

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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AWS Technology Essentials

Amazon Elastic Cloud Compute (EC2)

- Introduction to EC2
- Regions and availability zones (AZs)
- Pre-EC2 and EC2 instance types
- Comparison between Public IP and Elastic IP
- Demonstrating how to launch an AWS EC2 instance
- Introduction to AMIs and creating and copying an AMI

Amazon Virtual Private Cloud (VPC)

- What is Amazon VPC?
- VPC as a networking layer for EC2
- IP address and CIDR notations
- Components of VPC: Network interfaces, route tables, internet gateway, and NAT

- Security in VPC: Security groups and NACL, types of VPC, subnets, VPC peering with scenarios, VPC endpoints, and VPC pricing and design patterns

Amazon Simple Storage Service (S3) and Elastic Block Store (EBS)

- Introduction to AWS storage
- Pre-S3: Online cloud storage
- API and S3 consistency models
- Storage hierarchy and buckets in S3
- Objects in S3, metadata and storage classes, object versioning, object lifecycle management, cross-region replication, data encryption, connecting using VPC endpoint, and S3 pricing
- Introduction to EBS
- EBS volume types
- EBS snapshots
- Introduction to EFS
- Instance tenancy: Reserved and spot instances
- Pricing and design patterns

Amazon DynamoDB and Amazon Relational Database Service (RDS)

- What is a database? Types of databases and databases on AWS

- Introduction to Amazon RDS
- Multi-AZ deployments and the features of RDS
- Read replicas in RDS and reserved DB instances
- RDS pricing and design patterns
- Introduction to Amazon Aurora, benefits of Aurora, and Aurora pricing and design patterns
- Introduction to DynamoDB, components of DynamoDB, and DynamoDB pricing and design patterns
- What is Amazon Redshift? Advantages of Redshift
- What is ElastiCache? Why ElastiCache?

AWS Autoscaling

- Introduction to Autoscaling, vertical and horizontal scaling, the life cycle of Autoscaling
- Components of Autoscaling, scaling options and policy, and instance termination
- Using load balancer with Autoscaling

Amazon CloudWatch

- Pre-IAM and why access management?
- Amazon Resource Names (ARNs) and IAM features
- Multi-factor authentication (MFA) in IAM and JSON
- IAM policies, IAM permissions, IAM roles, identity federation, and pricing

- Introduction to CloudWatch, metrics and namespaces, CloudWatch architecture, dashboards in CW, CloudWatch alarms, CloudWatch logs, and pricing and design patterns
- Introduction to CloudTrail and tracking API usage

Amazon Elastic Load Balancing (ELB)

- Introduction to Elastic Load Balancer
- Types of ELB: Classic, Network, and Application
- Load Balancer architecture
- Cross-zone load balancing

Compliance and Security

- Shared responsibility model
- Compliance and security services
- AWS KMS

AWS Billing, Pricing, and Support Services

- AWS organizations
- AWS pricing and billing
- Cost tools
- Trusted Advisor
- AWS support plans
- AWS whitepapers