HBASE Installation

- Local Installation
- Pseudo-Distributed Local Install
- Distribution Install

HBase Installation-Local Installation

- download hbase, and put into server
- without HDFS(ignore HDFS first)
- config hbase-site.xml (/conf)
- run start hbase

sh bin/start-hbase.sh

stop hbase

sh bin/stop-hbase.sh

Local HBase Configuration:

HBase Basic Commands Journey

hbase shell

```
./bin/hbase shell
```

• Create Table

```
create 'test_table','test_cf'
```

List Table information

```
list 'test_table'
```

Describe Table information

```
describe 'test_table'
```

HBase Basic Data Manipulation

put data

```
put 'test_table','rowkey_1','test_cf:key1','value1'
put 'test_table','rowkey_1','test_cf:key1','value2'
```

• scan data

```
scan 'test_table'
```

• get data

```
get 'test_table','rowkey_1'
```

• disable table

```
disable 'test_table'
```

• drop table

```
drop 'test_table'
```

HBase Pseudo-Distributed Local Install

- Pseudo-Distributed Mode
 - HMaster
 - HRegionServer
 - Zookeeperrunning in separate process
- But hadoop and hdfs is needed

HBase Pseudo-Distibuted Local Install -HADOOP

hdfs-site.xml (etc/hadoop/)

```
<configuration>
    cproperty>
        <name>dfs.replication</name>
        <value>1</value>
    </property>
       cproperty>
        <name>dfs.namenode.name.dir</name>
        <value>/www/local/hadoop/tmp/dfs/name</value>
    </property>
    cproperty>
        <name>dfs.datanode.data.dir</name>
        <value>/www/local/hadoop/tmp/dfs/data</value>
    </property>
    cproperty>
        <name>dfs.permissions</name>
        <value>false</value>
    </property>
</configuration>
```

core-site.xml (etc/hadoop)

```
<configuration>
cproperty>
    <name>fs.defaultFS</name>
    <value>hdfs://bigdatafat027117.ppdgdslfat.com:9000</value>
</property>
 cproperty>
        <name>hadoop.tmp.dir</name>
        <value>/www/local/hadoop/tmp</value>
    </property>
</configuration>
```

/etc/hosts

10.114.27.117 bigdatafat027117.ppdgdslfat.com

start HADOOP - set up env

set env in ~/.bashrc or hadoop-env.sh

```
export PATH=$PATH:/www/hadoop-2.7.7/bin
export HADOOP_HOME=/www/hadoop-2.7.7
export HBASE_HOME=/www/hbase-2.1.0
export PATH=$PATH:$HBASE_HOME/bin
export JAVA_HOME=/usr/local/jdk1.8.0_74
```

```
source `/.bashrc
```

start HADOOP - Format NameNode

```
hdfs namenode -format
```

start HADOOP- Start

```
# don't start yarn
./sbin/start-dfs.sh # (don't use start-all)
```

Start HBase Pseudo-Distibuted

hbase-site.xml

make sure JAVA_HOME is set in hbase-config.sh

```
export JAVA_HOME='/usr/local/jdk1.8.0_74'
```

• run HBase

```
./bin/start-hbase.sh
```

Checkout java process

```
[root@bigdatafat027117 hbase-2.1.0] jps
11777 Jps
10387 HRegionServer
903 NameNode
1003 DataNode
10267 HMaster
1213 SecondaryNameNode
20510 Bootstrap
10206 HQuorumPeer
```

• enter hbase shell same as local mode