

## Day - 1

- Welcome: Course Overview
- VPC: Building Your Network Foundation
- VPC: The Nitty Gritty Configuration
- VPC: Security Groups and NACLs
- VPC: Configuring VPN Connections
- VPC: Designing for High Availability
- EC2: Instance Types and Performance Implications
- EBS: Understanding EBS
- EBS: Snapshot Backup and Replication
- EBS: Getting More Speed and IOPS
- S3: Understanding the Properties of S3
- S3: Securing S3 Buckets
- S3: Website Hosting from S3
- ELB: Elastic Load Balancer Concepts
- ELB: Elastic Load Balancer Implementation
- AutoScaling: Key AWS AutoScaling Concepts
- DNS: Understanding Route 53 Capabilities
- DNS: Route 53 Configuration
- IAM: Understanding IAM Concepts
- IAM: A Walkthrough IAM
- Monitoring: Understanding and Configuring CloudWatch
- Backups: Understanding EBS, S3, and RDS Backup Options
- RDS: Understanding RDS Foundations
- RDS: High Availability and Load Sharing
- SECURE: Handling IT Audits, Security Token Service, and Trusted Advisor
- EXAM: Study Strategies and Exam Mindset

- **Understand the Computing services, including**

- AWS EC2: Amazon Elastic Compute Cloud - Instance Types and Performance Implications

- **Understand the Storage services, including**

- AWS S3: Amazon Simple Storage Service - Understanding the Properties of S3
- AWS S3: Amazon Simple Storage Service - Securing S3 Buckets
- AWS S3: Amazon Simple Storage Service - Website Hosting from S3
- AWS EBS: Amazon Elastic Block Store - Understanding EBS
- AWS EBS: Amazon Elastic Block Store - Snapshot Backup and Replication
- AWS EBS: Amazon Elastic Block Store - Getting More Speed and IOPS

- **Understand AWS management tools, including**

- AWSAuto Scaling
- Amazon CloudWatch

- **Understand the Networking services, including**

- AWS VPC: Building Your Network Foundation
- AWS VPC: The Nitty Gritty Configuration
- AWS VPC: Security Groups and NACLs
- AWS VPC: Configuring VPN Connections

- **Understand the security services, including**

- Amazon Web Services: Overview of Security Processes
- IAM: AWS Identity and Access Management - Understanding IAM Concepts
- IAM: AWS Identity and Access Management - A Walkthrough IAM
- AWS Security Groups

- **Understand the Computing services, including**

- AWS EC2: EC2 Container Service - A world of Docker

- **Understand the security services, including**

- AWS Inspector
- AWS Directory Service
- AWS Config

- **Understand AWS management tools, including**

- ELB: Elastic Load Balancing - Elastic Load Balancer Concepts
- ELB: Elastic Load Balancing - Elastic Load Balancer Implementation
- AWS Trusted Advisor
- AWS CloudFormation

- **Understand the Networking services, including**

- Cluster Add-ons
- AWS VPC: Designing for High Availability
- Cloud Front
- AWS Route 53: DNS - Understanding Route 53 Capabilities
- AWS Route 53: Route 53 Configuration

- **Understand the Database services, including**

- Amazon DynamoDB and Amazon Relational Database Service (RDS).
- Amazon DynamoDB

## Day - 4

- **Understand the Computing services, including**
  - AWS Lambda
  - AWS Elastic Beanstalk
- **Understand the Database services, including**
  - AWS Elastic Cache
  - AWS Redshift.
- **AWS Best Practices**
  - AWS Networking Best Practices
  - Backup and Recovery Approaches Using AWS
  - Troubleshooting AWS Environment

- **Understand the Networking services, including**
  - AWS Direct Connect
- **Understand AWS management tools, including**
  - Cloud Trail
  - Config
  - OpsWorks
  - Service Catalog
- **Understand AWS management tools, including**
  - Cloud Trail
  - Config
  - OpsWorks
  - Service Catalog
- **AWS Integration with**
  - Chef
  - Puppet
  - Docker
  - Jenkins

- **Understand AWS management tools, including**

- Trusted Advisor
- Managed Services
- Application Discovery Services.

- **Security, Identity & Compliance**

- WAF & Shield
- Compliance Reports.

- **Lab with Hands-on experience**

- Automating and Decoupling Your Infrastructure
- Hosting a New Web Application on AWS
- Large-Scale Design Patterns and Case Studies

- **Internet of Thing**

- AWS IoT

- **Developer Tools**

- CodeCommit
- CodeBuild
- CodeDeploy
- CodePipeline

- **AWS Best Security Practices**

- Network Security which includes Transfer security and Firewalling
- Interfaces Security which includes API, Administrative interface, User interface and Authentication
- Data Security which includes Cryptography, Redundancy, Disposal
- Virtualisation Security which includes Isolation, Hypervisor vulnerabilities, Data leakage, VM identification and Cross-VM attacks
- Governance Security which includes Data control, Security control, Lock-in
- Compliance includes Service Level Agreements (SLA), Loss of service, Audit and Service conformity
- Legal Issues includes Data location, E-discovery, Provider privilege and Legislation.