

# AWS Course Syllabus 2018

## **Syllabus I : AWS Solution Architect Training** **40- 50 hours** (including Exam Preparation and Lab)

### *Section 1:*

#### **Fundamentals of Cloud Computing**

- Introduction to Cloud Computing
- Cloud Environment Architecture
- Cloud Computing Models

### *Section 2:*

#### **Infrastructure & Networking**

- Introduction to Amazon Web Services
- AWS Global Infrastructure
- Introduction to Network Switches & Virtual Private Cloud
- VPC & Subnets
- Internet Gateways, VPC Peering & NAT Gateways
- IP Addressing in AWS
- Understanding AWS Security Groups
- Launching our first EC2 instance
- EC2 instance types & Pricing Models



### *Section 3:*

#### **Storage**

- Introduction to Block & Object storage mechanism
- Introduction to Elastic Block Store - EBS
- EBS Snapshots
- EBS Volume Types
- Instance Store Volumes
- Introduction to Simple Storage Service (S3)
- Features of S3

### *Section 4:*

#### **Elastic Load Balancers -**

- Understanding High Availability Configuration
- ELB Configuration

#### **Elasticity**

- Auto Scaling

### *Section 5:*

#### **Identity & Access Management**

- Understanding the IAM Policies
- IAM User, IAM Policy and IAM Role

### *Section 6:*

#### **Relational Databases**

- Introduction to Relational Databases
- Creating our first database structure in MySQL
- Getting started with DynamoDB



*Section 7:*

**Domain Name System**

- Introduction to DNS
- Understanding DNS Records
- Introduction to Route53

*Section 8:*

**Aws Lambda and API**

- Getting started with AWS Lambda
- Introduction to API
- Understanding working of API
- Building our API with API Gateway

*Section 9:*

**Building Scalable Applications**

- Introduction to Message Brokers
- Understanding SQS
- Understanding Simple Notification Service (SNS)

*Section 10:*

**The DevOps Section**

*Section 11:*

**Monitoring -**

- Understanding CloudWatch
- Auditing AWS environment with CloudTrail

## Exam Preparation Guide

### **Syllabus II : AWS Fundamentals for System Administrators**

**15- 20 hours** ( Hands on Lab)

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- VPC & Subnets
- IP Addressing in AWS
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### *Section 3:*

#### **Storage**

- Introduction to Elastic Block Store - EBS
- EBS Snapshots
- EBS Volume Types
- Introduction to Simple Storage Service (S3)

### *Section 4:*

#### **Elastic Load Balancers**

- Understanding High Availability Configuration
- ELB Configuration
- Auto Scaling

### *Section 5:*

#### **Identity & Access Management**

- Understanding the IAM Policies
- IAM User, IAM Policy and IAM Role

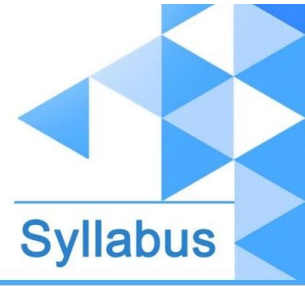
### *Section 6:*

#### **Relational Databases**

- Introduction to Relational Databases
- Creating our first database structure in MySQL



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