

Domain 1: Cloud Concepts

1. Definition and benefits of cloud computing:
 - Elasticity, scalability, agility, and cost efficiency.
 - Pay-as-you-go pricing and reduced total cost of ownership.
 2. AWS Cloud economic benefits.
 3. Types of cloud computing:
 - **Infrastructure as a Service (IaaS).**
 - **Platform as a Service (PaaS).**
 - **Software as a Service (SaaS).**
 4. Cloud deployment models:
 - Public, Private, and Hybrid Cloud.
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Domain 2: Security and Compliance

1. **Shared Responsibility Model:**
 - Security **of** the cloud (AWS responsibility).
 - Security **in** the cloud (customer responsibility).
 2. AWS Identity and Access Management (IAM):
 - Users, Groups, Roles, and Policies.
 - Multi-Factor Authentication (MFA).
 3. AWS security services:
 - AWS Shield, WAF, and KMS.
 - Security Groups and Network ACLs.
 4. Data encryption options.
 5. Compliance programs and certifications:
 - GDPR, SOC, ISO, and HIPAA.
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Domain 3: Technology

1. AWS Global Infrastructure:
 - Regions, Availability Zones (AZ), and Edge Locations.
2. Compute:
 - Amazon EC2 (Instance types, purchasing options).
 - AWS Lambda (Serverless compute).
3. Storage:
 - Amazon S3 (Object storage, storage classes).
 - Amazon EBS (Block storage for EC2).
 - Amazon EFS (File storage).
4. Networking:
 - Amazon VPC (Subnets, security, routing).
 - Elastic Load Balancing (ELB).
5. Databases:
 - Amazon RDS (Relational).
 - Amazon DynamoDB (NoSQL).
 - Amazon Redshift (Data warehousing).

6. Monitoring and logging:
 - Amazon CloudWatch.
 - AWS CloudTrail.
 7. Migration and transfer:
 - AWS Snowball, Storage Gateway, and Migration Hub.
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Domain 4: Billing and Pricing

1. AWS Pricing Models:
 - On-Demand, Reserved, and Spot Instances.
 - Savings Plans and Dedicated Hosts.
 2. Free Tier and Cost Management:
 - AWS Budgets.
 - AWS Cost Explorer.
 3. AWS Total Cost of Ownership (TCO) and Pricing Calculator.
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Domain 5: Business Support and Best Practices

1. AWS Support Plans:
 - Basic, Developer, Business, and Enterprise Support.
 2. AWS Well-Architected Framework:
 - Five Pillars: Operational Excellence, Security, Reliability, Performance Efficiency, and Cost Optimization.
 3. AWS Marketplace and Partner Network (APN).
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General Exam Preparation Tips

- Review all core AWS services and their use cases.
- Understand high availability, fault tolerance, and disaster recovery.
- Familiarize yourself with AWS Management Console and CLI.
- Practice using AWS services through the free tier.
- Solve practice tests to get comfortable with exam-style questions.