# Overview

The Cinder Diagnostics CLI tool (cinderdiags) is used to validate a user’s Cinder configuration, specifically as regards their use of 3PAR hardware.

# Setup

These are the steps required to download, install, and configure the CLI for use.

## Download

Users may download cinderdiags from pypi, or through cloning the GitHub repository.

## Installation

If the CLI was cloned from github, install by running python setup.py install in the diagsapp directory.

## Configuration file

Before executing cinderdiags, the user must create a customized copy of cli.conf in the /etc/cinderdiags/ directory. Users are advised to copy and edit cli.conf.example. If users do not have access to /etc/ they can specify another location for cli.conf by using -conf-file <file path> when running CLI commands

### Purpose of the config file:

The sections in cli.conf tell cinderdiags where to find the various nodes in the user’s OpenStack environment, how to access them, and what types of node they are.

### Required fields in each section of the config file:

* Name
  + Each section requires a name, enclosed in square brackets.
  + This name does NOT have to correspond to the node’s actual host name.
  + The provided name MUST be unique within this config file.
* service
  + This field describes the node’s role in the OpenStack environment.
  + Legal values are “cinder” and “nova”.
* host\_ip
  + The Management IP address of the node.
  + The IP address must be reachable from the machine where the CLI will execute.
* ssh\_user
  + Username with which to authenticate an SSH connection to the node.
  + The CLI will use SSH to remotely log in to the node, and gather information.
* ssh\_password
  + Password with which to authenticate an SSH connection to the node.
* conf\_source
  + The location of the active cinder.conf on the node.

# Usage

For up-to-date information on a given command’s arguments and output:

$ cinderdiags help [COMMAND]

### options-check

The options-check command is used to validate the settings for volume back-ends which use 3PAR storage, as defined in the user’s cinder.conf. This command will check each node defined in cli.conf, as appropriate.

### Software-check

This command is used to check whether or not required software has been installed on the nodes specified in cli.conf. The command also attempts to verify that installed software is at or higher than a certain minimum version.