of EBS volumes.
4. Manual data export to on premises storage.

Answer: 2. Cross region replication using Amazon RDS read replicas.

Explanation:Read replicas provide near real time data replication, meeting the 15 minute RPO. Multi AZ ensures high availability but may not guarantee sub hour RPO. Snapshots and manual exports are too slow.

Question 4: Security Incident Response

After discovering a potential data exfiltration, which immediate action should an administrator take?

1. Delete the compromised IAM user.
2. Disable the IAM user's password policy.
3. Isolate the affected EC2 instance by moving it to a private subnet.
4. Enable CloudTrail logging for all services.

Answer: 3. Isolate the affected EC2 instance by moving it to a private subnet.

Explanation:Isolation prevents further data leakage while investigation proceeds. Enabling CloudTrail is essential but not the first immediate step. Deleting IAM users or disabling policies without evidence can be counterproductive.

Deep Dive into Cloud Architecture Patterns

Exam questions often test your knowledge of architectural patterns that solve common business challenges. Below are three critical patterns, each illustrated with a scenario, question, and answer.

1. Microservices Pattern

Scenario:A retail company wants to launch a new product line while ensuring rapid feature deployment and fault isolation.

Question: Which pattern best supports this goal?

1. Monolithic architecture with horizontal scaling.
2. Microservices with container orchestration.
3. Serverless functions for each API endpoint.
4. Legacy application modernization.

Answer: 2. *Microservices with container orchestration.*

Explanation: Microservices enable independent deployment, scaling, and fault isolation. Container orchestration (ECS/EKS) manages the lifecycle, while serverless functions may be too granular for a full product line.

2. Event Driven Architecture

Scenario: A logistics firm needs to trigger notifications when a package reaches a checkpoint.

Question: Which service should be used to decouple producers from consumers?

1. Amazon SQS
2. Amazon SNS
3. Amazon Kinesis Data Streams
4. Amazon EventBridge

Answer: 4. *Amazon EventBridge*

Explanation: EventBridge provides fine grained event routing and integration with SaaS applications, ideal for decoupling event producers and consumers. SNS is publish subscribe, SQS is a queue, and Kinesis is for streaming data.

3. Serverless Architecture

Scenario: A startup wants to process user uploads and generate thumbnails without managing servers.

Question: Which combination of services delivers the lowest operational overhead?

1. Lambda + S3 + CloudFront
2. EC2 + S3 + CloudFront
3. Fargate + S3 + CloudFront
4. Lightsail + S3 + CloudFront

Answer: 1. *Lambda + S3 + CloudFront*

Explanation: Lambda automatically scales, S3 stores uploads, and CloudFront delivers thumbnails globally. This serverless stack eliminates infrastructure management.

Study Tips for Mastering Cloud Exam Questions Answers

Exam preparation is as much about strategy as it is about knowledge. Here are proven tactics to boost your readiness.

- Build a Study Schedule – Allocate dedicated time each day to cover specific topics, ensuring balanced coverage across services.
- Hands On Labs – Nothing beats real world practice. Use free tiers or sandbox environments to experiment with services.
- Flashcards for Key Terms – Create cards for acronyms, service names, and best practice patterns.
- Mock Exams – Simulate exam conditions to build time management skills.

- Peer Discussions – Join study groups or online forums to clarify doubts and share insights.
- Review Explanations – For every wrong answer, read the rationale to avoid repeating mistakes.

Recommended Resources for Cloud

Baca Juga (Artikel Terkait)

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