Quick Docs - Deploy Apache Kafka AMI Node

Summary

This **quick doc** provides a quick deployment overview of the CYLLiX Kafka AMI, so that customers can get an idea of pre-requisites and what components are installed.

Installation

The AMI contains a Apache Kafka 3.8.0 node. At this point, Apache Kafka 3.9.0 is available, but it is our poilcy to stay one release behind unless there are critical updates required.

- Prerequisites

    - VPC

    - Subnet (Private/Public)

    - Security Group providing access to the required ports as follows from an ingress CIDR range

        - 9092 - Kafka-Broker/Kafka-Service (All Apache Kafka AMIs)

        - 8083 - Kafka-Connect-distributed (All Apache Kafka AMIs)

        - 2181 – Zookeeper - Set this for Apache Kafka Zookeeper Installs

        - 9093 - KRaft Controller – Set this for Apache Kafka KRaft Installs

        - 9100, 30000 - 30020 (Node-Exporter & JMX Ports) - for all Apache Kafka AMIs

    - DNS Access as required to the node

- What is Created/Installed:

    - A single JMX Enabled Apache Kafka 3.8.0 Node:

        - Zookeeper Node.   : *Zookeeper, Kafka Server (Broker) and Kafka Connect (Connect-Distributed), Node-exporter*

        - KRaft Node   : *KRaft Controller, Kafka Server (Broker) and Kafka Connect (Connect-Distributed), Node-exporter*

- Cost

- o The CYLLiX subscription costs as indicated on Marketplace. To maximize benefits, deploy as a Cluster - Please contact CYLLiX support

- o AWS Costs - Please use the *Create estimate from the AWS Pricing Calculator* - *https://calculator.aws/#/*

- How to Deploy

  - o Using the AWS Console, EC2 -> Launch instance - follow the prompts

    - For the Instance type, select an ARM instance t4g.large or better(*AWS Instance pricing will be included on top of the CYLLiX AMI Pricing)*

    - For the *User data* section, please specify the following

      - #!/bin/bash

      - hostnamectl set-hostname *putHostFQDNhere*

Post Installation

Test Reachability and Functionality and troubleshoot as needed. If you need further assistance, please contact our Support

Support

For support on the CYLLiX AMI or more detailed documentation, please register or login (if you have an active registration) at https://www.cyllix.io/customer-portal

For documentation on Apache Kafka please see https://kafka.apache.org/documentation/