

AWS Syllabus 2018

Fundamentals of Cloud Computing

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

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

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

Elastic Load Balancers -

- Understanding High Availability Configuration
- ELB Configuration

Elasticity

- Auto Scaling

Identity & Access Management

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

Relational Databases

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

Domain Name System

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

Aws Lambda and API

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

Building Scalable Applications

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

The DevOps Section

Monitoring -

- Understanding CloudWatch
- Auditing AWS environment with CloudTrail

AWS Fundamentals for System Administrators

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