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# SIP Feature Server Administration Guide

Appendix: Remove a node from Feature Server deployed with Embedded Cassandra

## Appendix: Remove a node from Feature Server deployed with Embedded Cassandra

Prepare your environment to run node tool on Feature Server host as described in the [Running Nodetool on a Feature Server Host](#) page.

First, listing current nodes:

```
java -cp libthrift-0.7.0.jar:cassandra-thrift-1.1.6.jar:commons-cli-1.1.jar:cassandra-all-1.1.6.jar org.apache.cassandra.tools.NodeCmd -h localhost -p 9192 ring
```

Address	DC	Rack	Status	State	Load	Owns	Token
Xx	xx	xx	xx	xx	xx		83794128212295607812
10.52.86.38	usw1	RAC1	Down	Normal	?	59.09%	14189180876230654535
10.51.29.29	usw1	RAC2	Up	Normal	547.84 KB	3.45%	20055304209618966354
10.51.28.170	usw1	RAC1	Up	Normal	498.49 KB	37.46%	83794128212295607812

When the node is up, you can run `nodetool decommission` in the node you want to remove. For example, node 10.51.29.29 is up so run the following command in this node to remove it.

```
java -cp libthrift-0.7.0.jar:cassandra-thrift-1.1.6.jar:commons-cli-1.1.jar:cassandra-all-1.1.6.jar org.apache.cassandra.tools.NodeCmd -h localhost -p 9192 decommission
```

If the node is down, it results in 'dead' Cassandra node situation if you add a node to the cluster and then delete the Virtual Machine.

To recover from this problem, you must remove the 'dead' node. There is no connection to Cassandra on the node being deleted, so you cannot use 'decommission' command. Use 'removetoken' instead. For example, node 10.52.86.38 is Down. Run the following command by using its token in the any other node to remove 10.52.86.38.

```
java -cp libthrift-0.7.0.jar:cassandra-thrift-1.1.6.jar:commons-cli-1.1.jar:cassandra-all-1.1.6.jar org.apache.cassandra.tools.NodeCmd -h localhost -p 9192
```

Note that this command takes a while to complete.