

We suggest the following location for your download:

<https://dlcdn.apache.org/hadoop/common/hadoop-3.4.0/hadoop-3.4.0.tar.gz>

Alternate download locations are suggested below.

Trash It is essential that you [verify the integrity](#) of the downloaded file using the PGP signature ([.asc](#) file) or a hash ([.md5](#) or [.sha*](#) file).

HTTP

<https://dlcdn.apache.org/hadoop/common/hadoop-3.4.0/hadoop-3.4.0.tar.gz>

BACKUP SITES

<https://dlcdn.apache.org/hadoop/common/hadoop-3.4.0/hadoop-3.4.0.tar.gz>

VERIFY THE INTEGRITY OF THE FILES

We suggest the following location for your download:

<https://dlcdn.apache.org/hadoop/common/hadoop-3.4.0/hadoop-3.4.0.tar.gz>

Alternate download locations are suggested below.

It is essential that you [verify the integrity](#) of the downloaded file using the PGP signature ([.asc](#) file) or a hash ([.md5](#) or [.sha*](#) file).

HTTP

<https://dlcdn.apache.org/hadoop/common/hadoop-3.4.0/hadoop-3.4.0.tar.gz>

```
kuhan@ubuntu: $ sudo wget https://www.apache.org/dyn/closer.cgi/hadoop/common/hadoop-3.4.1/hadoop-3.4.1.tar.gz
[sudo] password for kuhan:
--2025-02-22 10:29:54-- https://www.apache.org/dyn/closer.cgi/hadoop/common/hadoop-3.4.1/hadoop-3.4.1.tar.gz
Resolving www.apache.org (www.apache.org)... 151.101.2.132, 2a04:4e42::644
Connecting to www.apache.org (www.apache.org)|151.101.2.132|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: 'hadoop-3.4.1.tar.gz'

hadoop-3.4.1.tar.gz          [ =>                               ]  20.91K  ---KB/s   in 0.03s

2025-02-22 10:29:55 (669 KB/s) - 'hadoop-3.4.1.tar.gz' saved [21411]

kuhan@ubuntu: $ wget https://dlcdn.apache.org/hadoop/common/hadoop-3.4.0/hadoop-3.4.0.tar.gz
```

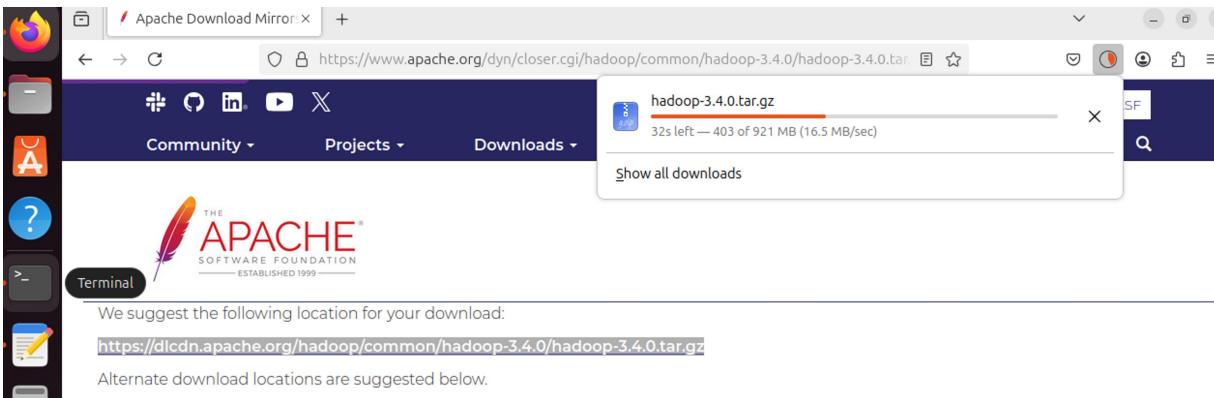
```
kuhan@ubuntu:~$ wget https://dlcdn.apache.org/hadoop/common/hadoop-3.4.0/hadoop-3.4.0.tar.gz
--2025-02-22 10:33:06-- https://dlcdn.apache.org/hadoop/common/hadoop-3.4.0/hadoop-3.4.0.tar.gz
Resolving dlcdn.apache.org (dlcdn.apache.org)... 151.101.2.132, 2a04:4e42::644
Connecting to dlcdn.apache.org (dlcdn.apache.org)|151.101.2.132|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 965537117 (921M) [application/x-gzip]
Saving to: 'hadoop-3.4.0.tar.gz'

hadoop-3.4.0.tar.gz          100%[=====] 920.81M 7.96MB/s   in 2m 34s

2025-02-22 10:35:40 (5.99 MB/s) - 'hadoop-3.4.0.tar.gz' saved [965537117/965537117]

kuhan@ubuntu:~$
```

```
kuhan@ubuntu:~$ ls -l
total 942972
drwxr-xr-x 2 kuhan kuhan      4096 Feb 22 06:30 Desktop
drwxr-xr-x 2 kuhan kuhan      4096 Feb 22 06:30 Documents
drwxr-xr-x 2 kuhan kuhan      4096 Feb 22 06:46 Downloads
-rw-rw-r-- 1 kuhan kuhan 965537117 Mar  4 2024 hadoop-3.4.0.tar.gz
-rw-r--r-- 1 root  root     21411 Feb 22 10:29 hadoop-3.4.1.tar.gz
drwxr-xr-x 2 kuhan kuhan      4096 Feb 22 06:30 Music
drwxr-xr-x 2 kuhan kuhan      4096 Feb 22 06:30 Pictures
drwxr-xr-x 2 kuhan kuhan      4096 Feb 22 06:30 Public
drwx----- 4 kuhan kuhan      4096 Feb 22 06:43 snap
drwxr-xr-x 2 kuhan kuhan      4096 Feb 22 06:30 Templates
drwxr-xr-x 2 kuhan kuhan      4096 Feb 22 06:30 Videos
kuhan@ubuntu:~$
```



```
kuhan@ubuntu:~$ ls -l ~/Downloads
total 1132408
-rw-rw-r-- 1 kuhan kuhan 965537117 Feb 22 10:43 hadoop-3.4.0.tar.gz
-rw-rw-r-- 1 kuhan kuhan 194042837 Feb 22 06:46 jdk-8u202-linux-x64.tar.gz
kuhan@ubuntu:~$
```

```
kuhan@ubuntu:~$ ls -l ~/Downloads
total 1132408
-rw-rw-r-- 1 kuhan kuhan 965537117 Feb 22 10:43 hadoop-3.4.0.tar.gz
-rw-rw-r-- 1 kuhan kuhan 194042837 Feb 22 06:46 jdk-8u202-linux-x64.tar.gz
kuhan@ubuntu:~$ cd /opt
kuhan@ubuntu:/opt$ ls -l
total 0
kuhan@ubuntu:/opt$ sudo tar -xvzf ~/Downloads/hadoop-3.4.0.tar.gz
```

```
Documents/ Downloads/
kuhan@ubuntu:~$ ls -l ~/Downloads
total 1132408
-rw-rw-r-- 1 kuhan kuhan 965537117 Feb 22 10:43 hadoop-3.4.0.tar.gz
-rw-rw-r-- 1 kuhan kuhan 194042837 Feb 22 06:46 jdk-8u202-linux-x64.tar.gz
kuhan@ubuntu:~$ cd /opt
kuhan@ubuntu:/opt$ ls -l
total 0
kuhan@ubuntu:/opt$ sudo tar -xvzf ~/Downloads/hadoop-3.4.0.tar.gz
[sudo] password for kuhan:
```

```
hadoop-3.4.0/sbin/FederationStateStore/SQLServer/dropUser.sql
hadoop-3.4.0/sbin/FederationStateStore/SQLServer/FederationStateStoreDatabase.sql
hadoop-3.4.0/sbin/start-dfs.cmd
hadoop-3.4.0/sbin/kms.sh
hadoop-3.4.0/sbin/yarn-daemon.sh
hadoop-3.4.0/sbin/workers.sh
hadoop-3.4.0/sbin/stop-all.cmd
hadoop-3.4.0/sbin/stop-all.sh
hadoop-3.4.0/sbin/stop-dfs.cmd
hadoop-3.4.0/sbin/hadoop-daemon.sh
hadoop-3.4.0/sbin/stop-secure-dns.sh
hadoop-3.4.0/sbin/httpfs.sh
hadoop-3.4.0/sbin/start-dfs.sh
hadoop-3.4.0/sbin/start-all.cmd
hadoop-3.4.0/sbin/hadoop-daemons.sh
hadoop-3.4.0/sbin/refresh-namenodes.sh
hadoop-3.4.0/sbin/start-balancer.sh
hadoop-3.4.0/sbin/start-all.sh
kuhan@ubuntu:/opt$ ls -l ~/Downloads
total 1132408
-rw-rw-r-- 1 kuhan kuhan 965537117 Feb 22 10:43 hadoop-3.4.0.tar.gz
-rw-rw-r-- 1 kuhan kuhan 194042837 Feb 22 06:46 jdk-8u202-linux-x64.tar.gz
kuhan@ubuntu:/opt$ ls -l
total 4
drwxr-xr-x 10 root root 4096 Mar 4 2024 hadoop-3.4.0
kuhan@ubuntu:/opt$
```

Update bashrc file with hadoop home path

```
See snapshots/gette for additional ve
kuhan@ubuntu:/opt$ vim.tiny ~/.bashrc
```

```
kuhan@ubuntu: /opt
fi

# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
    if [ -f /usr/share/bash-completion/bash_completion ]; then
        . /usr/share/bash-completion/bash_completion
    elif [ -f /etc/bash_completion ]; then
        . /etc/bash_completion
    fi
fi
export JAVA_HOME=/usr/local/jdk1.8.0_202
export HADOOP_HOME=/opt/hadoop-3.4.0
export HADOOP_PREFIX=$HADOOP_HOME
export HADOOP_MAPRED_HOME=$HADOOP_HOME
export HADOOP_COMMON_HOME=$HADOOP_HOME
export HADOOP_HDFS_HOME=$HADOOP_HOME
export YARN_HOME=$HADOOP_HOME
export HADOOP_CONF_DIR=$HADOOP_HOME/etc/hadoop
export YARN_CONF_DIR=$HADOOP_HOME/etc/hadoop
export CLASSPATH=$CLASSPATH:${HADOOP_HOME}/lib/*
export HADOOP_INSTALL=$HADOOP_HOME
export JAVA_LIBRARY_PATH=$HADOOP_HOME/lib/native
export PATH=$PATH:$JAVA_HOME/bin:$HADOOP_HOME/bin:$HADOOP_HOME/sbin:JAVA_LIBRARY_PATH:
```

```
kuhan@ubuntu:/opt$ vim.tiny ~/.bashrc
kuhan@ubuntu:/opt$ source ~/.bashrc
kuhan@ubuntu:/opt$
```

```
kuhan@ubuntu:/opt$ sudo apt install gedit
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  gedit-common gir1.2-amtk-5 gir1.2-gtksource-300 gir1.2-tepl-6 libgedit-amtk-5-0 libgedit-amtk-5-common
    libgedit-gtksourceview-300-0 libgedit-gtksourceview-300-common libtepl-6-4 libtepl-common python3-gi-cairo
Suggested packages:
  gedit-plugins
The following NEW packages will be installed:
  gedit gedit-common gir1.2-amtk-5 gir1.2-gtksource-300 gir1.2-tepl-6 libgedit-amtk-5-0 libgedit-amtk-5-common
    libgedit-gtksourceview-300-0 libgedit-gtksourceview-300-common libtepl-6-4 libtepl-common python3-gi-cairo
0 upgraded, 12 newly installed, 0 to remove and 3 not upgraded.
Need to get 2,574 kB of archives.
After this operation, 17.4 MB of additional disk space will be used.
Do you want to continue? [Y/n] 
```

```
kuhan@ubuntu:/opt$ sudo chown -R kuhan:kuhan /opt/hadoop-3.4.0
kuhan@ubuntu:/opt$ 
```

```
kuhan@ubuntu:/opt$ cd $HADOOP_HOME
kuhan@ubuntu:/opt/hadoop-3.4.0$ 
```

Edit xml file for configuration

```
kuhan@ubuntu:/opt/hadoop-3.4.0$ gedit etc/hadoop/core-site.xml
```

The screenshot shows a terminal window with the command `gedit etc/hadoop/core-site.xml`. The file content is displayed in a code editor window titled `*core-site.xml`. The XML configuration includes the Apache License header and site-specific properties for `fs.defaultFS` and `hadoop.tmp.dir`.

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
3 <!--
4   Licensed under the Apache License, Version 2.0 (the "License");
5   you may not use this file except in compliance with the License.
6   You may obtain a copy of the License at
7
8     http://www.apache.org/licenses/LICENSE-2.0
9
10 Unless required by applicable law or agreed to in writing, software
11 distributed under the License is distributed on an "AS IS" BASIS,
12 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
13 See the License for the specific language governing permissions and
14 limitations under the License. See accompanying LICENSE file.
15 -->
16
17 <!-- Put site-specific property overrides in this file. -->
18
19 <configuration>
20 <property>
21   <name>fs.defaultFS</name>
22   <value>hdfs://localhost:9000</value>
23 </property>
24 <property>
25   <name>hadoop.tmp.dir</name>
26   <value>/opt/hadoop-3.4.0/tmp</value>
27 </property>
28 </configuration>
```

```
kuhan@ubuntu:/opt/hadoop-3.4.0$ gedit etc/hadoop/hdfs-site.xml
```

The screenshot shows a terminal window with the command `gedit etc/hadoop/hdfs-site.xml`. The file content is displayed in a code editor window titled `hdfs-site.xml`. The XML configuration includes the Apache License header and site-specific properties for `dfs.replication`, `dfs.namenode.name.dir`, and `dfs.datanode.data.dir`.

```
8 http://www.apache.org/licenses/LICENSE-2.0
9
10 Unless required by applicable law or agreed to in writing, software
11 distributed under the License is distributed on an "AS IS" BASIS,
12 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
13 See the License for the specific language governing permissions and
14 limitations under the License. See accompanying LICENSE file.
15 -->
16
17 <!-- Put site-specific property overrides in this file. -->
18
19 <configuration>
20 <property>
21   <name>dfs.replication</name>
22   <value>1</value>
23 </property>
24 <property>
25   <name>dfs.namenode.name.dir</name>
26   <value>/opt/hadoop-3.4.0/tmp/namenode</value>
27 </property>
28 <property>
29   <name>dfs.datanode.data.dir</name>
30   <value>/opt/hadoop-3.4.0/tmp/datanode</value>
31 </property>
32 </configuration>
```

```
kuhan@ubuntu:/opt/hadoop-3.4.0$ gedit etc/hadoop/mapred-site.xml
```

The screenshot shows a text editor window with the title bar "mapred-site.xml" and the path "/opt/hadoop-3.4.0/etc/hadoop". The file content is an XML configuration for Hadoop's MapReduce framework. It includes a license notice, a warning about site-specific overrides, and a configuration section for the YARN framework.

```
1 <?xml version="1.0"?>
2 <?xmlstylesheet type="text/xsl" href="configuration.xsl"?>
3 <!--
4 Licensed under the Apache License, Version 2.0 (the "License");
5 you may not use this file except in compliance with the License.
6 You may obtain a copy of the License at
7
8     http://www.apache.org/licenses/LICENSE-2.0
9
10 Unless required by applicable law or agreed to in writing, software
11 distributed under the License is distributed on an "AS IS" BASIS,
12 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
13 See the License for the specific language governing permissions and
14 limitations under the License. See accompanying LICENSE file.
15 -->
16
17 <!-- Put site-specific property overrides in this file. -->
18
19 <configuration>
20 <property>
21     <name>mapreduce.framework.name</name>
22     <value>yarn</value>
23 </property>
24 </configuration>
```

```
kuhan@ubuntu:/opt/hadoop-3.4.0$ gedit etc/hadoop/yarn-site.xml
```

The screenshot shows a terminal window with the title bar "kuhan@ubuntu: /opt/hadoop-3.4.0". The command history shows the user navigating to the Hadoop home directory and opening the yarn-site.xml configuration file for editing.

```
kuhan@ubuntu:~$ cd $HADOOP_HOME
kuhan@ubuntu:/opt/hadoop-3.4.0$ gedit etc/hadoop/yarn-site.xml
```

Fri 24 07:00

Open yarn-site.xml /opt/hadoop-3.4.0/etc/hadoop Save

```

1 <?xml version="1.0"?>
2 <!--
3   Licensed under the Apache License, Version 2.0 (the "License");
4   you may not use this file except in compliance with the License.
5   You may obtain a copy of the License at
6
7   http://www.apache.org/licenses/LICENSE-2.0
8
9   Unless required by applicable law or agreed to in writing, software
10  distributed under the License is distributed on an "AS IS" BASIS,
11  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
12  See the License for the specific language governing permissions and
13  limitations under the License. See accompanying LICENSE file.
14 -->
15 <configuration>
16
17 <!-- Site specific YARN configuration properties -->
18 <property>
19 <name>yarn.nodemanager.aux-services</name>
20 <value>mapreduce_shuffle</value>
21 </property>
22 <property>
23 <name>yarn.nodemanager.env-whitelist</name>
24 <value>JAVA_HOME,
HADOOP_COMMON_HOME,HADOOP_HDFS_HOME,HADOOP_CONF_DIR,CLASSPATH_PREPEND_DISTCACHE,HADOOP_YARN_HOME,HADOOP_MAPRED_HOME</value>
25 </property>
26 </configuration>
```

```

kuhan@ubuntu:~$ cd $HADOOP_HOME
kuhan@ubuntu:/opt/hadoop-3.4.0$ gedit etc/hadoop/yarn-site.xml
kuhan@ubuntu:/opt/hadoop-3.4.0$ gedit etc/hadoop/hadoop-env.sh
```

Open *hadoop-env.sh /opt/hadoop-3.4.0/etc/hadoop Save

```

411 # When building Hadoop, one can add the class paths to the commands
412 # via this special env var:
413 # export HADOOP_ENABLE_BUILD_PATHS="true"
414 #
415 #
416 # To prevent accidents, shell commands be (superficially) locked
417 # to only allow certain users to execute certain subcommands.
418 # It uses the format of (command)_(subcommand)_USER.
419 #
420 # For example, to limit who can execute the namenode command,
421 # export HDFS_NAMENODE_USER=hdfs
422
423
424 ###
425 # Registry DNS specific parameters
426 ###
427 # For privileged registry DNS, user to run as after dropping privileges
428 # This will replace the hadoop.id.str Java property in secure mode.
429 # export HADOOP_REGISTRYDNS_SECURE_USER=yarn
430
431 # Supplemental options for privileged registry DNS
432 # By default, Hadoop uses jsvc which needs to know to launch a
433 # server jvm.
434 # export HADOOP_REGISTRYDNS_SECURE_EXTRA_OPTS="-jvm server"
435 export JAVA_HOME=/usr/local/jdk1.8.0_202
```

```
kuhan@ubuntu:~$ cd $HADOOP_HOME
kuhan@ubuntu:/opt/hadoop-3.4.0$ gedit etc/hadoop/yarn-site.xml
kuhan@ubuntu:/opt/hadoop-3.4.0$ gedit etc/hadoop/hadoop-env.sh
kuhan@ubuntu:/opt/hadoop-3.4.0$ sudo mkdir -p $HADOOP_HOME/tmp/namenode
[sudo] password for kuhan:
kuhan@ubuntu:/opt/hadoop-3.4.0$ sudo mkdir -p $HADOOP_HOME/tmp/datanode
```

```
kuhan@ubuntu:~$ sudo chown -R kuhan:kuhan /opt/hadoop-3.4.0
kuhan@ubuntu:/opt/hadoop-3.4.0$ bin/hdfs namenode -format
```

Format the namenode

```
kuhan@ubuntu:/opt/hadoop-3.4.0$ bin/hdfs namenode -format
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
2025-02-24 07:30:31,713 INFO namenode.NameNode: STARTUP_MSG:
/*****
STARTUP_MSG: Starting NameNode
STARTUP_MSG:   host = ubuntu/127.0.1.1
STARTUP_MSG:   args = [-format]
STARTUP_MSG:   version = 3.4.0
STARTUP_MSG:   classpath = /opt/hadoop-3.4.0/etc/hadoop:/opt/hadoop-3.4.0/share/hadoop/common/lib/netty-codec-redis-4.1.100.Final.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/netty-transport-sctp-4.1.100.Final.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/audience-annotations-0.12.0.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/jsp-api-2.1.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/netty-resolver-dns-native-macos-4.1.100.Final-osx-x86_64.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/kerb-core-2.0.3.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/guava-27.0-jre.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/commons-compress-1.24.0.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/re2j-1.1.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/jetty-security-9.4.53.v20231009.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/commons-cli-1.5.0.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/kerb-crypto-2.0.3.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/commons-lang3-3.12.0.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/stax2-api-4.2.1.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/jersey-json-1.20.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/hadoop-annotations-3.4.0.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/hadoop-shaded protobuf_3_21-1.2.0.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/netty-codec-4.1.100.Final.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/netty-common-4.1.100.Final.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/jackson-databind-2.12.7.1.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/jetty-xml-9.4.53.v20231009.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/jersey-servlet-1.19.4.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/commons-net-3.9.0.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/kerb-simplekdc-2.0.3.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/netty-transport-native-epoll-4.1.100.Final-linux-x86_64.jar:/opt/hadoop-3.4.0/share/hadoop/common/lib/netty-re
```

```
kuhan@ubuntu:/opt/hadoop-3.4.0$ 
2025-02-24 07:30:35,154 INFO namenode.FSNamesystem: Retry cache on namenode is enabled
2025-02-24 07:30:35,154 INFO namenode.FSNamesystem: Retry cache will use 0.03 of total heap and retry cache entry expiry time is 600000 millis
2025-02-24 07:30:35,167 INFO util.GSet: Computing capacity for map NameNodeRetryCache
2025-02-24 07:30:35,167 INFO util.GSet: VM type      = 64-bit
2025-02-24 07:30:35,167 INFO util.GSet: 0.029999999329447746% max memory 681 MB = 209.2 KB
2025-02-24 07:30:35,167 INFO util.GSet: capacity      = 2^15 = 32768 entries
2025-02-24 07:30:35,271 INFO namenode.FSImage: Allocated new BlockPoolId: BP-1008177252-127.0.1.1-1740382235260
2025-02-24 07:30:35,348 INFO common.Storage: Storage directory /opt/hadoop-3.4.0/tmp/namenode has been successfully formatted.
2025-02-24 07:30:35,521 INFO namenode.FSImageFormatProtobuf: Saving image file /opt/hadoop-3.4.0/tmp/namenode/current/fsimage.ckpt_00000000000000000000 using no compression
2025-02-24 07:30:35,836 INFO namenode.FSImageFormatProtobuf: Image file /opt/hadoop-3.4.0/tmp/namenode/current/fsimage.ckpt_00000000000000000000 of size 397 bytes saved in 0 seconds .
2025-02-24 07:30:35,870 INFO namenode.NNStorageRetentionManager: Going to retain 1 images with txid >= 0
2025-02-24 07:30:35,893 INFO blockmanagement.DatanodeManager: Slow peers collection thread shutdown
2025-02-24 07:30:35,927 INFO namenode.FSNamesystem: Stopping services started for active state
2025-02-24 07:30:35,927 INFO namenode.FSNamesystem: Stopping services started for standby state
2025-02-24 07:30:35,937 INFO namenode.FSImage: FSImageSaver clean checkpoint: txid=0 when meet shutdown.
2025-02-24 07:30:35,938 INFO namenode.NameNode: SHUTDOWN_MSG:
/*****
SHUTDOWN_MSG: Shutting down NameNode at ubuntu/127.0.1.1
*****/
kuhan@ubuntu:/opt/hadoop-3.4.0$ 
```

Start the dfs and yarn

```
*****/
kuhan@ubuntu:/opt/hadoop-3.4.0$ sbin/start-dfs.sh
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
Starting namenodes on [localhost]
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
Starting datanodes
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
Starting secondary namenodes [ubuntu]
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
kuhan@ubuntu:/opt/hadoop-3.4.0$ 
```

```
*****/
SHUTDOWN_MSG: Shutting down NameNode at ubuntu/127.0.1.1
*****/
kuhan@ubuntu:/opt/hadoop-3.4.0$ sbin/start-dfs.sh
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
Starting namenodes on [localhost]
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
Starting datanodes
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
Starting secondary namenodes [ubuntu]
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
kuhan@ubuntu:/opt/hadoop-3.4.0$ jps
4928 Jps
4759 SecondaryNameNode
4584 DataNode
4461 NameNode
kuhan@ubuntu:/opt/hadoop-3.4.0$ 
```

Check the process running:

```
kuhan@ubuntu: /opt/hadoop-3.4.0
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
kuhan@ubuntu:/opt/hadoop-3.4.0$ jps
4928 Jps
4759 SecondaryNameNode
4584 DataNode
4461 NameNode
kuhan@ubuntu:/opt/hadoop-3.4.0$ sbin/start-yarn.sh
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
WARNING: YARN_CONF_DIR has been replaced by HADOOP_CONF_DIR. Using value of YARN_CONF_DIR.
Starting resourcemanager
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
WARNING: YARN_CONF_DIR has been replaced by HADOOP_CONF_DIR. Using value of YARN_CONF_DIR.
Starting nodemanagers
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
WARNING: YARN_CONF_DIR has been replaced by HADOOP_CONF_DIR. Using value of YARN_CONF_DIR.
kuhan@ubuntu:/opt/hadoop-3.4.0$ jps
5317 Jps
4759 SecondaryNameNode
4584 DataNode
5032 ResourceManager
5149 NodeManager
4461 NameNode
kuhan@ubuntu:/opt/hadoop-3.4.0$
```

Stop the hdfs

```
4759 SecondaryNameNode
4584 DataNode
5032 ResourceManager
5149 NodeManager
4461 NameNode
kuhan@ubuntu:/opt/hadoop-3.4.0$ sbin/stop-yarn.sh
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
WARNING: YARN_CONF_DIR has been replaced by HADOOP_CONF_DIR. Using value of YARN_CONF_DIR.
Stopping nodemanagers
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
WARNING: YARN_CONF_DIR has been replaced by HADOOP_CONF_DIR. Using value of YARN_CONF_DIR.
Stopping resourcemanager
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
WARNING: YARN_CONF_DIR has been replaced by HADOOP_CONF_DIR. Using value of YARN_CONF_DIR.
kuhan@ubuntu:/opt/hadoop-3.4.0$ sbin/stop-dfs.sh
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
Stopping namenodes on [localhost]
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
Stopping datanodes
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
Stopping secondary namenodes [ubuntu]
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
kuhan@ubuntu:/opt/hadoop-3.4.0$
```