18-08-2023

NMI ConsUMPTION – Data Pipeline – Technical Approach

# Pre-requisites

## AWS Account creation

## S3 buckets

## IAM Roles/Policies

## AWS CLI

## CloudWatch

## SNS topic

## Python setup

### boto3 for aws cdk

### pandas

### requirements.txt

# LIST OF Activities

## Input Data validation

### Check for consumption data for each NMI.

### Check for uniform sampling.

### Check for any outliers in the data.

### Filter outliers and forward the sampling.

## Event based triggers to run AWS Lambda function.

## Data transformation using Python.

## Monitoring and Telemetry

## Orchestration

### Leveraging step functions to orchestrate

## Unit Testing

### Generate fig events and mock the AWS services.