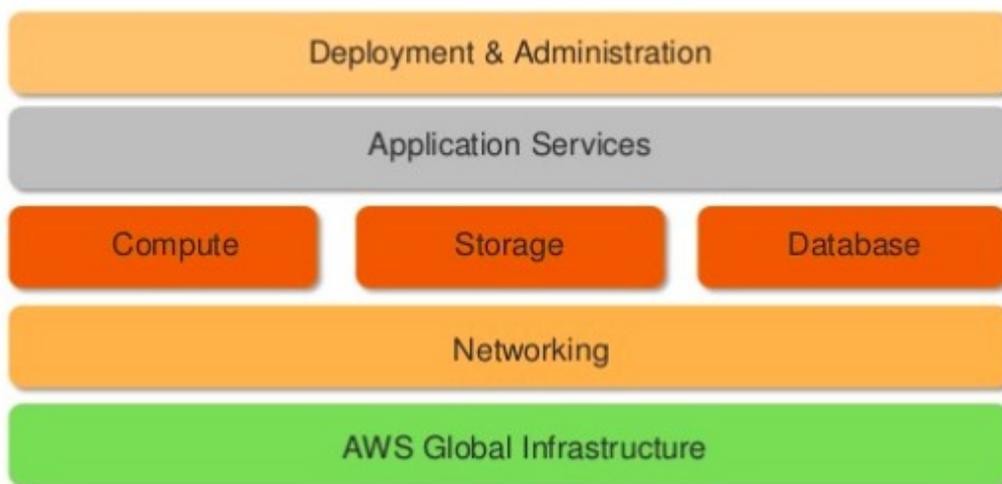


Amazon Web Services Course

Why?



What is Amazon Web Services?



How ?

- 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 Amazon S3 bucket
- Recognize AWS Compute and Networking options and use EC2 and EBS
- Describe Managed Services and Database options
- Use Amazon Relational Database Service (RDS) to launch an application
- Identify Deployment and Management options

Course Content

Overview of Cloud Computing and Cloud Providers

- Basic Concepts of Cloud Computing
- History and Evolution of AWS
- Overview of AWS Products and Services

Security IAM

- Identity and Access Management Overview
- IAM Policies
- IAM Users
- IAM Groups
- IAM Roles

Networking

- Amazon VPC
- IP Addresses
- Subnets
- Internet Gateway
- Route Tables
- NAT Devices
- Security Groups
- Network ACL's
- VPC Best Practices

AWS Elastic Cloud Compute- EC2

- Amazon EC2 Overview
- Amazon Machine Images (AMI)
- EC2 Instance Types
- Amazon Elastic Block Store (EBS)
- EBS Snapshots
- EC2 Instance Pricing
- Placement Groups
- Elastic Load Balancing (ELB)

Amazon S3 Overview

- S3 Buckets
- Version Control
- Amazon S3 Lifecycle Management
- CloudFront and CDNs
- Security and Encryption
- Import/Export & Snowball
- Amazon S3 Best Practices
- Amazon S3 Costs

Route53

- Amazon Route 53 Overview
- Amazon Route 53 and DNS
- Route 53 Routing Policies
- Route 53 best practices
- Route 53 costs and prices

Databases

- Databases Overview
- AMI Databases
- Amazon DynamoDB
- Amazon Redshift
- Amazon ElastiCache
- AWS RDS
- AWS Database Migration Services (DMS)

Application Services

- Simple Queue Service-SQS
- Simple Workflow Service-SWF
- Simple Notification Service-SNS

Disaster Recovery

Overview of Disaster Recovery

Using AWS products for Disaster Recovery

Practice Assignment: Disaster Recovery

Monitoring and Metrics

Overview of Cloud Monitoring

CloudWatch: key concepts

CloudWatch: Logs

AWS CloudTrail overview

Cloudwatch metrics

CloudWatch Log analysis

Cloudtrail logs

Deployment and Provisioning

Cloud Deployments Overview

Deployment with Auto Scaling

Blue / Green Deployment

Version Updates with Auto Scaling

Overview of the technologies for automated deployment

CloudFormation: Creating Base templates

Provisioning instance with CloudFormation