



javabyKiran
java | selenium | python

AWS Solutions Architect Certification Training



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Program Overview:

Amazon Web Services (AWS) is a cloud service from Amazon, which provides services in the form of building blocks, these building blocks can be used to create and deploy any type of application in the cloud.

Amazon Web Services (AWS) provides on-demand computing resources and services in the cloud, with pay-as-you-go pricing. For example, you can run a server on AWS that you can log on to, configure, secure, and run just as you would a server that's sitting in front of you and it provides many of the same benefits: capacity exactly matches your need, you pay only for what you use.

Prerequisites

There are no prerequisites for this AWS training course.

Why Java by Kiran ?

- > Curriculum Designed by Experts.
- > Online Training, you can connect from home easily, be safe, and keep learning.
- > 100% Hands-on Training with Projects.
- > 100% Placement Assistance.
- > Trainers are working IT professional and working in leading Multi National Companies.
- > Ability to engage students with real time examples & case studies.
- > Mentors follow easy to understand style of presentation.
- > Doubt Sessions & Project Session.
- > Extensive training programs with Recorded Sessions.
- > Weekends Batches / Weekdays Batches facility Available.

Module 1 : AWS Account Basics of Cloud Computing

- > What is cloud computing?
- > Introduction to AWS
- > Global Infrastructure of AWS
- > AWS Services Walkthrough-HighLevel
- > AWS Benchmarks
- > AWS Account Creation
- > Management Console Walkthrough
- > Basic Account Management Setting
- > Introduction to Billing Dashboard & Cost Explorer
- Setting up Billing Alarm & Budget

Module 2 : AWS-IAM

- > Basics of Authentication & Authorisations
- > Introduction to Identity & Access Management
- > Components of IAM
- > Creating and Managing Users & Groups
- > Creating and Managing IAM Policies
- > Roles and its use cases
- > Multi-Factor Authentication - [MFA]
- > Security Features in IAM
- > Best Practices of IAM

Module 3 : AWS-S3

- > Basics of Storage System
- > Storage Services provided by AWS
- > Difference Between Object storage and Block Storage
- > Introduction to Simple Storage Service - S3
- > Components of S3
- > Important Properties of S3 bucket
- > Enabling and Managing Versioning on S3 bucket
- > Managing Logging on S3 Bucket
- > Creating Life-Cycle Management Rule S3
- > Hosting a static-website in S3
- > Cross-Region replication in S3
- > Transfer Accelerator in S3
- > MFA and Pre-signed URL in S3
- > Security feature of S3Encryption,Bucket Policy, Permission etc.
- > Snowball - Types & Use Cases
- > Managing S3 components using CLI Commands

Module 4 : AWS-EC2

- > Basics of Virtual Servers
- > Components of a Virtual Server
- > Introduction to Elastic Cloud Compute - Ec2
- > Use cases and important features of Ec2
- > Introduction to AMI - Its Uses
- > Introduction to Instance and its types
- > Security Groups - Creation & Management
- > Key Pair - Why & How
- > Launching & Connecting to Window Instance
- > Launching & Connecting to Linux Instance
- > Setting up a web server on linux Instance - Hosting a website
- > Elastic IP Address
- > Placement Group

Module 5 : AWS-EFS

- > Introduction to File System Storage
- > Understanding Use Cases
- > Introduction to Elastic File System - EFS
- > Configuration of EFS
- > Creating and using EFS with Multiple EC2 Instances
- > Troubleshooting in EFS

Module 6: AWS-LB Introduction to Load Balancer

- > Classic Load Balancer
- > Network Load Balancer
- > Application Load Balancer

Module 7: AWS-AS AutoScaling

- > Configuration of Autoscaling
- > Launch Configuration and LB Group
- > Horizontal vs Vertical Autoscaling

Module 8: AWS-VPC

- > Basics of Networking
- > IP Address and CIDR Block
- > Concept of Virtual Cloud - Private
- > Introduction to Virtual Private Cloud -VPC
- > Subnet and Route Tables
- > Internet Gateway
- > NAT Gateway
- > Creating and managing a NAT Instance
- > Network Access Control List - NACL
- > Security Group
- > VPC Endpoints
- > VPN (Theory)

Module 9: AWS-Route53

- > Introduction to DNS
- > Introduction to Route53
- > How Route53 Works
- > Domain Registration in Route53
- > Health Checks in Route53
- > Routing Policies in Route53
- > Creation of Hosted Zone
- > Managing Host Entries

Module 10: AWS-RDS

- > Introduction to Database - Its Components
- > Database Services provided by AWS
- > Introduction to RDS
- > Components of RDS
- > DB engines provided by RDS
- > Snapshots and Back-up in RDS
- > Read Replicas in RDS
- > Automated and Manual Backup
- > Snapshot Management

Module 11: AWS-DynamoDB

- > Introduction to NoSQL Database
- > Difference between SQL and NoSQL
- > Components of DynamoDB
- > DynamoDB Streams
- > Creating items in DynamoDB
- > Primary Key, Sort Key, Partition Key
- > Search & Query
- > Data Distribution in DynamoDB
- > Creating Table and loading data into DynamoDB
- > Backup and Monitoring in DynamoDB
- > Integration of DynamoDB with Lambda

Module 12: AWS-CFN

- > Introduction to CloudFormation-CFN
- > Important Components of CFN
- > Templates and its components
- > Creating and Managing stack
- > Creating template using template designer
- > Launching Wordpress site using CFN template
- > Designing Simple template to launch EC2 Instance
- > Instance
- > Installation of LAMP, Spack on EC2

Module 13: AWS-SQS

- > Introduction to Simple Queuing Service
- > How SQS Works
- > Architectural Walkthrough
- > Important Components of SQS
- > Integration of SQS with SNS

Module 14 AWS-SNS

- > Introduction to Simple Notification Service - SNS
- > How SNS Works ?
- > Important Components of SNS
- > Creating and Managing Topics in SNS
- > Adding Subscriber in SNS
- > Managing SNS Policy
- > Creating Alarm with SNS & S3

Module 15: AWS-EB

- > Introduction to Elastic Beanstalk I
- > Important Concepts in EB
- > Managing Environments in EB
- > Managing Applications in EB
- > EB Platforms
- > Getting started with EB

Module 16: AWS-Systems Manager

- > Introduction to Systems Manager
- > How Systems Manager Works
- > Architectural Walkthrough
- > Important Components of Systems Manager

Module 17: AWS-WAF

- > Web ACL
- > Rule
- > Rule Group
- > OWASP Rules
- > IP Set
- > Integration of Cloud Front & LB with WAF

Module 18: AWS-Rekognition

- > Integration of Rekognition with Lambda
- > Text Rekognition
- > Image Rekognition
- > Image Moderation
- > Image Moderation Facial Analysis
- > Face Recognition
- > Object and Scene Detection
- > Face Comparison

Module 19: AWS-API Gateway

- > How API Gateway Works
- > Why Should we use API Gateway
- > Creation of Resource
- > Creation of Methods
- > Response Header
- > Basic Settings
- > Use Case Discussion
- > Integration with Lambda

Module 20: AWS-Lightsail

- > Introduction to Lightsail
- > How Lightsail Works
- > Configuration of Lightsail

Module 21: AWS-Elastic Block Storage

- > Introduction to EBS
- > How EBS Works
- > Existence of EBS in AV
- > Mounting and Un-mounting of EBS
- > Snapshot of EBS
- > Customized AMI

Module 22: AWS-Lambda

- > Important Components of Lambda
- > Creating simple function in Lambda
- > Creating and Managing triggers in Lambda
- > Sample Code run using Lambda
- > Integration of Lambda with API Gateway

Module 23: AWS-Codepipeline

- > Important Components of CloudWatch
- > Creating and Managing metrics in CloudWatch
- > Creating and managing Events in CloudWatch
- > Creating and Managing Dashboards in CloudWatch
- > Creating and managing Alarms in CloudWatch
- > Logs and Log agent in CloudWatch

Module 24: AWS-CloudTrail

- > Accessing CloudTrail with console
- > Configuring CloudTrail with S3

Module 25: AWS-DocumentDB

- > MongoDB
- > Integration of DocumentDB with Cloud9
- > Integration of DocumentDB with Ec2

Module 26: AWS-Redshift

- > Redshift Cluster Managment
- > Redshift Snapshot Managment
- > Query Editor

Module 27: AWS-ElastiCache

- > ElastiCache with Ec2
- > Redis Memcached
- > Redis Cluster Managment

Tools Covered:



Amazon EC2



Amazon Elastic
Block Store



AWS Identity and Access
Management



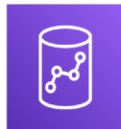
AWS Snowball
Edge



Amazon
CloudFront



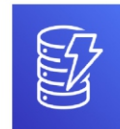
SWF



Amazon
Redshift



Elastic Load
Balancing



Amazon
DynamoDB



Lambda
function



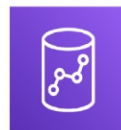
Amazon Simple
Notification Service



Amazon Simple
Queue Service



Elastic Load
Balancing



Amazon
Redshift

Tools Covered:



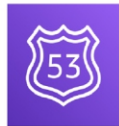
Auto Scaling



Amazon Elastic Transcoder



Amazon S3 Glacier



Amazon Route 53



Amazon RDS



Amazon Aurora instance



Amazon ElastiCache



Amazon VPC



Amazon VPC



AWS CloudFormation



Amazon CloudWatch



AWS CloudTrail




AWS Database Migration Service



AWS Trusted Advisor

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