

B SH (/)

[quick tutorial \(https://bit.ly/learn-bosh\)](https://bit.ly/learn-bosh)[docs \(/docs\)](#)[github \(https://github.com/cloudfoundry/bosh\)](https://github.com/cloudfoundry/bosh)[#bosh on slack \(https://slack.cloudfoundry.org\)](https://slack.cloudfoundry.org)

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Note: See [\[CLI v2\]\(cli-v2.html\)](#) for an updated CLI.

This document lists the all CLI commands you use to perform system administration tasks.

For Cluster Operators

Use these commands against the Director to manage deployments and associated assets.

Director Location

```
$ bosh target [DIRECTOR_URL] [ALIAS]
```

Connects to the Director URL/IP that you specify for ongoing communication. You can provide `ALIAS` to set an alias for the Director. Displays the currently targeted Director if you do not provide a URL.

```
$ bosh login [USERNAME] [PASSWORD]
```

Authenticates a user with the Director when you provide a username and password. Prompts for this information if you omit it.

```
$ bosh status [--uuid]
```

Displays the configuration file and deployment manifest in use, and information about the BOSH Director such as name, URL, version, current username, UUID, and CPI.

Users

Use these commands to create and delete users on the Director.

```
$ bosh create user [USERNAME] [PASSWORD]
```

Creates a user with the Director. Prompts you for a `USERNAME` and `PASSWORD` if you omit this information.

```
$ bosh delete user [USERNAME]
```

Deletes a specific user from the BOSH Director. Prompts you for a `USERNAME` if you omit this information.

Releases

```
$ bosh releases [--jobs]
```

Displays the list of available releases.

```
$ bosh upload release [RELEASE_FILE] [--rebase] [--skip-if-exists]
$ bosh upload release RELEASE_URL
```

Uploads the file that you specify as a release. If you do not provide a `RELEASE_FILE`, you must run this command from a valid release directory.

```
$ bosh delete release NAME [VERSION] [--force]
```

Deletes a release and associated jobs, packages, compiled packages, and all package metadata. Fails if a deployment references this release.

```
$ bosh inspect release NAME/VERSION
```

Prints release jobs and packages and their associated blobstore records as known by the Director.

```
$ bosh export release NAME/VERSION OS/VERSION
```

Exports given release as a tarball, including compiled packages for stemcell that matches OS and version.

Stemcells

```
$ bosh stemcells
```

Displays the name, version, and CID of available stemcells.

```
$ bosh upload stemcell STEMCELL_PATH [--skip-if-exists]
$ bosh upload stemcell STEMCELL_URL
```

Uploads specified stemcell. See [stemcells section of bosh.io](http://bosh.io/stemcells) (<http://bosh.io/stemcells>) for all available stemcells.

```
$ bosh delete stemcell NAME VERSION [--force]
```

Deletes a stemcell and all associated compiled packages. Fails if any deployment references this stemcell.

Cloud config

```
$ bosh cloud-config
```

Displays current cloud config saved in the Director.

```
$ bosh update cloud-config FILE_PATH
```

Updates currently saved cloud config in the Director. See [cloud config description \(/docs/cloud-config.html\)](/docs/cloud-config.html).

Runtime config

```
$ bosh runtime-config
```

Displays current runtime config saved in the Director.

```
$ bosh update runtime-config FILE_PATH
```

Updates currently saved runtime config in the Director. See [runtime config description \(/docs/runtime-config.html\)](/docs/runtime-config.html).

Deployment

```
$ bosh deployments
```

Displays the list of created deployments on the Director. Shows stemcells and releases used by each deployment.

```
$ bosh deployment [FILE_PATH]
```

Switches the CLI to operate on the deployment specified by the deployment manifest `FILE_PATH`. Displays the current deployment if you omit `FILENAME`.

```
$ bosh deploy [--recreate]
```

Creates/updates or recreates a deployment.

```
$ bosh download manifest DEPLOYMENT_NAME [FILE_PATH]
```

Downloads and saves the deployment manifest of the deployment `DEPLOYMENT_NAME` to `FILE_PATH`.

```
$ bosh delete deployment DEPLOYMENT_NAME [--force]
```

Deletes job instances, VMs, disks, snapshots, templates associated with the deployment `DEPLOYMENT_NAME`.

Job/VM Health

```
$ bosh instances [--ps] [--details] [--dns] [--vitals]
```

Displays a table that provides an overview of the instances in a current deployment. You can specify the following options:

- **ps:** includes process information
- **details:** includes VM cloud ID, agent ID
- **dns:** includes the DNS A record
- **vitals:** includes load, CPU, memory, swap, system disk, ephemeral disk, and persistent disk usage

```
$ bosh vms [DEPLOYMENT_NAME] [--details] [--dns] [--vitals]
```

Displays a table that provides an overview of the VMs in `DEPLOYMENT_NAME`. You can specify the following options:

- **details:** includes VM cloud ID, agent ID
- **dns:** includes the DNS A record
- **vitals:** includes load, CPU, memory, swap, system disk, ephemeral disk, and persistent disk usage

```
$ bosh recreate JOB [INDEX] [--force]
```

Stops the job process, recreates the VM, creates the job instance on the new VM, then starts the job process. `--force` executes the command even if the local manifest doesn't match the version the BOSH director has.

```
$ bosh stop JOB [INDEX] [--hard] [--force]
```

Stops the job processes, and if `--hard` is specified deletes a VM keeping persistent disks.

```
$ bosh start JOB [INDEX] [--force]
```

Creates a VM and reattaches active persistent disk if VM does not exist, then starts the job processes.

```
$ bosh vm resurrection [STATE]
$ bosh vm resurrection JOB INDEX [STATE]
```

Sets resurrection state (`on` or `off`) for all VMs managed by the Director or for a single deployment job instance.

```
$ bosh cck [DEPLOYMENT_NAME] [--auto] [--report]
```

Scans for differences between the VM state database that the Director maintains and the actual state of the VMs. For each difference the scan detects, `bosh cck` offers possible repair options.

Errands

```
$ bosh errands
```

Displays a table that lists all available errands for the set deployment.

```
$ bosh run errand ERRAND_NAME [--download-logs] [--logs-dir DESTINATION_DIRECTORY]
```

Instructs the BOSH Director to run the named errand on a job instance on a VM.

SSH

```
$ bosh ssh [--gateway_host HOST] [--gateway_user USER] [--gateway_identity_file FILE] [--default_password PASSWORD]
```

Executes a command or starts an interactive shell via SSH. You can tunnel the SSH connection over a `gateway` by specifying additional options.

```
$ bosh ssh JOB [INDEX] [COMMANDS]
```

When you provide arguments without an option flag, the Director executes the arguments as commands on the job VM. For example, `bosh ssh redis 0 "ls -R"` runs the `ls -R` command on the redis/0 job VM.

Director Tasks

```
$ bosh tasks [--no-filter]
```

Displays a table that lists the following for all *currently running* tasks: ID number, state, timestamp, user, description, and result.

```
$ bosh tasks recent [COUNT] [--no-filter]
```

Displays a table that lists the following for the last `COUNT` tasks: ID number, state, timestamp, user, description, and result. `COUNT` defaults to 30.

```
$ bosh task [TASK_ID] [--event] [--cpi] [--debug] [--result] [--raw]
```

Displays the status of a task that you specify and tracks its output. You can track only one of the following log types at a time: event, CPI, debug, or result. Defaults to event.

Logs

```
$ bosh logs JOB [INDEX] [--agent] [--job] [--only filter1,filter2,...] [--dir DESTINATION_DIRECTORY]
```

Fetches a job or agent log from a VM. Supports custom filtering only for job logs.

Events

```
$ bosh events [--before-id ID] [--deployment NAME] [--task ID] [--instance NAME/ID]
```

Displays table that lists events based on filters specified. See [events details \(/docs/events.html\)](/docs/events.html).

Disks

```
$ bosh disks --orphaned
```

Displays disk CID, previous deployment and instance, and orphaned date of all orphaned persistent disks.

```
$ bosh attach disk DISK_ID INSTANCE_NAME/ID
```

Attaches persistent disk to given instance. Instance must be in the stopped state.

Snapshots

```
$ bosh snapshots
```

Displays the job, CID, and created date of all snapshots.

```
$ bosh take snapshot [JOB] [INDEX]
```

Takes a snapshot of the job VM that you specify. If you do not specify a `JOB`, takes a snapshot of every VM in your deployment.

```
$ bosh delete snapshots
```

Deletes all snapshots.

```
$ bosh delete snapshot SNAPSHOT_CID
```

Deletes a snapshot.

For Release Maintainers

Use these commands against the Director to create and update releases.

Release Creation

```
$ bosh create release [MANIFEST_FILE] [--name NAME] [--version VERSION] [--with-tarball] [--force]
```

Creates a development release.

```
$ bosh create release [MANIFEST_FILE] [--name NAME] [--version VERSION] [--with-tarball] [--force] --final
```

Creates a final release.

```
$ bosh finalize release RELEASE_PATH [--name NAME] [--version VERSION]
```

Create a final release from a development release tarball (assumes current directory to be a release directory).

Blobs

```
$ bosh blobs
```

Lists blobs pending an upload.

```
$ bosh upload blobs
```

Uploads new and updated blobs to the blobstore.

[Contribute changes to this page \(https://github.com/cloudfoundry/docs-bosh/blob/master/sysadmin-commands.html.md.erb\)](https://github.com/cloudfoundry/docs-bosh/blob/master/sysadmin-commands.html.md.erb)

COMMUNITY

- [Documentation \(/docs\)](/docs/)

- github.com/cloudfoundry/bosh (<https://github.com/cloudfoundry/bosh>)
- [#bosh on Slack](https://slack.cloudfoundry.org) (<https://slack.cloudfoundry.org>)
- [cf-bosh mailing list](https://lists.cloudfoundry.org/pipermail/cf-bosh) (<https://lists.cloudfoundry.org/pipermail/cf-bosh>)
- [Pivotal Tracker project](https://www.pivotaltracker.com/n/projects/956238) (<https://www.pivotaltracker.com/n/projects/956238>)
- [Report a security issue](https://pivotal.io/security) (<https://pivotal.io/security>)