AWS

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-Intro to Cloud Computing

-Intro to Datacenters

-Intro to Cloud Models. IaaS, PaaS and SaaS.

-Intro to Amazon Web Services.

-Intro to AWS Management Console

NETWORKING IN AWS

-Intro to AWS VPC

-VPC Elements (VPC, Subnets, Internet Gateway,
  Routing Table, Routes)

-Creating your first VPC in AWS Management Console

-Create VPC in AWS CLI and Cloud Shell

-Inter VPC Peering

-NAT Gateway

-Site-to-Site IPSec VPN

-Security Groups and Access Control Lists

Virtualization in AWS

-Introduction to EC2

-Create your Instance in EC2

-Placement Groups, Boot Scripts, Key Pairs, etc.

-Elastic Block Store volumes.

-EBS Snapshots

-AMI (Amazon Machine Image)

--Monitoring EC2 Instances with CloudWatch

-Configuring notification with Simple Notification
  Service (SNS)

-Configuring Identity with Identity Access
  Management (IAM)

-User Accounts, Groups, Custom Policies, Roles,
  MFA, Password Policies, etc.

-Configuring application high availability with
  Elastic Load Balancer (ELB)

-Configuring dynamic scaling with Auto
  Scaling Groups (ASG)

Database in AWS

-Understanding Relational Database in AWS (RDS)

-Implementing RDS Database instance in AWS

-Accessing RDS in AWS

-Understanding NoSQL Database in AWS

-Implementing and Configuring Dynamo DB in AWS

-Intro to AWS ElastiCache

Web Application hosting in AWS

-Intro to Web Applications Architecture

-Intro to Elastic Beanstalk (EBS)

-Hosting Web Application on Elastic Beanstalk

-Environment Cloning and URL Swapping

Introduction to Name Resolution in AWS

-Intro to DNS Name Resolution

-Intro to Route 53

-Domain registration

-Zone Hosting

-Creating Records in Zones

-Record Types

Intro to Storage in AWS

-Intro to Shared Storage
-Implementing Elastic File System (EFS)
-Mounting EFS Share on Linux Instances
-Intro to traditional Backups
-Intro to Glacier
-Creating Glacier Vault
-Backup and Restore data
-Intro to Object Storage
-Introduction to Simple Storage Service (S3)
-Create S3 bucket
-Upload file in S3 Bucket
-S3 Object Class
-Object URL
-S3 Versioning
-S3 Object Lock

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-S3 Public Access

-S3 Replication and Lifecycle Rules

-End user access to S3

-Application connectivity to S3

-CloudFront with S3

Containers in AWS

-Intro to Containers

-Intro to Docker

-Intro to Elastic Container Services (ECS)

-ECS Cluster, Task Definitions, Service and
 Load Balancer

-ECS with IAM, Data Volumes and Auto Scaling

-Intro to Image Repository

-Intro to Elastic Container Registry (ECR)

-Implementing ECR

-Intro to Fargate

Other AWS Services Over View

Intro to DevOps

AWS Well Architected Framework

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