



AWS Big Data Analytics

Description:

This course will help you to get started with the fundamentals of Big Data in AWS Cloud and using other services for data analysis.

Start Date:

Doubt Clear Time:

Course Time:

Features:

- # Course material
- # Course resources
- # On demand recorded videos
- # Practical exercises
- # Quizzes
- # Assignments

Course completion certificate

What we learn:

Introduction

Collection

Storage

Processing

Analysis

Visualization

Kinesis Scaling

SQS Overview

Direct Connect

S3 Overview

DynamoDB Overview

Lambda Overview

Hdfs vs S3

Requirements:

System with Internet Connection

Interest to learn

Dedication

Instructor:

Name:

MD Imran

Description:

Working as Data Scientist with experience in solving real world

business problems across different domains.

>Introduction:

- >>Course Overview

- >>Introducing our Hands-On Case Study

>Section 1 : Collection:

- >>Collection Section Introduction

- >>Collection

- >>Kinesis Data Streams Overview

- >>Hot shard

- >>Kinesis Producers

- >>Kinesis Consumers

- >>Kinesis Enhanced Fan Out

- >>Kinesis Scaling

- >>Kinesis - Handling Duplicate Records part 1

- >>Kinesis - Handling Duplicate Records part 2

- >>Kinesis Security

- >>Kinesis Data Firehose

- >>CloudWatch Subscription Filters with Kinesis

- >>[Exercise] Kinesis Firehose, Part 1

- >>[Exercise] Kinesis Firehose, Part 2

- >>[Exercise] Kinesis Firehose, Part 3

- >>[Exercise] Kinesis Data Streams

- >>SQS Hands On
- >>SQS Overview
- >>Kinesis Data Streams vs SQS
- >>IoT Overview
- >>IoT Components Deep Dive
- >>Database Migration Service (DMS)
- >>Direct Connect
- >>AWS Snow Family Overview
- >>AWS Snow Family Hands On
- >>MSK Managed Streaming for Apache Kafka
- >>Kinesis vs MSK

>Section 2 : Storage:

- >>S3 Overview
- >>S3 Hands On
- >>S3 Security Bucket Policy
- >>S3 Security Bucket Policy Hands On
- >>S3 Website Overview
- >>S3 Website Hands On
- >>S3 Overview
- >>S3 Versioning Hands On
- >>S3 Server Access Logging
- >>S3 Server Access Logging Hands On
- >>S3 Replication Overview

- >>S3 Replication Hands On
- >>S3 Storage Classes Overview
- >>S3 Storage Classes Hands On
- >>S3 Glacier Vault Lock & S3 Object Lock
- >>S3 Encryption
- >>Shared Responsibility Model for S3
- >>DynamoDB Overview
- >>DynamoDB RCU & WCU
- >>DynamoDB Partitions
- >>dynamodb api
- >>DynamoDB Indexes LSI & GSI
- >>DynamoDB DAX
- >>DynamoDB Streams
- >>DynamoDB TTL part 1
- >>DynamoDB TTL part 2
- >>DynamoDB Security
- >>DynamoDB Storing Large Objects
- >>[Exercise] DynamoDB

>Section 3 : Processing:

- >>Section Introduction Processing
- >>Lambda Overview
- >>Lambda Hands On
- >>[Exercise] AWS Lambda

- >>Why Cloud & Big Data on Cloud
- >>What is Virtual Machine
- >>On-Premise vs Cloud Setup
- >>Major Vendors of Hadoop Distribution
- >>Hdfs vs S3
- >>Important Instances in AWS
- >>Spark Basics
- >>Why spark is difficult
- >>Overview of EMR part 1
- >>Overview of EMR part 2
- >>What is EMR
- >>Tez vs mapreduce
- >>Launching an emr cluster
- >>connecting to your cluster
- >>Create a tunnel for web ui
- >>Use Hue to interact with EMR
- >>Part 1 analyze movie ratings with hive on emr
- >>Part 2 analyze movie ratings with hive on emr
- >>Transient vs Long Running Cluster Running
- >>Copy File From S3 to Local Zeppelin Notebook
- >>How to Create a VM
- >>S3 & EBS
- >>Public ip Vs Private Ip
- >>Aws Command Line Interface

- >>AWS Glue
- >>Introduction to Amazon Redshift
- >>Redshift Master Slave Architecture
- >>Redshift demo
- >>redshift specturm
- >>Redshift Distribution Styles
- >>Redshift Fault Tolerance
- >>Redshift Sort Keys
- >>[Exercise] Elastic MapReduce, Part 1
- >>[Exercise] Elastic MapReduce, Part 2

>Section 4 : Analysis:

- >>Section Introduction Analysis
- >>Intro to Kinesis Analytics
- >>Kinesis Analytics Costs RANDOM_CUT_FOREST
- >>[Exercise] Kinesis Analytics, Part 1
- >>[Exercise] Kinesis Analytics, Part 2
- >>Kinesis Analytics, Part 3
- >>Kinesis Firehose, Part 4
- >>Intro to Opensearch (formerly Elasticsearch)
- >>Amazon Opensearch Service
- >>Opensearch Features
- >>[Exercise] Amazon Opensearch Service
- >>What is Athena

>>When do we require Athena What problem Athena Solve How Athena Works

>>Athena Pricing

>>Athena Practical Demonstration

>>[Exercise] AWS Glue and Athena

>>[Exercise] Redshift Spectrum, Pt 1

>>[Exercise] Redshift Spectrum, Pt 2

>>[Exercise] Redshift Spectrum, Pt 3

>>**Section 6 : Visualization:**

>>The course overview

>>Big data analytics and aws

>>How Quicksight is different than other BI Tools

>>BI solution based on quicksight

>>how to get started with quicksight

>>Performance Your first analysis

>>AWS Big data ecosystem

>>importing files to quicksight

>>importing databases to quicksight part 1

>>importing databases to quicksight part 2

>>importing data from saas services to quicksight

>>edit existing data sources in quicksight

>>Joining datasets

>>using functions part 1

>>using functions part 2

>>applying filters

>>understanding spice layer

>>Creating a Quicksight Analysis

>>Explore various charting options

>>Exploring various Map options

>>Exploring various table and other visual options

>>Mini project Overview

>>Mini Project Architecture

>>Data ingestion for mini project

>>Reports and dashboards