

# Amazon Web Services

35 Days

## **AWS Concepts**

AWS Architecture and Terminology  
Compute and Networking Services  
Storage and Content Delivery Services  
Database Services  
Analytics Services  
App Services  
Deployment Services  
Management Services

## **Amazon IAM (Identity And Access Management)**

IAM Essentials  
IAM Best Practices For New Accounts  
API Keys And Roles  
IAM Policies  
Log IAM Events With CloudTrail

## **Amazon S3 (Simple Storage Service)**

AWS S3 Essentials  
Getting Started  
S3 Permissions  
S3 Bucket/Object Versioning And LifeCycle Policies  
Website Hosting With S3

## **Amazon EC2 (Elastic Compute Cloud)**

EC2 Essentials  
Understanding Reserved Instances  
Selecting And Building EC2 Instances  
EBS Volumes And Snapshots  
Working With Public And Private IP Addresses  
Cloud-init Userdata And Metadata  
Security Groups  
CloudWatch And EC2  
EC2 Placement Groups  
Serving Traffic To Private Web Servers

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## Amazon RDS (Relational Database Service)

RDS Essentials

Working With RDS

Subnet Groups

RDS Security Groups And Connecting To RDS From EC2

## Amazon VPC (Virtual Private Cloud) And Networking

Introduction To VPC And AWS Networking

Building A VPC From Scratch

VPC Networking

VPC Security

Configuring A NAT Instance

Extending The VPC To On-Premise Networks

VPC Peering

## High Availability And Fault Tolerant Tools With EC2

Working With Amazon Machine Images (AMI's)

ELB With High Availability Hands On

Applying Auto Scaling And ELB To Create High Availability And Fault Tolerance

## AWS Direct Connect

Understanding AWS Direct Connect

## Amazon Kinesis

Learning Amazon Kinesis

IOT Kinesis Example

## Amazon Cloudfront

CloudFront Essentials

Architecting Applications With CloudFront

Performance Considerations With CloudFront

## Route 53

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Route53 and DNS Failover

Latency Based Routing

Weighted Routing Policies In Route53

## **Amazon SNS (Simple Notification Service)**

SNS Essentials

Amazon SQS (Simple Queue Service)

SQS Essentials

Using SQS To Build Decoupled Application Architectures

## **Amazon SWF (Simple Work Flow Service)**

SWF Essentials

## **Amazon EMR (Elastic Map Reduce)**

EMR Essentials

## **Amazon Elastic Beanstalk**

Elastic Beanstalk Essentials

Getting Started With Elastic Beanstalk

Amazon CloudFormation

CloudFormation Essentials

Building An S3 Bucket With CloudFormation

## **AWS Command Line Interface (AWS CLI)**

About The CLI And Getting Setup

AW CLI: Working With EC2

AW CLI: Working With S3

## **Designing highly available, cost efficient, fault tolerant, scalable systems Implementation/Deployment**

How To Design Cloud Services & Best Practices

Monitoring

Architectural Trade-Off Decisions

Elasticity And Scalability

## **Data Security**

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Security Architecture with AWS

Shared Security Responsibility Model And Attributes

AWS Platform Compliance And Security Services

Incorporating Common Conventional Security Products

DDoS Mitigation

Encryption solutions

Complex Access Controls

Amazon CloudWatch For The Security Architect

CloudHSM

## **Recognize critical disaster recovery techniques and their implementation Disaster Recovery Troubleshooting**

EC2 Troubleshooting Scenarios

VPC Troubleshooting Scenarios

ELB Troubleshooting Scenarios

Auto Scaling Troubleshooting Scenarios