Amazon Web Services (AWS)

Duration: 50 Hours

	Introduction to Cloud Computing Cloud Environment Architecture Cloud Computing Models Introduction to Amazon Web Services AWS Global Infrastructure	
<u> </u>	ction 2: Elastic Compute Cloud Launching our first EC2 instance EC2 instance types & Pricing Models Creating AMI and Image Templates Understanding Security Groups - a Server side Firewall	
	Introduction to Network Switches & Virtual Private Cloud VPC & Subnets Private and Public Subnets Internet Gateways, VPC Peering & NAT Gateways VPN Setup IP Addressing in AWS	
Section 4: Storage		
	Introduction to Block & Object storage mechanism	
	Introduction to Elastic Block Store - EBS EBS Snapshots	
	EBS Volume Types	
	Instance Store Volumes	
	Introduction to Simple Storage Service (S3)	
	Features of S3	
	Storage Types	

 □ Static Website Hosting □ Versioning □ Life Cycle Policy □ Cross Region Replication □ Encryption □ Basics of Athena □ Introduction to EFS □ Connect a drive via network □ Share the drive among multiple servers
Section 5: Elastic Load Balancers and Elasticity Understanding High Availability Configuration ELB Configuration with Classic and Application Load Balancers Auto Scaling
Section 6: Identity & Access Management Understanding the IAM Policies IAM User, IAM Policy and IAM Role
Section 7: Databases Introduction to Relational Databases Creating our first database structure in MySQL Getting started with DynamoDB Know about ElastiCache
Section 8: Decoupling Applications Amazon SQS Amazon SNS Amazon SES Kinesis Overview
Section 9: Domain Name System Introduction to DNS

 □ Understanding DNS Records □ Introduction to Route53 □ Register a Domain using Route 53 □ Manage DNS Hosts
Section 10: AWS CloudFront Introduction to CloudFront CloudFront with S3 CloudFront Advanced Concepts
Section 11: AWS ECS Getting Started with Containerization ECS Services and Tasks Load Balancing in ECS ECS Scaling
Section 12: AWS Storage Extras AWS Snowball Storage Gateways Hands on API Gateways
Section 13: Serverless Computing Serverless Introduction Lambda Setting up Server Auto Start with a Lambda Function Elastic Beanstalk Host a Sample PHP website using Elastic Beanstalk
Section 14: AWS CLI and SDK ☐ Getting Started with AWS CLI ☐ AWS CLI setup on EC2 instances ☐ Connect EC2 instance with other AWS services like S3 or SNS or SES
Section 15: AWS Encryptions

Khushbumali1989@gmail.com

 □ AWS Security □ KMS Overview □ SSM Parameter Store □ CouldHSM
Section 16: Migration Service and Disaster Recovery
□ Database Migration Services
□ DataSync Overview
□ AWS Backups
Section 17: Monitoring
☐ Understanding CloudWatch
☐ Setup Alarms for Matrix changes
☐ Auditing AWS environment with CloudTrail
☐ Schedule Event Rules using Target based services
Section 18: Other Services
□ AWS Key Management Service
☐ Systems Manager Parameter Store