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
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 V
Cloud ID (CID)	ID returned from the Cloud identifying particular resource such as VM or disk.
Stemcells	A generic VM image that BOSH clones and configures during deployment. link: stemcell
Deployment	An encapsulation of software and configuration that BOSH can deploy to the cloud.
Jobs	
Tile	
Release	
Bosh Errand	A short-lived job that can be triggered by an operator any time after the deploy.
Bosh Event	Actions taken by the Director (via user or system control) are recorded as events
Manifest	A YAML file that identifies one or more releases, stemcells and configurations
Operations file (ops file)	A YAML file that includes multiple operations to be applied to a different YAML file.
Director Blobstore	A repository where BOSH stores release artifacts, logs, stemcells, and other content, etc
BBR (bosh-backup-and-restore)	link: bosh-backup-and-restore
Bosh Jumpbox	A VM that acts as a single access point for the Director and deployed VMs.
bbl (bosh-bootloader)	GitHub: bosh-bootloader
Link	https://bosh.io/docs/terminology

1.2 Bosh Basic

Name	Command
bosh	apt install bosh-cli, link: pivotal bosh command
Interpolates variables	bosh int /tmp/build/4dc76cXXX/pks-lock/metadatapath=/ops_manager/username link
Delete a deployment	bosh delete-deployment -d wf-deployment-0-7-0-dev-4
bosh log	/var/vcap/bosh/log
List all bosh deployments	bosh -n deployments
Download log files	bosh -d \$deployment_id logs
Show deployment manifest	bosh manifest -d \$deployment
bosh config	bosh cloud-config, bosh configs
List environment	bosh env, bosh envjson
List all instances	bosh instances
Get vms per deployment	bosh -e \$env -d \$deployment vms, bosh instances
Cloud consistency check	bosh cloud-check -d \$deployment
List disks	bosh disks -o

1.3 Bosh VM

Name	Command
List vms	bosh vms
Delete a vm	bosh delete-vm -d service-instance_c4b06291-XXX 35043957-XXX
SSH to vm	bosh -e 192.168.30.52 -d \$deployment ssh \$vm

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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> > my.yaml</deployment></pre>
Run bosh deployment from yaml	bosh deploy -d <deployment> my.yaml</deployment>

1.5 Bosh Tasks

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

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

1.8 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/instan</errand_name></deployment>

1.9 Bosh Stemcell

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

1.10 Bosh Tile

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Name	Command
Forms Reference	https://docs.pivotal.io/tiledev/2-1/product-template-reference.html#form-properties
Example	example-product/metadata/example-product.yml.erb
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
stemcells	https://bosh.io/stemcells/, Download link

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Bosh related Tools 1.11

Name	Comment
kiln	Kiln helps you maintain tile metadata. link
monit: List bosh deployed daemon processes	monit summary
monit: Restart a given daemon processes	<pre>monit restart <pre>cess_name></pre></pre>

1.12Ops 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

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

Available commands:

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	d name https://bosh.io/docs/cli-v2#

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update-config Update config update-cpi-config Update current CPI config update-resurrection Enable/disable resurrection update-runtime-config Update current runtime config Upload blobs upload-blobs upload-release Upload release upload-stemcell Upload stemcell variables List variables vendor-package Vendor package List all VMs in all deployments

https://bosh.io/docs/cli-v2#updathttps://bosh.io/docs/cli-v2#updathttps://bosh.io/docs/cli-v2#updathttps://bosh.io/docs/cli-v2#updathttps://bosh.io/docs/cli-v2#updathttps://bosh.io/docs/cli-v2#uploahttps://bosh.io/docs/cli-v2#uploahttps://bosh.io/docs/cli-v2#uploahttps://bosh.io/docs/cli-v2#variahttps://bosh.io/docs/cli-v2#variahttps://bosh.io/docs/cli-v2#vendo

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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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