# 1 Bosh CheatSheet Tools

• PDF Link: cheatsheet-bosh-A4.pdf, Category: tools

 $\bullet \ \operatorname{Blog} \ \operatorname{URL} \colon \texttt{https://cheatsheet.dennyzhang.com/cheatsheet-bosh-A4}$ 

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#### 1.1 Bosh Concepts

Name	Comment
Reference	link: terminology
Bosh Stemcells	A versioned Operating System image. Download stemcell
Bosh Tile	A *.pivotal file containing everything needed to install/upgrade a PCF service
Bosh Deployment	An encapsulation of software and configuration that BOSH can deploy to the cloud.
Bosh Release	Everything needed to make a software component deployable by BOSH.
Bosh Job	Each release job represents a specific chunk of work that the release performs.
Bosh Package	It contains vendored in software source and scripts to compile it.
Bosh Errand	A short-lived job that can be triggered by an operator any time after the deploy.
Bosh Manifest	A YAML file that identifies one or more releases, stemcells and configurations
Bosh Operations file (ops file)	A YAML file that includes multiple operations to be applied to a different YAML file.
Bosh Event	Actions taken by the Director (via user or system control) are recorded as events
Bosh Director	The Director is the orchestrator of deployments.
Bosh Addon	A release job that is colocated on all VMs managed by the Director.
Bosh Agent	A process that runs continuously on each VM that BOSH deploys. one Agent process per VM
Bosh Jumpbox	A VM that acts as a single access point for the Director and deployed VMs.
Director Blobstore	A repository where BOSH stores release artifacts, logs, stemcells, and other content, etc
Cloud ID (CID)	ID returned from the Cloud identifying particular resource such as VM or disk.
BBR (bosh-backup-and-restore)	a framework for backing up and restoring BOSH deployments and BOSH Directors.
bbl (bosh-bootloader)	a command line utility for standing up BOSH on multi-clouds
kiln	Kiln helps you maintain tile metadata

### 1.2 Bosh Basic

Name	Command
bosh	apt install bosh-cli, link: pivotal bosh command
Interpolates variables	bosh int /tmp/build/4dcXX/pks-lock/metadatapath=/ops_manager/username link
Delete a deployment	bosh delete-deployment -d \$deployment
bosh log	/var/vcap/bosh/log
List all bosh deployments	bosh -n deployments
Download log files	bosh -d <deployment>_id logs</deployment>
Show deployment manifest	bosh manifest -d <deployment></deployment>
bosh config	bosh cloud-config, bosh configs
List environment	bosh env, bosh env json
List all instances	bosh instances
Get vms per deployment	bosh -e \$env -d <deployment> vms, bosh instances</deployment>
Cloud consistency check	bosh cloud-check -d <deployment></deployment>
List disks	bosh disks -o

## 1.3 Bosh VM

Name	Command
List vms	bosh -d <deployment> vms</deployment>
List vms with verbose info	bosh -d <deployment> vmsvitals</deployment>
Delete a vm	bosh -d <deployment> delete-vm <vm></vm></deployment>
SSH to vm	bosh -e <env> -d <deployment> ssh <vm></vm></deployment></env>

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# 1.4 Bosh Deployment

Name	Command
List bosh deployments	bosh deployments
Delete bosh deployment	bosh -n -d <deployment> delete-deploymentforce</deployment>
Get deployment manifest yaml	<pre>bosh manifest -d <deployment> &gt; my.yaml</deployment></pre>
Run bosh deployment from vaml	bosh deploy -d <deployment> my.yaml</deployment>

## 1.5 Bosh Task

Name	Command
List recent tasks	bosh -d <deployment> tasksrecent</deployment>
List all tasks	bosh -d <deployment> tasks -ar</deployment>
Attach to current task	bosh -d <deployment> task -a</deployment>
Get task by id	bosh -d <deployment> task \$id</deployment>
Get task detail msg	bosh -d <deployment> task \$iddebug</deployment>
SSH to vm	bosh -d <deployment> ssh \$instance_name</deployment>
Get all logs for a deployment	bosh -d <deployment> logs</deployment>
Get log for one vm	bosh -d <deployment> logs \$instance_name</deployment>
List bosh events	bosh events

## 1.6 Bosh Release

Name	Command
List release	bosh -n releases
Release folder	/var/tempest/releases
Create a local release	bosh create-releasetarball=myrelease-0.4.0.tgz
Inspect a release	bosh inspect-release <my-release>/<release-version></release-version></my-release>
Export a release	bosh -d <deployment> export-release <my-release>/<release-version> ubuntu-trusty</release-version></my-release></deployment>
Delete release	bosh -n delete-release <my-release>/<release-version>force</release-version></my-release>
Upload release	bosh -n upload-release /tmp/my-release-0.22.0.tgz
Create a release from directory	bosh init-releasedir <my-release></my-release>

# 1.7 Bosh Errand

	Name	Command
_	List errands	bosh errands -d <deployment></deployment>
	Run errand in a new vm	bosh -n -d <deployment> run-errand <errand_name> link: run-errand</errand_name></deployment>
	Run errand in a new vm with env alive	bosh -n -d <deployment> run-errand <errand_name>keep-alive</errand_name></deployment>
	Run errand in an existing vm	bosh -n -d <deployment> run-errand <errand_name>instance=worker/instance=</errand_name></deployment>

# 1.8 Bosh Manifest

Name	Command
Show bosh manifest	bosh manifest -d <deployment> link: manifest</deployment>

# 1.9 Bosh Stemcell

Name	Command
Upload stemcell	bosh -n upload-stemcell /tmp/stemcell.tgz
List stemcells	bosh -n stemcells

# 1.10 Bosh Monit

Name	Comment
List bosh deployed daemon processes	sudo su -, monit summary
Restart a given daemon processes	<pre>monit restart <pre>cess_name&gt;</pre></pre>

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#### 1.11 Ops manager

Name	Command
Release folder	/var/tempest/releases
Restart Ops Manager	service tempest-web stop/start
Change file permision for your release	<pre>chown tempest-web:tempest-web /var/tempest/releases/<your-release.tgz></your-release.tgz></pre>
Tile entrance file	/var/tempest/workspaces/default/metadata/*.yml
Tile jobs folder	/var/vcap/jobs

#### 1.12 Bosh Tile Reference

Name	Command
Forms Reference	https://docs.pivotal.io/tiledev/2-1/product-template-reference.html#form-properti
Product Template Reference	https://docs.pivotal.io/tiledev/2-2/product-template-reference.html
Property Reference	https://docs.pivotal.io/tiledev/2-2/property-reference.html
Tile Generator	https://docs.pivotal.io/tiledev/2-1/tile-generator.html
Example	example-product/metadata/example-product.yml.erb

#### 1.13Online Help Usage

```
kubo@jumper:~$ bosh --help
Usage:
  bosh [OPTIONS] <command>
```

### Application Options:

-v,	version	Show CLI version
	config=	Config file path (default: ~/.bosh/config) [\$BOSH_CONFIG]
-е,	environment=	Director environment name or URL [\$BOSH_ENVIRONMENT]
	ca-cert=	Director CA certificate path or value [\$BOSH_CA_CERT]
	sha2	Use SHA256 checksums [\$BOSH_SHA2]
	parallel=	The max number of parallel operations (default: 5)
	client=	Override username or UAA client [\$BOSH_CLIENT]
	client-secret=	Override password or UAA client secret [\$BOSH_CLIENT_SECRET]
-d,	deployment=	Deployment name [\$BOSH_DEPLOYMENT]
	column=	Filter to show only given column(s)
	json	Output as JSON
	tty	Force TTY-like output
	no-color	Toggle colorized output
-n,	non-interactive	Don't ask for user input [\$BOSH_NON_INTERACTIVE]

### Help Options:

-h, --help Show this help message

## A.

delete-config

Available commands:		
add-blob	Add blob	https://bosh.io/docs/cli-v2#add-b
alias-env	Alias environment to save URL and CA certificate	https://bosh.io/docs/cli-v2#alias
attach-disk	Attaches disk to an instance	https://bosh.io/docs/cli-v2#attac
blobs	List blobs	https://bosh.io/docs/cli-v2#blobs
cancel-task	Cancel task at its next checkpoint	https://bosh.io/docs/cli-v2#cance
clean-up	Clean up releases, stemcells, disks, etc.	https://bosh.io/docs/cli-v2#clean
cloud-check	Cloud consistency check and interactive repair	https://bosh.io/docs/cli-v2#cloud
cloud-config	Show current cloud config	https://bosh.io/docs/cli-v2#cloud
config	Show current config for either ID or both type and	<pre>name https://bosh.io/docs/cli-v2#</pre>
configs	List configs	https://bosh.io/docs/cli-v2#confi
cpi-config	Show current CPI config	https://bosh.io/docs/cli-v2#cpi-c
create-env	Create or update BOSH environment	https://bosh.io/docs/cli-v2#creat
create-release	Create release	https://bosh.io/docs/cli-v2#creat

Delete config

https://bosh.io/docs/cli-v2#delet

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delete-deployment	Delete deployment
delete-disk	Delete disk
delete-env	Delete BOSH environment
delete-release	Delete release
delete-snapshot	Delete snapshot
delete-snapshots	Delete all snapshots in a deployment
delete-stemcell	Delete stemcell
delete-vm	Delete VM
deploy	Update deployment
deployment	Show deployment information
deployments	List deployments
diff-config disks	Diff two configs by ID List disks
environment	Show environment
environments	List environments
errands	List errands
event	Show event details
events	List events
export-release	Export the compiled release to a tarball
finalize-release	Create final release from dev release tarball
generate-job	Generate job
generate-package	Generate package
help	Show this help message
ignore	Ignore an instance
init-release	Initialize release
inspect-release	List release contents such as jobs
instances	List all instances in a deployment
interpolate	Interpolates variables into a manifest
locks	List current locks
log-in	Log in
log-out	Log out
logs	Fetch logs from instance(s)
manifest	Show deployment manifest
orphan-disk recreate	Orphan disk Recreate instance(s)
releases	List releases
remove-blob	Remove blob
repack-stemcell	Repack stemcell
reset-release	Reset release
restart	Restart instance(s)
run-errand	Run errand
runtime-config	Show current runtime config
scp	SCP to/from instance(s)
snapshots	List snapshots
ssh	SSH into instance(s)
start	Start instance(s)
stemcells	List stemcells
stop	Stop instance(s)
sync-blobs	Sync blobs
take-snapshot	Take snapshot
task	Show task status and start tracking its output
tasks	List running or recent tasks
unignore	Unignore an instance
update-cloud-config	Update current cloud config
update-config	Update config
update-cpi-config	Update current CPI config Enable/disable resurrection
<pre>update-resurrection update-runtime-config</pre>	Update current runtime config
upload-blobs	Upload blobs
abioda piopp	obtown propp

upload-releaseUpload releasehttps://bosh.io/docs/cli-v2#uploadupload-stemcellUpload stemcellhttps://bosh.io/docs/cli-v2#uploadvariablesList variableshttps://bosh.io/docs/cli-v2#variadvendor-packagehttps://bosh.io/docs/cli-v2#vendodvmsList all VMs in all deploymentshttps://bosh.io/docs/cli-v2#vms

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Succeeded

#### 1.14 More Resources

https://github.com/bosh-tips/tips

http://engineering.pivotal.io/post/compiled-releases-for-pipelines/

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