

# AWS

## Course Content



### Getting started with Amazon cloud

- Creating accounts and analyzing the cost breakdown
- Evaluating Service Level Agreements (SLA)
- Console, command line tools and API

#### Overview of the architecture:

- EC2
- S3
- EBS
- Beanstalk
- RDS
- VPC
- CloudFront
- SimpleDB
- SQS
- CloudWatch

#### Achieving Agility with EC2:

##### Managing the EC2 infrastructure:

- Browsing Amazon Machine Images (AMI)
- Specifying security groups and key pairs

##### Provisioning resources:

- Evaluating Elastic Block Store (EBS) and instance store root devices
- Assigning elastic IP addresses
- Mapping instance types to computing needs

## **Implementing Durable and Reliable Storage:**

### Storing data in the cloud:

- Persisting off-instance storage with EBS volumes
- Creating backups with snapshots
- Achieving high durability with SimpleStorage Service
- Transmitting data in/out of the Amazon cloud

### Simplifying the database infrastructure:

- Achieving high availability of nonrelational data with SimpleDB
- Effortlessly implement a relational database with Relational Database Service (RDS)

### Creating cost-effective distributed solutions:

- Decoupling applications with Simple Queue Service
- Leveraging CloudFront for high-performance edge cache content delivery
- Delivering static and streaming content

## **Adapting EC2 to Your Business Needs:**

### Customizing virtual machines:

- Modifying existing images
- Creating new images off of running instances
- Converting an instance store AMI to an EBS A

### Creating an AWS cloud architecture:

- Applying best practices for a cloud solution
- Selecting a cloud setup for different use case scenarios

## **Handling Dynamic Resource Requirements:**

### Monitoring from inside or outside of the cloud:

- Visualizing utilization metrics with CloudWatch
- Setting alarms to send and receive notifications

### Transparently scaling to meet load variations:

- Distributing incoming traffic with elastic load balancing
- Dynamically adding and removing instances with Auto Scaling
- Setting capacity thresholds

## Hosting Applications with Elastic Beanstalk:

Managing application environments:

- Customizing and configuring platform stacks
- Provisioning application resources with CloudFormation

## AWS Security Features:

Controlling account security:

- Configuring access credentials
- Managing users with Identity Access Management (IAM)

Leveraging the Virtual Private Cloud (VPC):

- Provisioning isolated AWS resources
- Bridging EC2 instances to your internal network with a VPN
- Launching EC2 instances on dedicated hardware



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