# 11.1 Configure Hadoop and start cluster services using Ansible Playbook.

**Step1:** Checking the Hadoop is installed in Namenode.



**Step2:** Checking the Hadoop is installed in Datanode.

Here, Hadoop was not installed in both Namenode and Datanode.

**Step3:** Lets configure the Hadoop in both Namenode and Datanode

- Created a playbook named play.yml to configure Hadoop cluster.
- Created another playbook named delete\_play.yml to destroy Hadoop cluster.

NNING HANDLER [start hadoop]

```
TASK [Checking haddop]

Lital: [192.166.99.11]: TAILED: > ["changed"; false, "cod": ["typd", "-q", "haddop"], "delta": "000000.29005", "ead:"; "2021-00-12 07:560.54569", "may:" "mon-zero return code", "to": 1 "yeart"; "cod"-00-12 07:560.65459", "stefar:" "", "stefar:"
```

## **Step4:** Checking the Hadoop is perfectly configured for Namenode or not.

#### root@NameNode:/etc/hadoop

### root@NameNode:/etc/hadoop

```
[root@NameNode hadoop] # hadoop dfsadmin -report
Configured Capacity: 6641680384 (6.19 GB)
Present Capacity: 4555804672 (4.24 GB)
DFS Remaining: 4555796480 (4.24 GB)
DFS Used: 8192 (8 KB)
DFS Used%: 0%
Under replicated blocks: 0
Blocks with corrupt replicas: 0
Missing blocks: 0
Datanodes available: 1 (1 total, 0 dead)
Name: 192.168.99.131:50010
Decommission Status: Normal
Configured Capacity: 6641680384 (6.19 GB)
DFS Used: 8192 (8 KB)
Non DFS Used: 2085875712 (1.94 GB)
DFS Remaining: 4555796480(4.24 GB)
DFS Used%: 0%
DFS Remaining%: 68.59%
Last contact: Fri Feb 12 08:09:24 EST 2021
```

Step5: Checking the Hadoop is perfectly configured for Datanode or not.



#### root@DataNode1:/etc/hadoop

```
[root@DataNode1 hadoop]#
23336 DataNode
23646
      Jps
```

```
root@DataNode1:/etc/hadoog
slaves taskcontroller.cfg
ssl-client.xml.example task-log4j.properties
 re-site.xml hadoop]#
                                                                ssl-server.xml.example
```

#### root@DataNode1:/etc/hadoop

```
[root@DataNode1 hadoop]# cat hdfs-site.xml
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<!-- Put site-specific property overrides in this file. -->
<configuration>
property>
<name>dfs.data.dir</name>
<value>/hadoop DN</value>
</property>
</configuration>
```

#### root@DataNode1:/etc/hadoop

```
[root@DataNode1 hadoop]# cat core-site.xml
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<!-- Put site-specific property overrides in this file. -->
<configuration>
cproperty>
<name>fs.default.name</name>
<value>hdfs://192.168.99.129:9001
</property>
</configuration>
[root@DataNode1 hadoop]#
```

#### root@DataNode1:/etc/hadoop

```
[root@DataNode1 hadoop] # hadoop dfsadmin -report
Configured Capacity: 6641680384 (6.19 GB)
Present Capacity: 4555677696 (4.24 GB)
DFS Remaining: 4555669504 (4.24 GB)
DFS Used: 8192 (8 KB)
DFS Used%: 0%
Under replicated blocks: 0
Blocks with corrupt replicas: 0
Missing blocks: 0
Datanodes available: 1 (1 total, 0 dead)
Name: 192.168.99.131:50010
Decommission Status: Normal
Configured Capacity: 6641680384 (6.19 GB)
DFS Used: 8192 (8 KB)
Non DFS Used: 2086002688 (1.94 GB)
DFS Remaining: 4555669504(4.24 GB)
DFS Used%: 0%
DFS Remaining%: 68.59%
Last contact: Fri Feb 12 08:11:45 EST 2021
```

## **Step6:** Delete the setup using delete\_play.yml

```
| Continuation | Analogy | Incompanies | Analogy | Incompanies | Analogy | Incompanies | Incompanies
```

## **Step7:** Checking the setup is deleted or not.

```
root@NameNode:~

[root@NameNode ~]# jps
4765 Jps
[root@NameNode ~]# ]

root@DataNode1:~

[root@DataNode1 ~]# jps
24494 Jps
[root@DataNode1 ~]# ]
```

Check the playbooks and files in GitHub.

## GitHub Link:

https://github.com/Anuddeeph/Configure\_Hadoop\_usin g\_Ansible.git