

AWS Sysops -Admin Syllabus (Associate)

Duration: 40 Hours

CONTENT

Introduction to Cloud Computing
What is virtualization?
Amazon Web Services (AWS)
Introduction to AWS Elastic computing
Introduction to the AWS products
Regions and Availability Zones
Signing up for AWS
AWS Free usage tier
Introduction AWS management console

EC Instances

Understanding AMI
Launching your first AWS instance
On-demand Instance pricing
Reserved Instance pricing
Spot instance pricing
Setting up security
Security groups
Choosing the AMI
Creating a new AMI
Public and Private IP's

Deploying a new instance from the created AMI

Key Pairs
Elastic IP's
ELB(Elastic Load Balancer)

EBS(Elastic Block Storage)

- Create EBS volumes
- Delete EBS Volumes
- Attach and detach EBS volumes
- Mounting and unmounting EBS volume
- Creating and deleting snapshots
- Creating volumes from snapshots S(Simple Storage Service)

What is S

- RRS(Reduced Redundancy storage)
- S durability and redundancy
- S Buckets
- S Uploading Downloading
- S Permissions
- S Object Versioning
- S Lifecycle Policies

Glacier storage

- Route
- Creating zones
- Hosting a website
- Understanding routing policies
- Weighted simple and failover policies

CloudFront

- Use of cloudfront
- Creating a cloudfront distribution
- Hosting a website of cloudfront distribution
- Implementing restrictions
- Configuring origins and behaviors

Identity access management (IAM)

- Creating Users and Groups
- Applying policies
- Password Policy
- Roles

Amazon Virtual Private Cloud (VPC)

- What is VPC?
- VPC configuration
- VPC security
- Elastic IP's Inbound and outbound ACL's

Cloud Formation

- What is cloud formation?
- Deploying template
- Create Stack
- Delete Stack
- Monitoring the resources

Relational Database Service (RDS)

- Selecting the Database type
- Configuring the database
- Creating database
- Configuring backups
- Configuring the maintenance windows

Connecting to the database

- Dynamo DB
- Creating a dynamo db
- Configuring alarms
- Adding data manually

CloudWatch

- Cloudwatch dashboard
- Configuring Monitoring services
- Setting thresholds
- Configuring actions
- Creating a cloudwatch alarm
- Getting statistics for ec instances
- Monitoring other AWS services
- Configuring Notifications
- Integrating cloudwatch with Autoscaling

Autoscaling

- Boot straping
- Create a launch configuration
- Create an Auto Scaling group
- Create a policy for your Auto Scaling group
- Set up an auto-scaled, load-balanced Amazon EC application

Simple Notification Service (SNS)

- What is SNS
- Creating a topic
- Create subscription
- Subscribed to the subscription
- SQS
- SES
- Elastic Beanstalk
- Command line management.