

Course Content for AWS Cloud Training

Amazon Web Services-Essentials

Course Objectives:

- ❖ Recognize terminology and concepts as they relate to the AWS platform
- ❖ Navigate the AWS Management Console Understand the security measures AWS provides
- ❖ Differentiate AWS Storage options and create an Amazon Simple Storage Service (S3) bucket
- ❖ Recognize AWS Compute and Networking options and use Amazon Elastic Compute Cloud (EC2) and Amazon Elastic Block Storage (EBS)
- ❖ Identify Deployment and Management options
- ❖ Load balance and Auto-Scale with EC2
- ❖ Use EC2 APIs
- ❖ Debug AWS EC2 instance

Why Choose Apponix for AWS Cloud Training?

- Apponix has excellent qualified AWS Trainers
- 100% student satisfaction rate, we will continue that in future.
- 5000+ satisfied students overall till now.
- Excellent Lab facility for AWS Training
- There are no hard & fast rules for timings.
- All our trainers are min 7+ years of AWS cloud experience.

1: Introduction to AWS

- Navigate the AWS Management Console
- Recognise AWS Global Infrastructure
- Describe the security measures AWS provides
- Create an Amazon EC2 instance
- Remotely connecting to an EC2 instance
- Setting up Amazon Linux and Apache webserver
- Browsing Amazon Machine Images (AMI)
- Specifying security groups and key pairs
- Creating new images off of running instances

2: AWS Storage

- Identify key AWS storage options
- Describe Amazon EBS
- Use Amazon EBS with Amazon EC2
- Working with Volumes and snapshots
- Transmitting data in/out of the Amazon cloud

3: Installing Software in your Amazon Instance

- Implementing a Web server in an Amazon Linux/Windows Instance
- Configure the firewall to access a Webserver

4: Security in Public Cloud

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- Security issues in PublicCloud
- Securing the Access : Creating a RSA Public/Private Key for VMs
- Creating a software firewall
- Configuring firewall rules
- Securing the access with an Elastic IPs
- Managing users with Identity Access Management(IAM)

5: Alternate access

- Using EC2 Command Line APIs [from Windows/Linux machines]

6: Load-balancing with EC2 and Auto Scaling

- Creating and using LoadBalancers
- Distributing incoming traffic with elastic loadbalancing
- Dynamically adding and removing instances with AutoScaling

7: CloudWatch to be seen along with Auto Scaling

- Overview of Monitoring and Setting Alarms
- Visualising utilization metrics with CloudWatch
- Setting alarms to send and receive notifications

8: Simple Notification Services [to be seen along with Auto Scaling

- Using SNS to send Notifications

9: Amazon S3 Basics

- Creating Buckets
- Creating Folders
- Uploading Objects
- Making Objects Public
- Creating Buckets
- Securing Bucket/Object access
- Configuring a Bucket as Static Web Page
- Controlling Life Cycle of a Bucket
- Accessing Amazon Buckets from Windows/Linux desktops/Servers

10: Virtual Private Cloud

- Create a VPC [VPC with a Single Public Subnet]
- Create and attach an Internet gateway

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- Create an Amazon VPCsubnet
- Set up routing in the VPC
- Set up a security group to control the inbound and out bound traffic
- Launch an instance into the subnet
- VPC console to allocate an Elastic IP address and assign it to the instance
- Amazon EC2 console to terminate your instance and the Amazon VPC console to delete your VPC

11: AWS-RDS

- Overview of AWS RDS
- Launching a MySQL Database in RDS
- Creating Backups/Snapshots and Read Only DBs
- Connecting to RDS-DB using local DB-Clients
- Terminating a DB instance

12: AWS-IAM

- Creating Groups and Defining access policy
- Creating Users
- Login to AWS account using new users

13: Installing Software in your Amazon Instance

- Implementing a Web server in an Amazon Linux/WindowsInstance
- Configure the firewall to access a Webserver

14: AWS-CloudFormation

- Introduction to CloudFormation
- Launching instances in EC2 using Templates

15: AWS-CloudFront

- Concepts of AWS-CloudFront
- Host a Website with CloudFront

16: AWS-Route53

- Creating a Failover setup for Load Balancers running in different AWS regions[users need to have a registeredDomain]
- Health Check a private website

17 :AWS-Cloud Trial

- Using CloudTrial to trail the APICalls

18 : Hosting Applications with ElasticBeanstalk

- Improving application delivery with Platform as a Service(PaaS)
- Deploying scalable applications on the AWScloud
- Selecting and launching an application environment (sample application in PHPand MySQL)

19 :Dynamo DB

- Overview of AWS DynamoDB
- DynamoDB Tables and NamingConventions
- Data Types inDynamoDB
- DynamoDB CapacityUnits
- ConfiguringAlarms
- Tacking Backup andRestore

20 : Lambda Function

- Overview of AWS Lambda
- Creating a Lambda Function withNode.js
- Lambda Pricing & UploadingCode
- Connecting Lambda Functions to API GatewayEndpoints
- Accessing LambdaLogs
- Getting Started with Body MappingTemplates

21 : API Gateway

- Overview of APIGateway
- Create a RESTAPI
- CreateResource
- Create HTTPMethods
- DeployAPI
- Integrating with Lambdafunction

22 : Simple QueueService

- Overview ofSQS
- Create Standardqueue
- Create FIFOqueue
- With Timer or Delay to a Standardqueue

23 End user Computing, Organization setup and Resource Sharing with (SSO)

- Directory services (Launching Aws managed AD)
- SSO integration with AD users
- Work Email
- Work docks
- Workspaces
- Aws management SSO login

24 : AWS System Manager

- Run command
- Content De-duplication
- Delete the queue

25 : Compute

- 2 and 3 tier web architecture running in EC2 (windows and Linux)
- Multiple Child application Running in EC2 (windows and Linux)
- Light sail implementation
- ECS and ECR launching Docker images
- Understanding of launching On Demand Instances, Reserved, spot, Dedicated Hosts andDedicated Instance

26 : AWS-Automation with Python Boto3module

- Complete In Depth understanding and implantation AWS-Automation by usingBoto3 Module
- Launching EC2 and Entire VPC creation by using Python code.
- Creation S3 Buckets by writing python boto3module
- Creating IAM users and Roles and Polices by using Python boto3module

27 : Security, Identity and Compliance Management

- Securing the web application by using the WAF
- AWS Inspector
- AWS security Manager (SSL/TLS Certificates)
- AWS Shield
- AWS Artifact
- AWS Key Management Service
- Compliance
- Patch Manager

28 : AWS Cost Management

- AWS Cost Explorer
- AWS Budgets
- AWS Market place Subscriptions