Quick Configure WSL_Ubuntu_Node-Red_Kafka_CMAK

Required PriorKnowledge:

Installing packages/apps in Ubuntu SSH Java Version

Catalog

| Prep | 2 |
|---|----|
| WSL2 on Windows | 2 |
| LXDE | 3 |
| Install On Ubuntu: | 3 |
| Launch on Windows | 3 |
| Ubuntu 20-04 | 4 |
| Node-Red V2.2.0 | 5 |
| Install | 5 |
| Kafka_2.13-3.0.0 | 5 |
| Install | 5 |
| CMAK-3.0.0.5 | 6 |
| Install | 6 |
| Working | 6 |
| Services | 6 |
| Configure Nodes | 7 |
| Create Kafka Topic | 9 |
| Create Topic on CMAC | 9 |
| Troubleshoot & Tips: | 10 |
| Port conflict: netstat | 10 |
| cmak- zkhost in application.conf | 10 |
| clear temp by rm -rf /tmp/kafka-logs /tmp/zookeeper | |
| | |

Prep

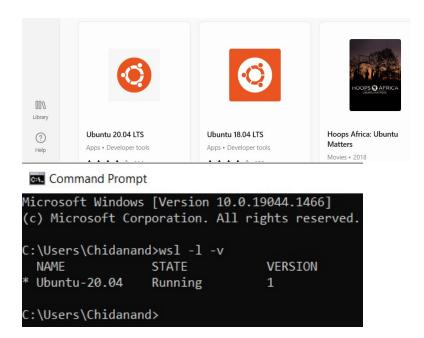
WSL2 on Windows

On CMD: wsl --install Ref. https://docs.microsoft.com/en-us/windows/wsl/install Windows Features X Turn Windows features on or off To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on. Simple TCPIP services (i.e. echo, daytime etc) Telnet Client TFTP Client ✓ | Virtual Machine Platform ■ Windows Hypervisor Platform Windows Identity Foundation 3.5 ■ Windows Projected File System Windows Subsystem for Linux Windows TIFF IFilter ✓ Work Folders Client

OK

Cancel

Install Ubuntu from MicrosoftStore Create Linux User



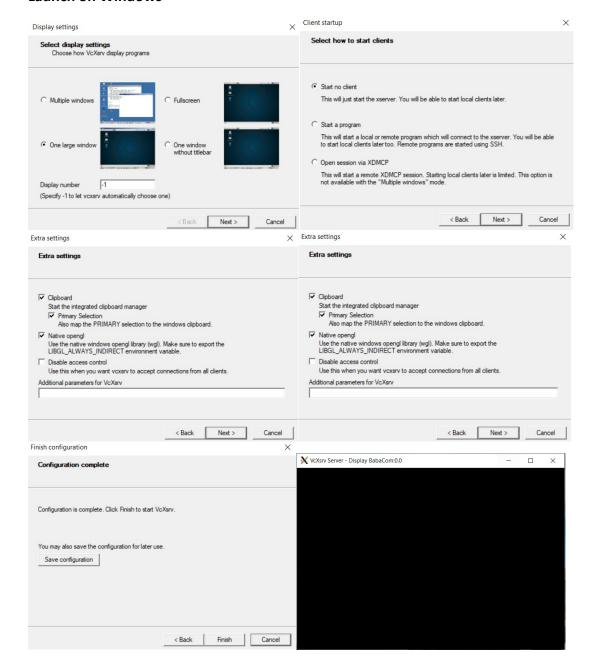
LXDE

Install On Ubuntu:

sudo apt-get install lxde

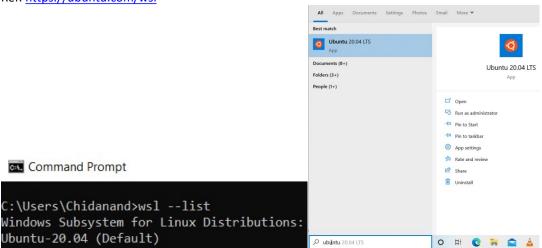
Ref: https://wiki.lxde.org/en/Installation

Launch on Windows



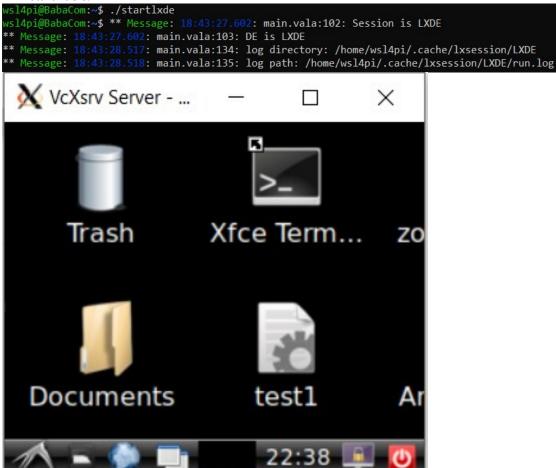
Ubuntu 20-04

Ref. https://ubuntu.com/wsl



Create a file "startlxde" in linux home with the content below:

export DISPLAY=:0 export LIBGL_ALWAYS_INDIRECT=1 startlxde &



Node-Red V2.2.0

Install

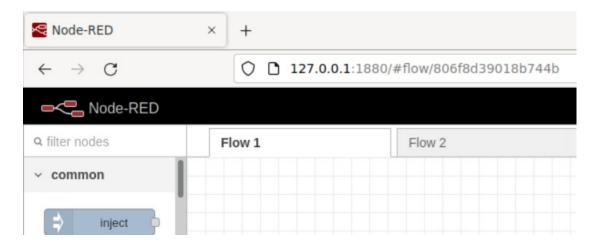
Ref.:-> https://nodered.org/

Npm:-> "sudo npm install -g --unsafe-perm node-red"

Node-Red:-> "sudo snap install node-red"

```
hadoop@BabaCom:~/kafka/bin$ node-red&
[1] 3729
hadoop@BabaCom:~/kafka/bin$ 2 Feb 20:33:59 - [info]
```

2 Feb 20:34:50 - [info] Server now running at http://127.0.0.1:1880/



Kafka_2.13-3.0.0

Install

Ref:-> https://kafka.apache.org/downloads

lava

```
hadoop@BabaCom:~$ java --version
openjdk 11.0.13 2021-10-19
OpenJDK Runtime Environment (build 11.0.13+8-Ubuntu-Oubuntu1.20.04)
OpenJDK 64-Bit Server VM (build 11.0.13+8-Ubuntu-Oubuntu1.20.04, mixed mode)
```

CMAK-3.0.0.5

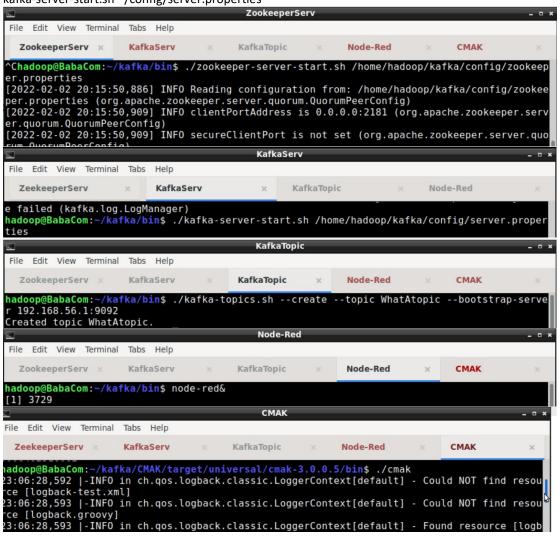
Install

git clone https://github.com/yahoo/CMAK.git nano CMAK/conf/application.conf cmak.zkhosts="localhost:2181" cd CMAK ./sbt clean dist cd target/universal unzip cmak-3.0.0.5.zip cd cmak-3.0.0.5 bin/cmak

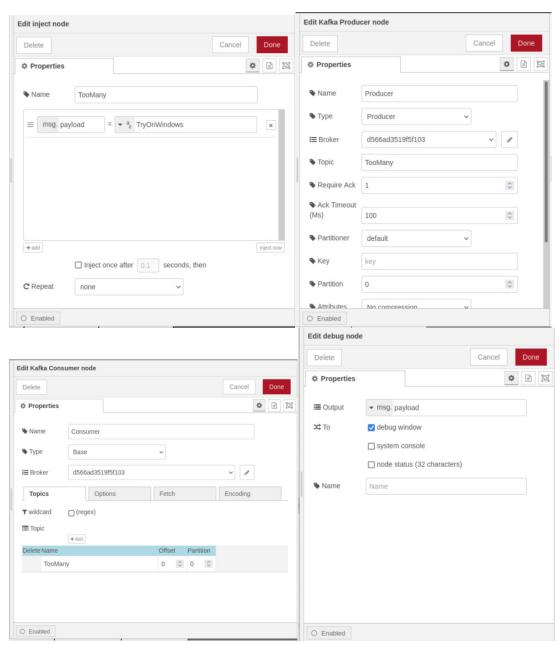
Working

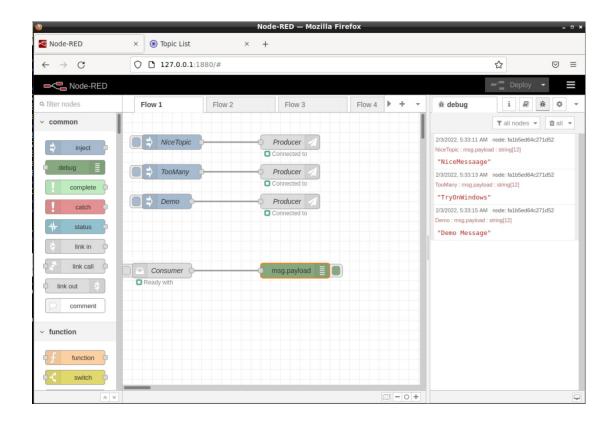
Services

zookeeper-server-start.sh ~/config/zookeeper.properties kafka-server-start.sh ~/config/server.properties

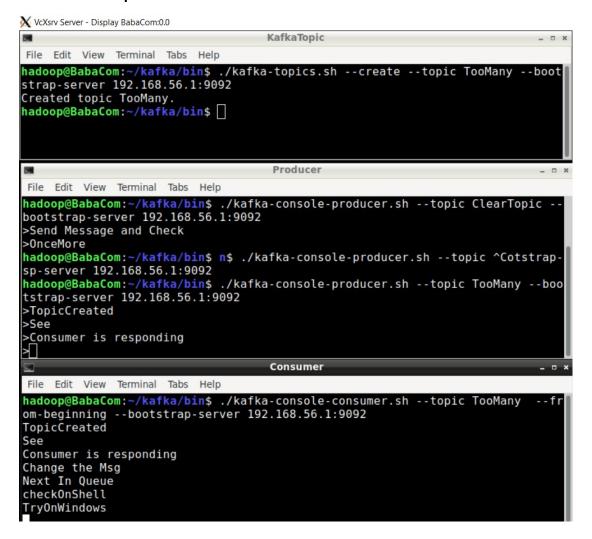


Configure Nodes

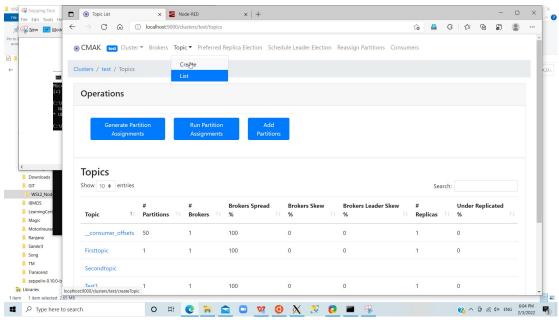




Create Kafka Topic



Create Topic on CMAC



Once the topic is created, Messages can be sent either from the CLI or Node



Troubleshoot & Tips:

Port conflict: netstat

cmak- zkhost in application.conf

```
# Settings prefixed with 'kafka-manager.' will be deprecated, use 'cmak.' instead.
# https://github.com/yahoo/CMAK/issues/713
#kafka-manager.zkhosts="kafka-manager-zookeeper:2181"
kafka-manager.zkhosts="192.168.56.1:2181"
kafka-manager.zkhosts=${?ZK_HOSTS}
#cmak.zkhosts="kafka-manager-zookeeper:2181"
cmak.zkhosts="localhost:2181"
cmak.zkhosts=${?ZK_HOSTS}
```

clear temp by rm -rf /tmp/kafka-logs /tmp/zookeeper