

ServerNotAvailable

Server Not Available Yet

This can appear in the logs of a [DataNode](#)

```
2011-06-30 11:30:40,403 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 0 time(s).
2011-06-30 11:30:41,404 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 1 time(s).
2011-06-30 11:30:42,404 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 2 time(s).
2011-06-30 11:30:43,405 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 3 time(s).
2011-06-30 11:30:44,405 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 4 time(s).
2011-06-30 11:30:45,406 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 5 time(s).
2011-06-30 11:30:46,407 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 6 time(s).
2011-06-30 11:30:47,407 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 7 time(s).
2011-06-30 11:30:48,408 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 8 time(s).
2011-06-30 11:30:49,409 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 9 time(s).
2011-06-30 11:30:49,410 INFO org.apache.hadoop.ipc.RPC: Server at namenode/10.8.1.2:54310 not available yet,
Zzzzz...
2011-06-30 11:30:51,411 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 0 time(s).
2011-06-30 11:30:52,412 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 1 time(s).
2011-06-30 11:30:53,412 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 2 time(s).
2011-06-30 11:30:54,413 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 3 time(s).
2011-06-30 11:30:55,414 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 4 time(s).
2011-06-30 11:30:56,414 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 5 time(s).
2011-06-30 11:30:57,415 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 6 time(s).
2011-06-30 11:30:58,416 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 7 time(s).
2011-06-30 11:30:59,416 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 8 time(s).
2011-06-30 11:31:00,417 INFO org.apache.hadoop.ipc.Client: Retrying connect to server: namenode/10.8.1.2:54310.
Already tried 9 time(s).
2011-06-30 11:31:00,418 INFO org.apache.hadoop.ipc.RPC: Server at namenode/10.8.1.2:54310 not available yet,
Zzzzz...
```

What's happening here is that the [DataNode](#) cannot connect to the [NameNode](#). Rather than fail, it assumes that the [NameNode](#) is temporarily offline - it hasn't started or is being restarted. The [DataNodes](#) will happily wait for the [NameNode](#) to come back up, and as soon as it does, report in. After trying repeatedly every seconds the client will back off for couple of seconds, then try again.

This process of retrying and backing off is a key part of how an HDFS cluster handles the temporary outage of a [NameNode](#). It works well provided the network is set up and running correctly. It can be triggered by other cluster setup problems, which anyone setting up a Hadoop cluster is likely to encounter.

1. The namenode hasn't been started yet. Fix: start the [NameNode](#).
2. The `fs.default.name` property in `core-site.xml` doesn't point to the correct hostname for the [NameNode](#), and the [DataNodes](#) are trying to connect to the wrong server. Look at the server name in the log and verify it is valid.
3. The port in the `fs.default.name` property is wrong. Verify the [NameNode](#) is listening at that port; if not correct the site settings.
4. The client can't resolve the hostname, or it is resolving to the wrong address. Verify that IP address in the logs.
5. Connection problems. Look at the network connectivity options in the [TroubleShooting](#) page.