

Summary

This Instructor Led Training course is for developers, Administrators and architects who want to get hands-on experience on cloud computing.

Instructor profile

Mr. Avinash Thipparthi is a Certified AWS Solutions Architect, RedHat Certified System Administrator and Microsoft Certified professional over 9+ years of experience in IT Industry.

Duration

25 Working hours

Objectives

Objectives of the course

- Compute (EC2)
- Storage (S3, EBS, EFS, Storage Gateway & Snowball)
- Database (RDS, DMS, Redshift)
- Network and Content Delivery (Route53 VPC & CloudFront)
- Management Tools (CloudWatch Cloud Formation Trusted Advisor)
- Security & Identity Compliance (IAM)
- Application Services (SWF, Elastic Transcoder)
- Messaging (SNS, SQL & SES)

Prerequisites

- Absolute Beginners. No prior AWS experience is necessary.
- Previous System Administration/ Development knowledge would be added advantage.
- System Administrators Interested in Deploying Applications on AWS
- Cloud Computing enthusiasts

Setup requirements

- Need to set up an AWS Account (Most of the Servers comes with AWS free tier eligibility)
- **Windows:** Putty, Putty KeyGen and Web Browser with Internet connectivity.
- **Linux/Mac :** Terminal

Note: For creating AWS free tier account you need to provide credit/debit card details.

Course Content

Module 1: Introduction

Lesson 1: Introduction to cloud computing

Lesson 2: Cloud computing models

Lesson 3: Introduction to AWS

Lesson 4: AWS Account creation & Free tier limitations overview

Module 2: Identity Access Management

Lesson 5: IAM

Module 3: Storage

Lesson 6: S3, Storage classes and Versioning

Lesson 7: Life Cycle Management & CDN

Lesson 8: Security & Encryption

Lesson 9: Static Webhosting with S3 bucket

Lesson 10: Storage Gateway

Module 4: Compute

Lesson 11: Launch EC2 Instances

Lesson 12: Security groups

Lesson 13: Volumes and Snapshots

Lesson 14: RAID & RAID Configuration on windows

Lesson 15: Creating an AMI

Lesson 16: Bootstrap scripting

Lesson 17: Load Balancers & Health Checks

Lesson 18: Cloud Watch

Lesson 19: AWS CLI

Lesson 20: EC2 Roles

Lesson 21: Metadata

Lesson 22: Elastic File System

Lesson 23: Lambda (Server less Architecture)

Lesson 24: AWS Lightsail

Lesson 25: Elastic Beanstack

Module 5: Route 53

Lesson 26:DNS, DNS Records

Lesson 27:Routing Policies

Module 6: Databases

Lesson 28:Launching a RDS Instance

Lesson 29:Backups, Multi-AZ & Read Replicas

Lesson 30:DynamoDB

Lesson 31:Redshift

Lesson 32: Elasticache

Lesson 33: Amazon Aurora

Module 7: Networking

Lesson 34:Basics of Networking

Lesson 35:Creating custom VPC

Lesson 36: CloudFront

Module 8: Application Services

Lesson 37:SES

Lesson 38:SQS

Lesson 39:SWF

Lesson 40:SNS

Lesson 41:Cloud Formation

Lesson 42:ElasticTranscoder

Lesson 43: Trusted Advisor

Amazon White Papers review