

# Upgrading Cassandra

Teamwork Cloud no longer supports Apache Cassandra 3.x, therefore before upgrading Teamwork Cloud, you need to upgrade Cassandra to version 4.0.3.



## Before upgrading

- Make sure that all the nodes are ready.
- Create a snapshot of your data for backup.
- Upgrade sstables by running the command **nodetool upgradesstables** on each node.

To upgrade Cassandra

1. **IMPORTANT!** Flush memtables to the disk by executing the following command:

```
nodetool drain
```

2. Shut down the 3.x node.
3. Backup the Cassandra configuration file at: `/etc/cassandra/default.conf/cassandra.yaml`
4. Make a note of the existing cluster name and token count with the following command:

```
grep -E 'num_tokens:|cluster_name:' cassandra.yaml
```

5. Uninstall/remove Cassandra 3.x (example with yum package manager)

```
sudo yum remove -y cassandra
```

6. Install Cassandra 4.x. for installation instructions, see [Installing Cassandra on Linux](#) or [Installing Cassandra on Windows](#).
7. Configure the 4.x node to point to the appropriate data files in the `/etc/cassandra/default.conf/cassandra.yaml` settings as shown in the example below.

## Example

```
data_file_directories:  
- /data/data  
commitlog_directory: /logs/commitlog  
hints_directory: /data/hints  
saved_caches_directory: /data/saved_caches
```

8. Check the cluster name and token count in `cassandra.yaml`. If needed, replace the default values with the values set in 3.x. The example below shows the default values for a Cassandra 4.x installation.

## Example

```
cluster_name: 'Test Cluster'  
num_tokens: 16
```



## Cassandra 4 Configuration

The cluster name and token count must match those values set in Cassandra 3.x.

9. Start the Cassandra 4.x node.
10. Check the log files for errors.
11. After the upgrade is complete, perform required post-installation configuration changes. For more information, see [Post-installation steps on Linux](#) or [Post-installation steps on Windows](#).

## Additional resources

For more information about upgrading Apache Cassandra, see <https://www.datastax.com/learn/whats-new-for-cassandra-4/migrating-cassandra-4x>.