



aws



AWS

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Introduction:

01

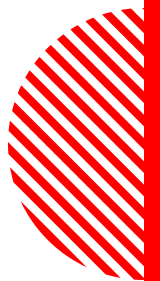
- Course Introduction
- Creating AWS Account
- What is cloud computing?
- Traditional IT Overview
- Different types of cloud
- AWS cloud overview
- Tour of console & services
- Shared Responsibility model

IAM- Identity and Access

02

Management:

- IAM Introduction
- Users and Groups
- IAM policies
- IAM MFA overview
- AWS Access keys, CLI and SDK
- AWS CLI setup on windows, mac and linux
- AWS cloud shell
- IAM roles for AWS services
- IAM security tools
- IAM Best practices
- Shared responsibility model for IAM



EC2- Elastic compute cloud:

03

- EC2 basics
- Creating an EC2 instance
- EC2 instance Types
- Security groups and ports
- How to ssh to ec2 instance using windows, mac, linux
- EC2 instance connect
- EC2 Instance Roles Demo
- EC2 purchasing Options
- Shared responsibility model for EC2

EC2 Instance storage:

04

- EBS Overview
 - EBS snapshots Overview
 - AMI Overview
 - EC2Image builder overview
 - EC2 Instance store
 - EFS overview
 - Amazon FSx overview
- 

ELB and ASG - Elastic Load Balancing and Application load balancer

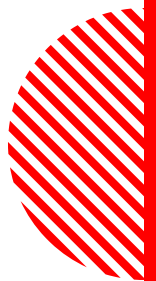
05

- High availability, scalability, elastic load balancing
- Elastic load balancing overview
- Application load balancer
- Autoscaling groups
- Autoscaling groups strategies
- ELB and ASG summary

Amazon S3

06

- S3 overview
- S3 security: Bucket policy
- S3 website overview
- S3 versioning overview
- S3 replication overview
- S3 storage classes overview
- S3 Encryption
- AWS snow family overview Storage gateway overview
- S3 summary




Database and Analytics

07

- Databases introduction
- RDS and Aurora Overview
- RDS deployment options
- Elastic cache overview
- Dynamo DB overview
- DynamoDB global Tables
- Redshift overview
- EMR overview
- Athena overview
- Quick sight overview
- Document DB overview
- Neptune overview
- QLDB overview
- Managed blockchain overview
- Glue overview
- DMS overview
- Database and analytics summary

Other compute services:

08

- ECS and Lambda
 - What is docker?
 - ECS, Fargate & ECR overview
 - serverless Introduction
 - Lambda overview
 - API gateway overview
 - Batch overview
 - LightSail overview
- 

Deployments and Managing Infrastructure overview

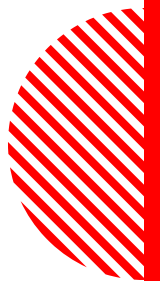
09

- CloudFormation Overview
- CDK overview
- Beanstalk Overview
- Code Deploy overview
- Code commit overview
- Code build overview
- Code pipeline overview
- Code artifact overview
- Code star overview
- Cloud9 overview
- Systems manager overview
- SSM session manager
- Ops work overview
- Deployment summary

Leveraging the AWS Global Infrastructure

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- Why Global Applications
- Route 53 Overview
- Cloud Front Overview
- S3 Transfer Acceleration
- AWS Global Accelerator
- AWS Outposts
- AWS WaveLength
- AWS Local Zones
- Global Applications Architecture



Cloud Integrations:

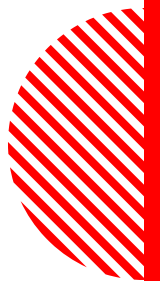
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- cloud Integration overview
- SQS Overview
- Kinesis Overview
- SNS Overview
- Amazon MQ overview
- Cloud Integrations Summary

Cloud Monitoring:

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- CloudWatch Metrics & Cloud watch monitoring
- Cloud watch logs
- Event Bridge Overview
- Cloud Trail overview
- X-Ray Overview
- CodeGuru Overview
- AWS Health Dashboard
- Cloud Monitoring Summary



VPC & Networking

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- VPC Overview
- IP addresses in AWS
- VPC, Subnet, Internet gateway
- security groups and network access
- VPC flow Logs & VPC peering
- VPC Endpoints - Interface and gateway
- Private link
- Direct connect & site to site vpn
- client vpn
- Transit gateway overview
- VPC networking summary

Security & Compliance

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- DDoS Protection: WAF & Shield
 - AWS Network Firewall
 - Penetration Testing
 - Encryption with KMS & Cloud HSM
 - AWS Certificate Manager(ACM)
 - Secrets Manager Overview
 - Artifact Overview
 - Root User Privileges
 - IAM Access Analyzer
 - Security & Compliance Summary
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