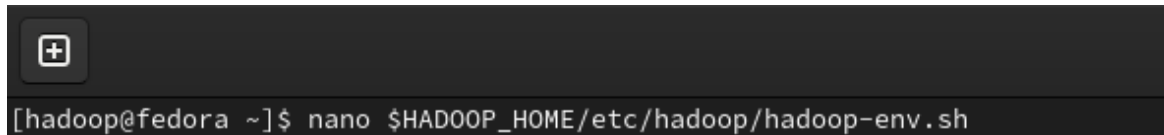


**Exp No: 1 Downloading and installing Hadoop, Understanding different Hadoop modes, Startup scripts, Configuration files.**

**\$ nano \$HADOOP\_HOME/etc/hadoop/hadoop-env.sh**

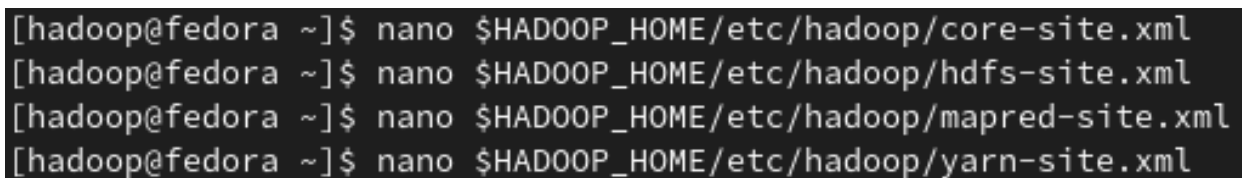
A terminal window with a dark background. At the top left, there is a small icon of a plus sign inside a square. Below it, the command `[hadoop@fedora ~]$ nano $HADOOP_HOME/etc/hadoop/hadoop-env.sh` is entered.

**\$nano \$HADOOP\_HOME/etc/hadoop/core-site.xml**

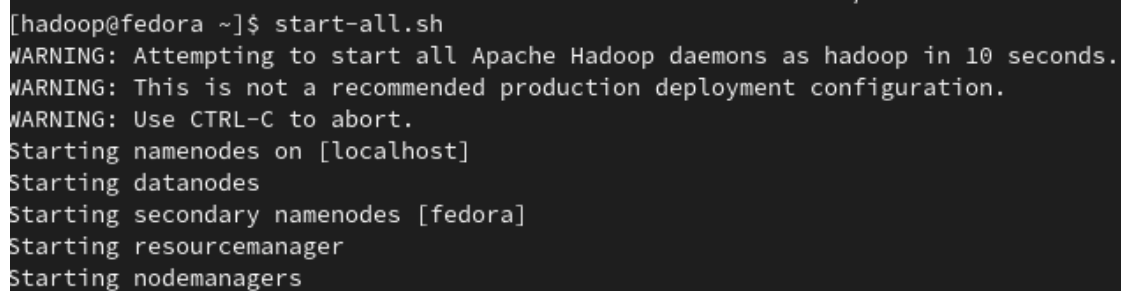
**\$nano \$HADOOP\_HOME/etc/hadoop/hdfs-site.xml**

**\$nano \$HADOOP\_HOME/etc/hadoop/mapred-site.xml**

**\$nano \$HADOOP\_HOME/etc/hadoop/yarn-site.xml**

A terminal window with a dark background showing four lines of commands: `[hadoop@fedora ~]$ nano $HADOOP_HOME/etc/hadoop/core-site.xml`, `[hadoop@fedora ~]$ nano $HADOOP_HOME/etc/hadoop/hdfs-site.xml`, `[hadoop@fedora ~]$ nano $HADOOP_HOME/etc/hadoop/mapred-site.xml`, and `[hadoop@fedora ~]$ nano $HADOOP_HOME/etc/hadoop/yarn-site.xml`.

**\$ start-all.sh**

A terminal window with a dark background showing the output of the `start-all.sh` script. The output includes several warning messages and status reports: `[hadoop@fedora ~]$ start-all.sh`, `WARNING: Attempting to start all Apache Hadoop daemons as hadoop in 10 seconds.`, `WARNING: This is not a recommended production deployment configuration.`, `WARNING: Use CTRL-C to abort.`, `Starting namenodes on [localhost]`, `Starting datanodes`, `Starting secondary namenodes [fedora]`, `Starting resourcemanager`, and `Starting nodemanagers`.

\$ jps

```
[hadoop@fedora ~]$ jps
15953 Jps
15507 NodeManager
14774 DataNode
15032 SecondaryNameNode
14607 NameNode
15375 ResourceManager
[hadoop@fedora ~]$
```

localhost:9000

Overview

localhost:9000' (active)

Started:	Wed Sep 11 13:43:13 +0530 2024
Version:	3.3.6, r1be78238728de926da4f88195058f08fd012bf9c
Compiled:	Sun Jun 18 13:52:00 +0530 2023 by ubuntu from (HEAD detached at release-3.3.6-RC1)
Cluster ID:	CID-0e026a39-2882-4d8c-9b75-475f224614a8
Block Pool ID:	BP-579655234-172.20.10.5-1726042339981

Summary

Security is off.

Safemode is off.

1 files and directories, 0 blocks (0 replicated blocks, 0 erasure coded block groups) = 1 total filesystem object(s).

Heap Memory used 78.83 MB of 192 MB Heap Memory. Max Heap Memory is 1.9 GB.

Non Heap Memory used 49.89 MB of 53.25 MB Committed Non Heap Memory. Max Non Heap Memory is <unbounded>.

Configured Capacity:	248.41 GB
Configured Remote Capacity:	0 B
DFS Used:	4 KB (0%)
Non DFS Used:	14.86 GB
DFS Remaining:	232.39 GB (93.55%)
Block Pool Used:	4 KB (0%)
DataNodes usages% (Min/Median/Max/stdDev):	0.00% / 0.00% / 0.00% / 0.00%
Live Nodes	1 (Decommissioned: 0, In Maintenance: 0)

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## All Applications

**Cluster**

- About Nodes
- Node Labels
- Applications
- NEW SUBMITTED
- ACCEPTED
- PENDING
- FINISHED
- FAILED
- KILLED
- Scheduler

---

**Tools**

**Cluster Metrics**

Apps Submitted	Apps Pending	Apps Running	Apps Completed	Containers Running	Used Resources	Total Resources	Reser
0	0	0	0	0	<memory:0 B, vCores:0>	<memory:8 GB, vCores:8>	<memory:8 B, vCores:8>

**Cluster Nodes Metrics**

Active Nodes	Decommissioning Nodes	Decommissioned Nodes	Lost Nodes	Unhealthy Nodes
1	0	0	0	0

**Scheduler Metrics**

Scheduler Type	Scheduling Resource Type	Minimum Allocation	Maximum Allocation
Capacity Scheduler	(memory-mb [unit-MB], vcores)	<memory:1024, vCores:1>	<memory:8192, vCores:4>

Show 20 ▾ entries

ID	User	Name	Application Type	Application Tags	Queue	Application Priority	StartTime	LaunchTime	FinishTime	State	FinalStatus	Running Containers	Allocated CPU VCores	Allocated Memory MB	Allocated GPUs	Reserved CPU VCores
No data available in table																

Showing 0 to 0 of 0 entries