

AWS CONTENT

**INTRODUCTION TO THE COURSE
INTRODUCTION & OVERVIEW 2018**

AWS – OVERVIEW

- **The History of AWS so far**
- **AIWS – Overview**
- **Sign up to AWS Free tier**

IDENTITY ACCESS MANAGEMENT (IAM)

- **IAM**
- **Create a Billing Alarm**

AWS OBJECT STORAGE AND CDN – S3, GLACIER AND CLOUD FRONT

- **S3**
- **Create an S3 Bucket**
- **Version Control**
- **Cross Region Replication**
- **Lifecycle Management & Glacier**
- **Cloud Front CDN Overview**
- **Create a Cloud Front CDN**
- **S3 – Security & Encryption**
- **Storage Gateway**
- **Snowball**
- **S3 Transfer Acceleration**
- **Create a Static Website Using S3**

EC2 – THE BACKBONE OF AWS

- **Ec2**
- **Launch an EC2 instance**
- **How to use Putty (Window Users only)**
- **Security Group Basics**
- **Upgrading EBS Volume Types – Lab**
- **Creating a Window EC2 Instance & RAID GROUP**
- **Create an AMI – Lab**
- **AMI's – EBS Root Volumes vs Instance Store**
- **Load Balancing Theory**
- **Load Balancers & Health Checks**
- **Cloud WatchEC2**
- **The AWS Command Line & EC2**
- **Using IAM roles with EC2**

EC2 – THE BACKBONE OF AWS

- **Using Bootstrap Scripts**
- **EC2 Instance Metadata**
- **Autoscaling**
- **EC2 Placement Groups**
- **EFS Concepts & Lab**
- **Lambda – Concepts**
- **Build a Serverless Webpage**

ROUTE53

- **A look at Route53 in details**
- **DNS**
- **Route 53 – Register A Domain Name**
- **Setup Our EC2 Instances**
- **Simple Routing Policy**
- **Weighted Routing Policy**
- **Latency Routing Policy**
- **Failover Routing Policy**
- **Geolocation Routing Policy**

DATABASES ON AWS

- **Databases**
- **Launching an RDS Instance**
- **RDS – Backups, Multi-AZ & Read Replicas**
- **DynamoDB**
- **Red Shift**
- **Elasticache**
- **Aurora**

VPC

- **Introduction & Overview**
- **Build Your Own Custom**
- **Network Address Transformation (NAT)**
- **Network Access Control Lists vs Security Groups**
- **Network Access Control Lists vs Security Group**
- **VPC Flow Logs**
- **NATs vs Bastions**
- **VPC End Points**
- **VPC Clean Up**

APPLICATION SERVICES

- **SQS**
- **SWF**
- **SNS**
- **Elastic Transcoder**
- **API Transcoder**
- **Kinesis**

