



AWS Cloud Computing



dridhOn

Course Overview:

dridhOn AWS certification program will teach you how to use 50+ cloud computing services to learn basic to advanced topics like Elastic Cloud Compute, Simple Storage Service, VPC, Aurora database service, Load Balancing, Auto Scaling, application, and deployment. This AWS certification program focuses on current, in-demand AWS techniques, giving participants a competitive advantage in the industry. AWS certification training, as well as hands-on projects and case studies to ensure that you are Industry ready upon completion of the course.

Training Features:

- 8X higher interaction in live online classes conducted by industry experts
- 48 Hrs. live Classes of RPA Developer with Interview Preparation
- 3 real-time industry projects with hands-on preparation
- Unlimited Interview Opportunities with Placement Support
- Industry-recognized course completion certificate

Delivery Mode:

- Online Live Virtual Instructor Led Training

Target Audience:

- The Basic Requirement to start a career as an AWS Cloud Engineer, you'll need a Bachelor's degree or at least 1+ years of experience in Information Technology (IT). A Bachelor's degree in Technology justice will help you get the job.

Key Learning Outcomes:

By the end of this AWS online training course, you will be able to:

- Cloud Computing
- EC2 Concepts
- EBS Amazon
- ELB
- Simple storage Service
- IAM
- RDC
- VPC
- Auto Scaling
- Amazon Cloud Front
- Route 53
- Application Services

Certification Details:

- Complete at least 85 percent of the course or attend one complete batch
- Successful completion and evaluation of the project



CHAPTER 1:INTRODUCTION

- Introduction to the cloud
- Getting started what all you need
- The exam blue print discussion

CHAPTER 2:CLOUD COMPUTING

- Introduction to Cloud Computing
- Why Cloud Computing?
- Benefits of Cloud Computing
- Types of Cloud Computing
- Public Cloud
- Private Cloud
- Hybrid Cloud
- Community Cloud
- Software as a Service
- Platform as a Service
- Horizontal vs vertical scaling
- Cloud Computing Issues
- Security
- Costing Model

CHAPTER 3:INTRODUCTION TO AWS

- Signing up for AWS
- AWS Free usage tier
- Introduction AWS management console
- Regions and Availability Zones – How to choose the right one
- AWS Marketplace

CHAPTER 4 : EC2 – ELASTIC CLOUD COMPUTE

- EC2 concepts
- Amazon Machine Images (AMI)
- Security groups
- Public and Private IP's
- Key Pairs
- Elastic IP's
- Instance Types
- Finding the right AMI
- Launching an instance – How to choose the right instance type

CHAPTER 5 : AMAZON ELASTIC BLOCK STORE – EBS

- Create and Delete EBS volumes
- Attach and detach EBS volumes
- Mounting and unmounting EBS volume
- Creating and deleting snapshots
- Creating volumes from snapshots S3(Simple Storage Service)
- Upgrading EBS volume types



CHAPTER 6 : SIMPLE STORAGE SERVICE

- Introduction to S3
- Creating and deleting buckets
- Adding objects to buckets
- Permissions
- Object Versioning
- Lifecycle Policies
- Durability and redundancy
- Security and Encryption
- Cross Region Replication
- Storage Gateway
- Import Export
- S3 Transfer Acceleration
- Glacier storage
- Snowball
- Create a static website using S3

CHAPTER 7 : CLOUD WATCH

- Monitoring the AWS Service Health Dashboard
- Using Cloud watch for Monitoring
- Setting up your metrics
- Setting up notifications
- Creating Alarms/ Events

CHAPTER 8 : ELASTIC LOAD BALANCER (ELB).

- Components and types of load balancing
- Health Checks
- Load Balancing with EC2

CHAPTER 9 : IDENTITY AND ACCESS MANAGEMENT (IAM).

- Creating Users and Groups
- Applying policies
- Password Policy
- Roles
- Creating a Billing alarm

CHAPTER 10 : RELATIONAL DATABASE SERVICE (RDS).

- Selecting the Engine
- Configuring the Database Engine
- Setting up automatic backups
- Multi Availability Zone
- Read Replicas
- Authorizing access to the DB via DB Security Groups
- Dynamo DB
- Redshift
- Elastic Cache
- Aurora DB



CHAPTER 11 : VIRTUAL PRIVATE CLOUD (VPC)

- Introduction to Amazon Virtual Private Cloud (VPC)
- VPC Advantages
- Default and Non-default VPC
- Components of VPC
- Direct Connect
- Describe, create, and manage Amazon Virtual Private Cloud
- Amazon VPC, Private Subnet, and Public Subnet
- AWS Networking, Security Groups, and Network ACLs
- NAT
- Internet Gateway

CHAPTER 12 : AUTOSCALING

- Get Started with Auto Scaling Using the Console
- Maintain a Fixed Number of Running EC2 Instances
- Dynamic Scaling
- The lifecycle of autoscaling
- Policies of autoscaling
- EC2 Placement group

CHAPTER 13 : AMAZON CLOUD FRONT

- How Cloud Front Delivers Content
- Locations and IP Address Ranges of Cloud Front Edge Servers
- Working with Distributions
- Working with Objects

CHAPTER 14 : ROUTE 53

- Registering Domain Names
- Configuring Amazon Route 53 as Your DNS Service
- Working with Public/Private Hosted Zones
- Working with Resource Record Sets
- Understanding routing policie
- Using Traffic Flow to Route DNS Traffic
- Health Checks and DNS Failover

CHAPTER 15: APPLICATION SERVICES

- SQS – Simple Queue Service
- SWF – Simple Workflow Service
- SNS – Simple Notification Service
- API Gateway
- Kinesis
- Lambda



CHAPTER 16 : PROJECT - THE REAL WORLD - CREATING A FAULT TOLERANT WORD PRESS SITE

CASE STUDIES – WELL ARCHITECTED FRAMEWORK

- Introduction to well-architected framework
- Security
- Reliability
- Performance
- Cost

