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Chapter 1

Administration Basics

This chapter covers everything on the Administration of a Couchbase Server cluster. Administration is supported through three primary methods:

- **Couchbase Web Console**

Couchbase includes a built-in web server and administration interface that provides access to the administration and statistic information for your cluster.

For more information, read [Using the Web Console](#).

- **Command-line Toolkit**

Provided within the Couchbase package are a number of command-line tools that allow you to communicate and control your Couchbase cluster.

For more information, read [Command-line Interface for Administration](#).

- **Couchbase REST API**

Couchbase Server includes a RESTful API that enables any tool capable of communicating over HTTP to administer and monitor a Couchbase cluster.

For more information, read [Using the REST API](#).

Couchbase Data Files

By default, Couchbase Server will store the data files under the following paths:

Platform	Directory
Linux	/opt/couchbase/var/lib/couchbase/data
Windows	C:\Program Files\couchbase\server\var\lib\couchbase\data
Mac OS X	~/Library/Application Support/Couchbase/var/lib/couchbase/data

This path can be changed for each node at setup either via the Web UI setup wizard, using the REST API or using the Couchbase CLI:

Changing the data path for a node that is already part of a cluster will permanently delete the data stored.

Linux:

```
> couchbase-cli node-init -c node_IP:8091 \  
    --node-init-data-path=new_path \  
    -u user -p password
```

Windows:

```
> couchbase-cli node-init -c \  
    node_IP:8091 --node-init-data-path=new_path \  
    -u user -p password
```

When using the command line tool, you cannot change the data file and index file path settings individually. If you need to configure the data file and index file paths individually, use the REST API. For more information, see [Configuring Index Path for a Node](#)

For Couchbase Server 2.0, once a node or cluster has already been setup and is storing data, you cannot change the path while the node is part of a running cluster. You must take the node out of the cluster then follow the steps below:

1. Change the path on a running node either via the REST API or using the Couchbase CLI (commands above). This change will not actually take effect until the node is restarted. For more information about using a REST-API request for ejecting nodes from clusters, see [Removing a Node from a Cluster](#).
2. Shut the node down.
3. Copy all the data files from their original location into the new location.
4. Start the service again and monitor the “warmup” of the data.

Server Startup and Shutdown

The packaged installations of Couchbase Server include support for automatically starting and stopping Couchbase Server using the native boot and shutdown mechanisms.

For information on starting and stopping Couchbase Server, see the different platform-specific links:

- [Startup and Shutdown on Linux](#)
- [Startup and Shutdown on Windows](#)
- [Startup and Shutdown on Mac OS X](#)

Startup and Shutdown on Linux

On Linux, Couchbase Server is installed as a standalone application with support for running as a background (daemon) process during startup through the use of a standard control script, `/etc/init.d/couchbase-server`. The startup script is automatically installed during installation from one of the Linux packaged releases (Debian/Ubuntu or RedHat/CentOS). By default Couchbase Server is configured to be started automatically at run levels 2, 3, 4, and 5, and explicitly shutdown at run levels 0, 1 and 6.

To manually start Couchbase Server using the startup/shutdown script:

```
> sudo /etc/init.d/couchbase-server start
```

To manually stop Couchbase Server using the startup/shutdown script:

```
> sudo /etc/init.d/couchbase-server stop
```

Startup and Shutdown on Windows

On Windows, Couchbase Server is installed as a Windows service. You can use the **Services** tab within the Windows Task Manager to start and stop Couchbase Server.

You will need Power User or Administrator privileges, or have been separately granted the rights to manage services to start and stop Couchbase Server.

By default, the service should start automatically when the machine boots. To manually start the service, open the Windows Task Manager and choose the **Services** tab, or select the **Start**, choose **Run** and then type `Services.msc` to open the Services management console.

Once open, find the `CouchbaseServer` service, right-click and then choose to Start or Stop the service as appropriate. You can also alter the configuration so that the service is not automatically started during boot.

Alternatively, you can start and stop the service from the command-line, either by using the system `net` command. For example, to start Couchbase Server:

```
> net start CouchbaseServer
```

To stop Couchbase Server:

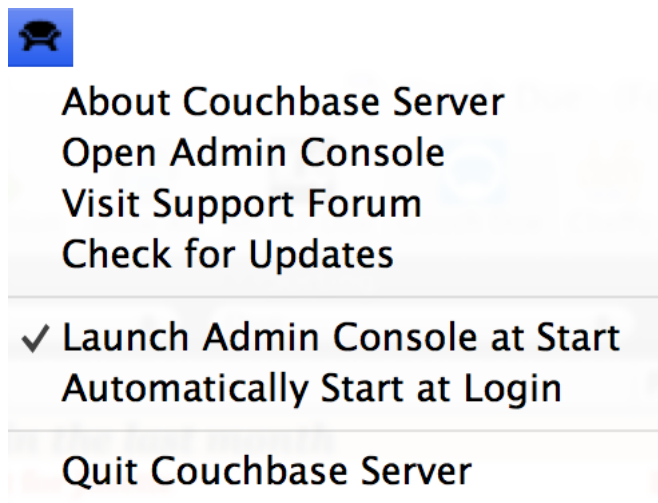
```
> net stop CouchbaseServer
```

Start and Stop scripts are also provided in the standard Couchbase Server installation in the `bin` directory. To start the server using this script:

```
> C:\Program Files\Couchbase\Server\bin\service_start.bat
```

To stop the server using the supplied script:

```
> C:\Program Files\Couchbase\Server\bin\service_stop.bat
```



Startup and Shutdown on Mac OS X

On Mac OS X, Couchbase Server is supplied as a standard application. You can start Couchbase Server by double clicking on the application. Couchbase Server runs as a background application which installs a menubar item through which you can control the server.

The individual menu options perform the following actions:

- **About Couchbase**

Opens a standard About dialog containing the licensing and version information for the Couchbase Server installed.

- **Open Admin Console**

Opens the Web Administration Console in your configured default browser.

- **Visit Support Forum**

Opens the Couchbase Server support forum within your default browser at the Couchbase website where you can ask questions to other users and Couchbase developers.

- **Check for Updates**

Checks for updated versions of Couchbase Server. This checks the currently installed version against the latest version available at Couchbase and offers to download and install the new version. If a new version is available, you will be presented with a dialog containing information about the new release.

If a new version is available, you can choose to skip the update, notify the existence of the update at a later date, or to automatically update the software to the new version.

If you choose the last option, the latest available version of Couchbase Server will be downloaded to your machine, and you will be prompted to allow the installation to take place. Installation will shut down your existing Couchbase Server process, install the update, and then restart the service once the installation has been completed.

Once the installation has been completed you will be asked whether you want to automatically update Couchbase Server in the future.

Using the update service also sends anonymous usage data to Couchbase on the current version and cluster used in your organization. This information is used to improve our service offerings.

You can also enable automated updates by selecting the **Automatically download and install updates in the future** checkbox.

- **Launch Admin Console at Start**

If this menu item is checked, then the Web Console for administrating Couchbase Server will be opened whenever the Couchbase Server is started. Selecting the menu item will toggle the selection.

- **Automatically Start at Login**

If this menu item is checked, then Couchbase Server will be automatically started when the Mac OS X machine starts. Selecting the menu item will toggle the selection.

- **Quit Couchbase**

Selecting this menu option will shut down your running Couchbase Server, and close the menubar interface. To restart, you must open the Couchbase Server application from the installation folder.