



**FUSION SOFTWARE
INSTITUTE**

aws



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- Intro to Cloud Computing
- Intro to Datacenters
- Intro to Cloud Models. IaaS, PaaS and SaaS.
- Intro to Amazon Web Services.
- Intro to AWS Management Console

NETWORKING IN AWS

- Intro to AWS VPC
- VPC Elements (VPC, Subnets, Internet Gateway, Routing Table, Routes)
- Creating your first VPC in AWS Management Console
- Create VPC in [AWS CLI](#) and [Cloud Shell](#)
- Inter VPC Peering
- NAT Gateway
- Site-to-Site IPsec VPN
- Security Groups and Access Control Lists

Virtualization in AWS

- Introduction to EC2
 - Create your Instance in EC2
 - Placement Groups, Boot Scripts, Key Pairs, etc.
 - Elastic Block Store volumes.
 - EBS Snapshots
 - AMI (Amazon Machine Image)
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- Monitoring EC2 Instances with CloudWatch
 - Configuring notification with Simple

NotificationService (SNS)

- Configuring Identity with Identity Access Management (IAM)
- User Accounts, Groups, Custom Policies, Roles, MFA, Password Policies, etc.
- Configuring application high availability withElastic Load Balancer (ELB)
- Configuring dynamic scaling with AutoScaling Groups (ASG)

Database in AWS

- Understanding Relational Database in AWS (RDS)
- Implementing RDS Database instance in AWS
- Accessing RDS in AWS
- Understanding NoSQL Database in AWS
- Implementing and Configuring Dynamo DB in AWS
- Intro to AWS ElastiCache

Web Application hosting in AWS

Introduction to Name Resolution in AWS

- Intro to DNS Name Resolution
- Intro to Route 53
- Domain registration
- Zone Hosting
- Creating Records in Zones
- Record Types

Intro to Storage in AWS

- Intro to Shared Storage
- Implementing Elastic File System (EFS)
- Mounting EFS Share on Linux Instances
- Intro to traditional Backups
- Intro to Glacier
- Creating Glacier Vault
- Backup and Restore data
- Intro to Object Storage
- Introduction to Simple Storage Service (S3)
- Create S3 bucket
- Upload file in S3 Bucket
- S3 Object Class
- Object URL
- S3 Versioning
- S3 Object Lock

- S3 Public Access
- S3 Replication and Lifecycle Rules
- End user access to S3
- Application connectivity to S3
- CloudFront with S3

Containers in AWS

- Intro to Containers
- Intro to Docker
- Intro to Elastic Container Services (ECS)
- ECS Cluster, Task Definitions, Service and Load Balancer
- ECS with IAM, Data Volumes and Auto Scaling
- Intro to Image Repository
- Intro to Elastic Container Registry (ECR)
- Implementing ECR
- Intro to Fargate

Other AWS Services Over View

- 2 Live Projects
- 100% Job Assurance
- Weekly Mock Interviews

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