AWS training in Bangalore from Besant Technologies, one of the top-notch AWS training institute in Bangalore help you acquire complete knowledge and skills on AWS with real-world projects and case studies.

Besant Technologies AWS Course Syllabus

Module 1: Linux Fundamentals

- Overview of all basic commands
- Vim editor modes
- Filesystem hierarchy – Basic topics
- File and directories creation
- Grep
- Filter commands (head, tail, more, less)
- Creating users and groups
- Important files related
- Modifying, deleting users and group
- Linux permissions
- Basic permissions overview
- Software management
- Yellow dog update modifier(yum)
- Yum commands
- Different run levels
- Services and daemons

Module 2: Why Cloud?

- Why Cloud and what is Cloud Computing?
- Identify the features and benefits of cloud computing
- Different types of Cloud Computing deployment model
- Public Cloud, Private Cloud, Hybrid Cloud
- Virtualization – An essential in cloud

- Virtualization in Cloud model

- Different types of virtualization

- Hypervisor – Benefits

- Different types of services and its difference in Cloud computing

- IaaS, PaaS, SaaS

- Importance of scaling in cloud computing

- Different types of scaling and its applications

- Issues we overcome using cloud and applications

- Cost model that we use in cloud computing

Module 3: AWS – An overview

- Describe the features of AWS

- The features of AWS marketplace

- Describe the features of Amazon Compute Services

- Describe the features of Amazon Storage Services

- Describe the features of Amazon Network Services

- Describe the features of Amazon Database services

- Describe about various services in AWS

- Global Infrastructure – Regions and Availability Zones

- Create a free tier account in AWS and onboarding

- Introduction AWS management console

Module 4: Understand Identity Access Management of AWS

- Protect your AWS by different authentication system

- Password policies set for users

- AWS User Account and Groups in detail

- Creating custom policies in AWS

- Introduction about Roles and its use

- Creating Roles and associating policies

- Creating programmatic access and management console access for users

- Associating policies to the user and groups

Module 5: EC2 Instance

- Describe AMI and AWS Marketplace templates

- Launch a basic EC2 instance

- Different types of Instances Reserved, On-demand, Spot, Dedicated

- Security groups and tags for EC2 instance

- Public key – Private key introduction and protecting EC2 with keys

- Attaching and detaching EBS volumes

- Launch an ec2 instance from an AMI

- Create custom AMI and working with different region

- Make use of amazon EBS volume and create snapshots

- Manage the configuration of your application

- Deploying a new instance from the created AMI

Module 6: Auto-scaling

- Get Started with Auto Scaling Using the Console

- Creating Launch configurations and make use of it for autoscaling groups

- Maintain a Fixed Number of Running EC2 Instances

- Dynamic Scaling

- The lifecycle of auto scaling

- Policies of auto scaling

Module 7: Load Balancing

- Introduction to Load balancer (ELB)

- Different types of Load balancer in AWS

- Application Load balancer

- Network Load balancer

- Classic Load balancer

- Migrating classic load balancer to new load balancer

- Components and types of load balancing

Module 8: EBS (Elastic Block Storage)

- Create EBS volumes

- Delete EBS Volumes

- Attach and detach EBS volumes with EC2 instance

- Creating and deleting snapshots

Module 9: Object Storage in Cloud

- Understanding S3 durability and redundancy

- Introduction about S3 Buckets

- How S3 Uploading works and how to Download

- How to S3 Permissions

- How to implement S3 Object Versioning S3 Lifecycle Policies

- Storage Gateway

- Import Export

- S3 Transfer Acceleration

- Glacier storage

Module 10: Cloud Front

- Describing cloud front

- Creating a cloud front distribution

- Hosting a website of cloud front distribution

- Implementing global restrictions

- Configuring origins and behaviors

Module 11: Route53

- Describe Hosted zones and Domain name understanding

- How to create hosted zones

- Hosting a website with custom domain name

- Understanding routing policies

Module 12: AWS Security Management

- Describing Security Practices for Cloud Deployment

- AWS Shared Responsibilities and Securities

- Importance of Cloud Trail

- Describing Trust advisor

Module 13: Amazon Virtual Private Cloud (VPC)

- Introduction to Amazon Virtual Private Cloud (VPC).

- VPC Advantages and understanding IP addressing CIDR

- Default and Non-default VPC

- Different Components in VPC

- Describe, create, and manage Amazon Virtual Private Cloud

- Amazon VPC, Private Subnet, and Public Subnet

- AWS Networking, Security Groups, and Network ACLs

- Configuration and management of VPN connectivity

- Subnet and Subnet Mask

Module 14: Relational Database Service (RDS)

- Introduction to RDS

- Different database services of AWS: Amazon RDS, Dynamo DB, Redshift etc.

- Create MYSQL RDS Instance, Oracle RDS Instance, MS SQL RDS Instance

- Configuring the database

- Configuring backups

- Configuring the maintenance windows

- Connecting to the database

Module 15: NDynamo DB

- Creating a dynamo dB

- Adding data manually

- Learn about strong and eventual consistency

- Calculating Read write consistency

- Configuring alarms

Module 16: Monitoring Services

- Knowledge on Cloud watch – A monitoring service

- Create and Configuring Monitoring services

- How to perform Setting thresholds and Configuring actions

- Creating a cloud watch alarm

- Getting statistics for ec2 instances

- Monitoring other AWS services

- Configuring Notifications

- Integrating cloud watch with Auto scaling

Module 17: Application Services – An Overview

- What is SNS

- Creating a topic

- Create subscription

- Subscribed to the subscription

- SQS & SES

- Lambda and Elastic Beanstalk

- Module 18: AWS Troubleshooting

- Troubleshooting EC2 instance

- Troubleshooting using Cloud watch

- Troubleshooting using ELB

- Troubleshooting by using Cloud front

Module 19: AWS Architecture and Design

- Backup and Disaster Recovery

- How to manage Disaster Recovery and Backups

- Best Practice for DR and Backups

- AWS High Availability Design

Module 20: DevOps Fundamentals

- An understanding of DevOps and the modern DevOps toolsets

- The ability to automate all aspects of a modern code delivery and deployment

  pipeline using:

  o Source code management tools – CVS, Git

  o Build tools – Apache ant, Maven

  o Test automation tools – JUnit

  o Continuous Integration Tools – Jenkins, Team city

  o Configuration management tools – Chef, Puppet, Ansible

Interested to learn? Contact Besant Technologies. You can also provide your details such us Name, Email & Mobile number to us through our website coordinators will contact you as soon as possible. Contact us to get a customized syllabus to hit your need.