

## Module 6: Advanced Topics -QJM, HDFS Federation and Security

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Hands on Guide

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# Hadoop HDFS Federation Setup

## 1. Fresh HA install

**Step 1:** Start Journal Node.

**Step 2:** Format First NN hadoop namenode –format.

**Step 3:** Start First NN.

**Step 4:** Execute this command to bootstrap Standby NN, hdfs namenode - bootstrapStandby [execute this from the second NN].

**Step 5:** Start second NN.

**Step 6:** Since automatic failover is not configured both these NN's would be standby mode by default, use this command to activate one.

```
hdfs haadmin -transitiontoActive <nn_id>
```

[In our case can be nn\_active or nn\_standby]

## 2. Properties in hdfs-site.xml for Automatic failover

1. dfs.ha.automatic-failover.enabled = true

2. ha.zookeeper.quorum = list of servers comma separated where zookeeper processes are running. You can initially start with 1 node. [If you do a jps you will see QuorumPeerMain as the process name instead of zookeeper, this is **NOT** the Quorum Journal Manager. The Journal node will have the same name i.e. journalnode.]

## 3. Non-HA to HA

**Step 1:** Start Journal Node.

**Step 2:** hdfs namenode -initializeSharedEdits

**Step 3:** Execute this command to bootstrap Standby NN, hdfs namenode - bootstrapStandby [Execute this from the second NN].

**Step 4:** 4. Start second NN.

**Step 5:** Since automatic failover is not configured both these NN's would be standby mode by default, use this command to activate one.

```
hdfs haadmin -transitiontoActive <nn_id>
```

[in our case can be `nn_active` or `nn_standby`]

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