



COMMUNITY DAY

PUNE 2022 ---









Modernize Data Pipelines

Chetan Hirapara | 10th Dec 2022



Chetan Hirapara

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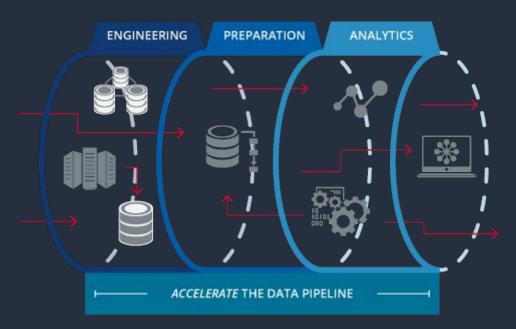
Agenda

- Introduction of Data pipeline
- EMR Vs EMR Serverless
- Delta Lake on AWS
- Glue
- Amazon Managed Workflows for Apache Airflow (MWAA)
- Demo





Data pipeline in nutshell

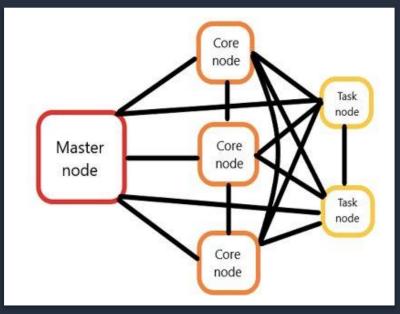






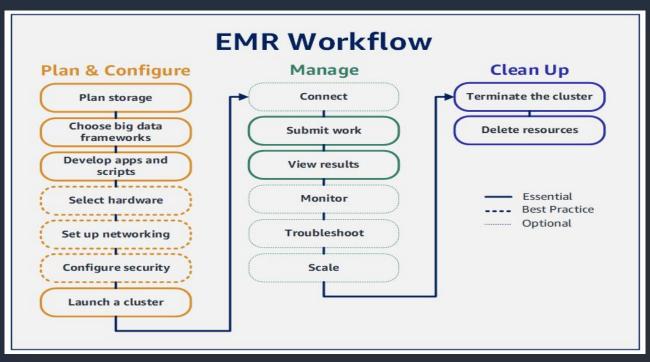
- Fully managed Hadoop cluster in AWS to store, process and analyze big data systems
- Map + Reduce
- HDFS / EMRFS / Local File system(Instance store/EBS)
- Supported Software's
- Spark, Hive, HBase, Hue, Pig, JupyterLab, etc.







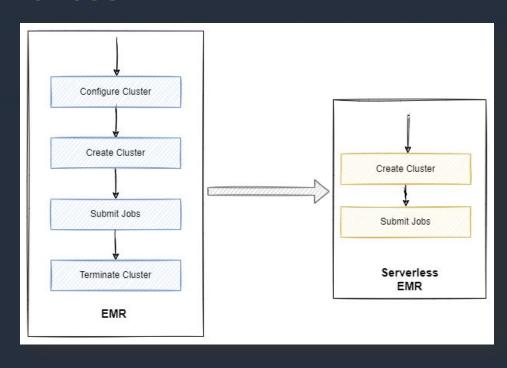








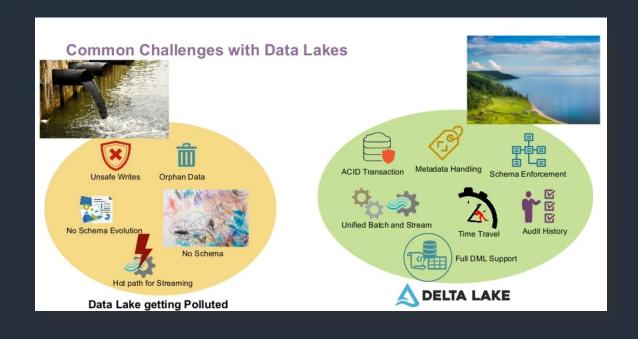
EMR Vs Serverless EMR







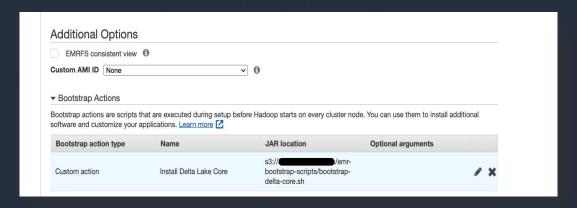
Delta Lake features







Setup Delta Lake on EMR

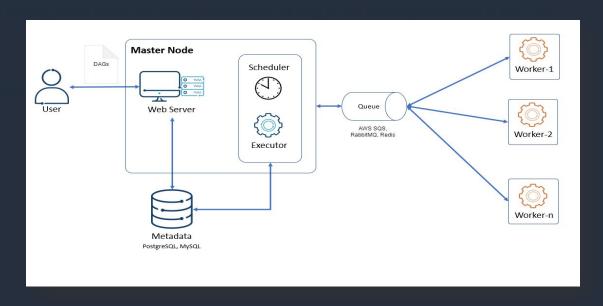


#!/bin/bash
sudo aws s3 cp s3://mys3bucket-delta-lake-poc/emr-bootstrapscripts/jars/delta-core_2.12-0.8.0.jar /usr/lib/spark/jars/





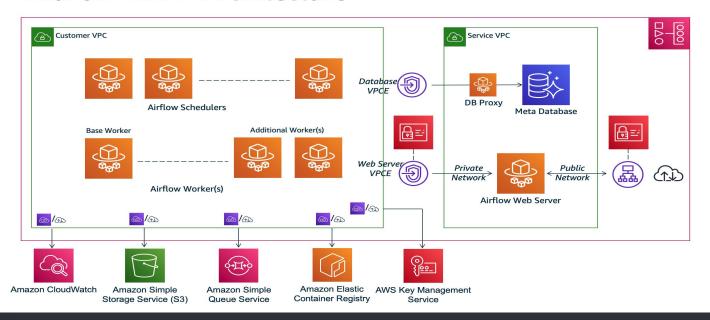
Introduction of Airflow





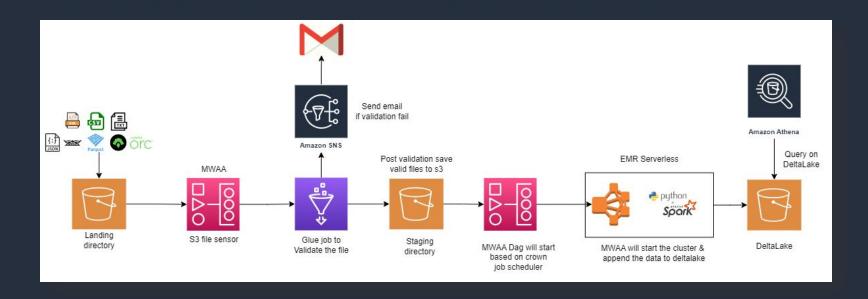


Amazon MWAA Architecture





Demo Use case











QUESTIONS?

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Thank you!

See you at the AWS Community Day Pune 2023







- Data Lake on AWS EMR
- Building AWS Glue job using pyspark
- Github Delta tables with Amazon EMR
- https://docs.delta.io/latest/guick-start.html
- Incremental Data processing using Delta lake with EMR

