

# CLI

The DC/OS command line interface (DC/OS CLI) is a utility to manage cluster nodes, install and manage packages, inspect the cluster state, and manage services and tasks.

DC/OS 1.10 requires the DC/OS CLI 0.5.x.

To list available commands, run `dcos` with no parameters:

```
dcos
```

```
Command line utility for the Mesosphere Datacenter Operating System (DC/OS). The Mesosphere DC/OS is a distributed operating system built around Apache Mesos. This utility provides tools for easy management of a DC/OS installation.
```

```
Available DC/OS commands:
```

```
auth          Authenticate to DC/OS cluster
cluster       Manage connections to DC/OS clusters
config        Manage the DC/OS configuration file
experimental  Experimental commands. These commands are under development and are subject to change
help          Display help information about DC/OS
job           Deploy and manage jobs in DC/OS
marathon      Deploy and manage applications to DC/OS
node          Administer and manage DC/OS cluster nodes
package       Install and manage DC/OS software packages
service       Manage DC/OS services
task          Manage DC/OS tasks
```

```
Get detailed command description with `dcos <command> --help`.
```

## Deploying the DC/OS CLI version

# Displaying the DC/OS CLI version

To display the DC/OS CLI version, run:

```
dcos --version
```

## DC/OS CLI versions and configuration files

DC/OS CLI 0.4.x and 0.5.x use a different structure for the location of configuration files

DC/OS CLI 0.4.x has a single configuration file, which by default is stored in `~/ .dcos/dcos.toml`. In DC/OS CLI 0.4.x you can optionally change the location of the configuration file using the `DCOS_CONFIG` environment variable.

DC/OS CLI 0.5.x has a configuration file for each connected cluster, which by default are in `~/ .dcos/clusters/<cluster_id>/dcos.toml`. In DC/OS CLI 0.5.x you can also change the base portion (`~/ .dcos`) of the configuration directory using the `DCOS_D` environment variable.

### Note:

- Updating to the DC/OS CLI 0.5.x and running any CLI command triggers conversion from old to the new configuration structure.
- After you call `dcos cluster setup`, (or after conversion has occurred), if you attempt to update the cluster configuration using a `dcos config set` command, the command prints a warning message saying the command is deprecated and cluster configuration may now be corrupted.

# Environment variables

The DC/OS CLI supports the following environment variables, which can be set dynamically.

## `DCOS_CLUSTER` (DC/OS CLI 0.5.x and higher only)

The attached cluster. To set the attached cluster, set the variable with the command:

```
export DCOS_CLUSTER=<cluster_name>
```

## `DCOS_CONFIG` (DC/OS CLI 0.4.x only)

The path to a DC/OS configuration file. If you put the DC/OS configuration file in `/home/jdoe/config/dcos.toml`, set the variable with the command:

```
export DCOS_CONFIG=/home/jdoe/config/dcos.toml
```

If you have the `DCOS_CONFIG` environment variable configured:

- After conversion to the new configuration structure, `DCOS_CONFIG` is no longer used.
- Before you call `dcos cluster setup`, you can change the configuration pointer to `DCOS_CONFIG` using `dcos config set`. This command prints a warning message saying the command is deprecated and recommends using `dcos cluster setup`.

## `DCOS_DIR` (DC/OS CLI 0.5.x and higher only)

The path to a DC/OS configuration directory. If you want the DC/OS configuration directory to be `/home/jdoe/config`, set the variable with the command:

```
export DCOS_DIR=/home/jdoe/config
```

1. Optionally set `DCOS_DIR` and run `dcos cluster setup` command.

```
export DCOS_DIR=<path/to/config_dir> (optional, default when not set is ~/.  
dcos cluster setup <url>
```

This setting generates and updates per cluster configuration under `$DCOS_DIR/clusters/<cluster_id>`. Sets newly set up cluster as the attach

## DCOS\_SSL\_VERIFY

Indicates whether to verify SSL certificates or set the path to the SSL certificates. You n  
this variable manually. Setting this environment variable is equivalent to setting the `dc  
config set core.ssl_verify` option in the DC/OS configuration file. For example  
indicate that you want to set the path to SSL certificates:

```
export DCOS_SSL_VERIFY=false
```

## DCOS\_LOG\_LEVEL

Prints log messages to stderr at or above the level indicated. This is equivalent to the `-  
level` command-line option. The severity levels are:

- **debug** Prints all messages to stderr, including informational, warning, error, and critical
- **info** Prints informational, warning, error, and critical messages to stderr.
- **warning** Prints warning, error, and critical messages to stderr.

- **error** Prints error and critical messages to stderr.
- **critical** Prints only critical messages to stderr.

For example, to set the log level to warning:

```
export DCOS_LOG_LEVEL=warning
```

## DCOS\_DEBUG

Indicates whether to print additional debug messages to `stdout`. By default this is set to `false`. For example:

```
export DCOS_DEBUG=true
```

## Installing the CLI

The recommended method to install the DC/OS CLI is from the DC/OS web interface. You can manually install the CLI by using the instructions below.