





a on Ubuntu 20.04

Integration platform for devs

The easiest way for developers to connect their stack and automate workflows.

Pipedream.com

stall Apache Kafka on Ubuntu 20.04

LTS or any Cloud Instance like Amazon EC2, Azure VM, Google Compute Engine, etc. with preinstalled Ubuntu.

Table of Contents



Introduction

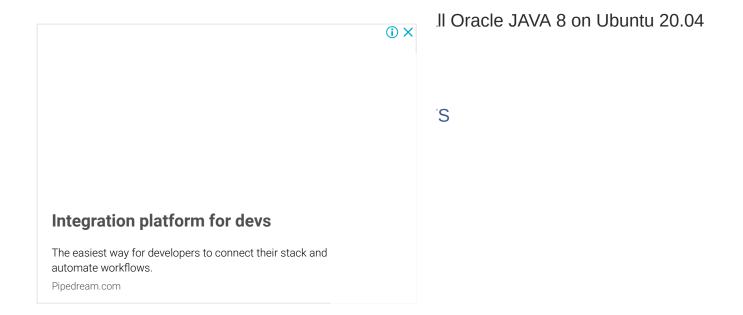
Kafka is most popular open source software which provides a framework for storing, reading and analyzing steaming data. To know more about Kafka visit official documentation page.

Prerequisites

- Ubuntu 20.04 with Minimal Installation
- SSH Access with Sudo previleges
- Firewall Ports: 2181,9092
- JDK 1.8 or higher version

^

Install JDK on Ubuntu



```
$ sudo apt install openjdk-8-jdk
```

\$ sudo apt install openjdk-11-jdk

To check the java version, Here i have install installed Oracle Java 8 on my system.

```
$ java -version
```

Output:

```
java version "1.8.0_251"

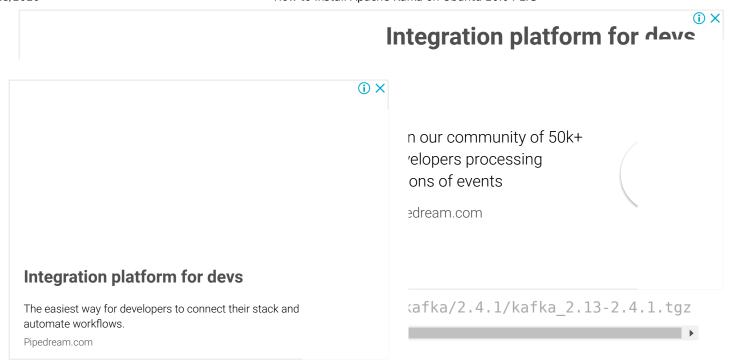
Java(TM) SE Runtime Environment (build 1.8.0_251-b07)

Java HotSpot(TM) 64-Bit Server VM (build 25.251-b07, mixed mode)
```

Step 1: How to Install Apache Kafka on Ubuntu 20.04 LTS

To download the binary from offical website. Please use this link to download and to prompts to download page.

/\



inow to un-tar the archive lile and move to another location:

```
$ sudo tar xzf kafka_2.13-2.4.1.tgz
```

\$ sudo mv kafka_2.13-2.4.1 /opt/kafka

Step 2: Creating zookeeper and Kafka Systemd Unit Files

Create the systemd unit file for zookeeper service

```
$ sudo nano /etc/systemd/system/zookeeper.service
```

paste the below lines

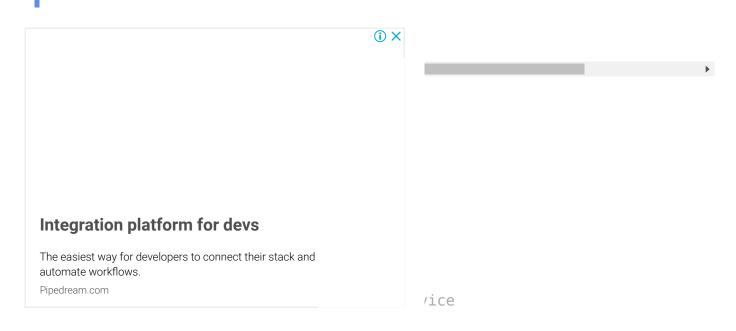
/etc/systemd/system/zookeeper.service

```
[Unit]
Description=Apache Zookeeper service
Documentation=http://zookeeper.apache.org
Requires=network.target remote-fs.target
After=network.target remote-fs.target
```

Type=simple

ExecStart=/opt/kafka/bin/zookeeper-server-start.sh /opt/kafka/config/zooke

ExecStop=/opt/kafka/bin/zookeeper-server-stop.sh
Restart=on-abnormal



paste the below lines

/etc/systemd/system/kafka.service

```
[Unit]
Description=Apache Kafka Service
Documentation=http://kafka.apache.org/documentation.html
Requires=zookeeper.service

[Service]
Type=simple
Environment="JAVA_HOME=/opt/jdk/jdk1.8.0_251"
ExecStart=/opt/kafka/bin/kafka-server-start.sh /opt/kafka/config/server.pr
ExecStop=/opt/kafka/bin/kafka-server-stop.sh

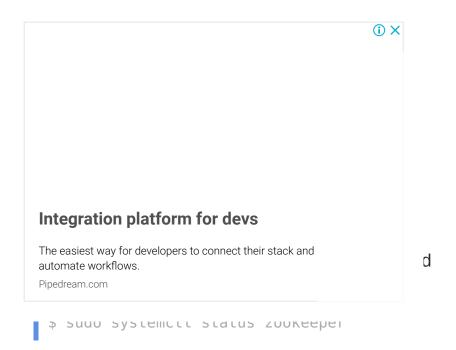
[Install]
WantedBy=multi-user.target
```

Note: Modify the value of **JAVA_HOME** value, If the path of your Java installation is different.

Reload the daemon to take effect

\$ sudo systemctl daemon-reload

Step 3: Start ZooKeeper and Kafka Service



Output:

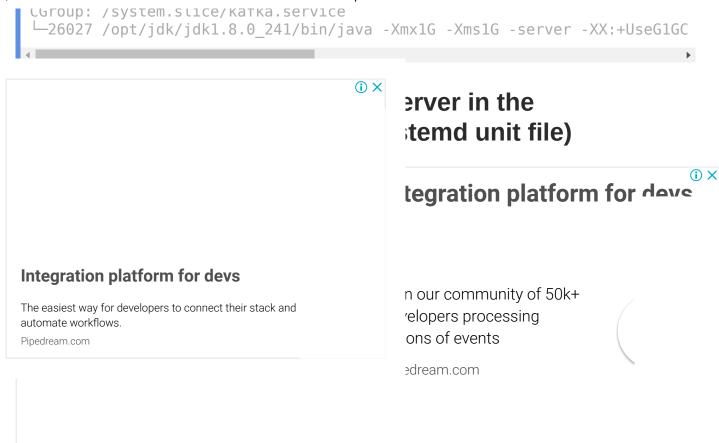
```
■ zookeeper.service - Apache Zookeeper service
Loaded: loaded (/etc/systemd/system/zookeeper.service; disabled; vendor pr
Active: active (running) since Sat 2020-06-11 09:52:40 UTC; 22min ago
Docs: http://zookeeper.apache.org
Main PID: 25638 (java)
Tasks: 30 (limit: 9513)
CGroup: /system.slice/zookeeper.service

L25638 java -Xmx512M -Xms512M -server -XX:+UseG1GC -XX:MaxGCPauseMillis=2
```

Check the status of kafka service if it started

```
$ sudo systemctl status kafka
```

Output:



We have shell script to run the kafka and zookeeper server in backend:

Create a file named kafkastart.sh and copy the below script:

```
#!/bin/bash
sudo nohup /opt/kafka/bin/zookeeper-server-start.sh -daemon /opt/kafka/con
sleep 5
sudo nohup /opt/kafka/bin/kafka-server-start.sh -daemon /opt/kafka/config/
```

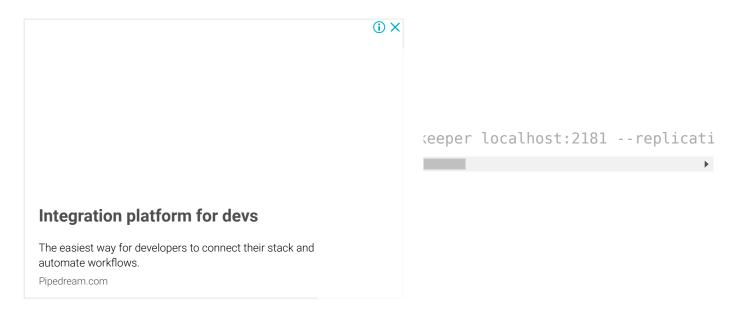
After give the executable permissions to the file:

```
sudo chmod +x kafkastart.sh
```

Successfully We have covered how to install apache kafka on ubuntu 20.04 LTS.

Step 4: Creating Topic in Kafka

Now we will create a topic named as "DevOps" with a single replication-factor and



To check the list of topics created.

```
$ sudo bin/kafka-topics.sh --list --zookeeper localhost:2181
```

Output:

Dev0ps

Step 5: To send some messages

To send some messages for created Topic.

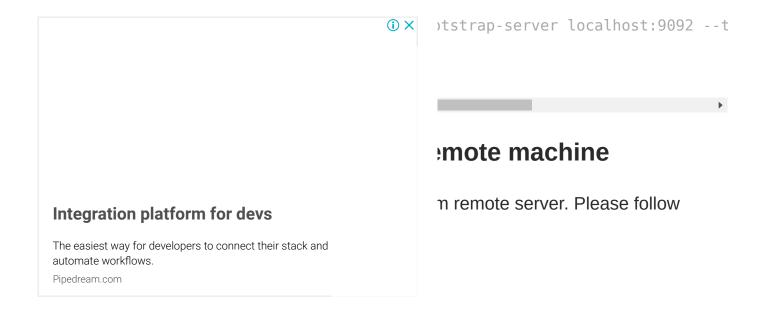
```
$ sudo bin/kafka-console-producer.sh --broker-list localhost:9092 --topic
```

its prompt for messages to type:

```
> Hi
> How are you?
```

Step 6: To Start consumer

Using below command we can see the list of messages:



cd /opt/kafka/config

Now look for server.properties and make some configuration changes:

sudo vi server.properties

In this properties file uncomment as mentioned below:

listeners=PLAINTEXT://:9092

advertised.listeners=PLAINTEXT://<HOST IP>:9092

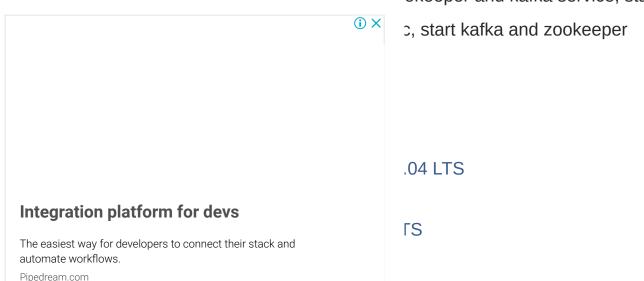
Step 8: To Delete any Topic

If you want to delete any created topic use below command:

\$ sudo bin/kafka-topics.sh --delete localhost:9092 --topic <anytopic>

Conclusion:

In this article, We have performed ,How to Install Apache Kafka on Ubuntu 20.04 LTS





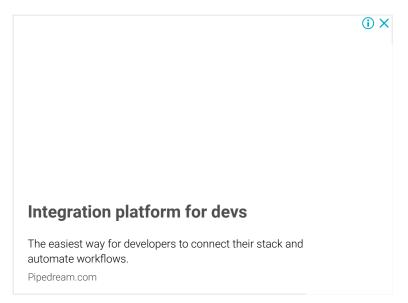
Sivasai Sagar

I am working as DevOps Engineer and having 5 years of Experience. Likes to share knowledge.

Leave a Comment

^

Name *



w your comment data is processed.



Recent Posts

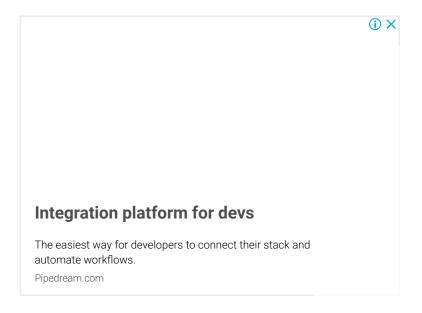
Shell Script to Build Docker Image [2 Steps]

4 Steps to Install Kubernetes Dashboard

Shell Script to Start MongoDB Service if Down [2 Steps]

9 Steps to Setup Kubernetes on AWS using KOPS

How to Install SonarQube on Ubuntu 20.04 LTS



About FOSS TechNix

FOSS TechNix (Free ,Open Source Softwares and Technology Nix*) is a community site where you can find How-to Guides, Articles,Tips and Tricks for DevOps Tools,Linux ,Databases,Clouds and Automation.

Site Links

About Us

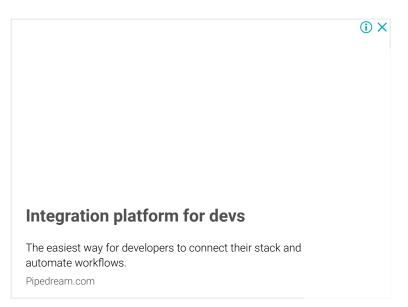
Privacy Policy

Contact Us

Terms and Conditions

Archives





ookies to improve your experience. By using this rivacy Policy