# 1 CheatSheet: Cloudfoundry Tile & OpsManager

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- PDF Link: cheatsheet-tile-A4.pdf, Category: vmware
- ullet Blog URL: https://cheatsheet.dennyzhang.com/cheatsheet-tile-A4
- Related posts: PKS CheatSheet, Bosh CheatSheet, #denny-cheatsheets

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#### 1.1 om - Basic

Name	Command
om	A command-line API client for Pivotal Operations Manager
omcli	export passwd='CHANGEME'; alias omcli="om -t https://30.0.0.5 -u admin -p \$pa
Get uaa admin password	<pre>omcli curl -p /api/v0/deployed/products/\${bosh_deployment}/credentials/.pr</pre>
Get bosh connect credential	omcli curl -p /api/v0/deployed/director/credentials/bosh_commandline_crede
List all installed tiles	omcli curl -p /api/v0/installations
Upload tile to opsmanager via cli	omcli upload-product -p
Upload stemcell to opsmanager via cli	omcli upload-stemcell -s
Use pivnet cli to download stemcell	Once pivnet login, pivnet download-product-files -p stemcells-ubuntu-xenial
Show status of apply changes	omcli installation-logid 2, omcli installation-logid \$installation_id
List all properties for a deployment	bosh deployments, omcli curl -p /api/v0/staged/products/\${bosh_deployment}/
json output	omcli -kformat=json staged-products
Reference	PKS CheatSheet, Bosh CheatSheet, Tile CheatSheet, UAA CheatSheet

### 1.2 Get bosh/pks tile credential from om

Name	Summary
bosh tile -> Bosh Commandline Credentials	omcli curl -p /api/v0/deployed/director/credentials/bosh2_command
Get ops-manager ca cert	omcli curl -p /api/v0/certificate_authorities
pks tile -> Uaa Admin Password	<pre>omcli curl -p /api/v0/deployed/products/\${bosh_deployment}/credent</pre>
pks tile -> Pks Uaa Management Admin Client	<pre>omcli curl -p /api/v0/deployed/products/\${bosh_deployment}/credent</pre>
pks tile - $>$ api server FQDN	<pre>omcli curl -p /api/v0/deployed/products/\${bosh_deployment}/credent</pre>
pks tile - $>$ pks certificates	<pre>omcli curl -p /api/v0/deployed/products/\${bosh_deployment}/credent</pre>
pks tile -> whether wavefront is enabled	<pre>omcli curl -p /api/v0/deployed/products/\${bosh_deployment}/credent</pre>
pks tile -> wavefront token	<pre>omcli curl -p /api/v0/deployed/products/\${bosh_deployment}/credent</pre>

### 1.3 om product

Name	Summary
Upload tile from cli	omcli upload-product -p
List products	omcli curl -s -p /api/v0/staged/products
List all available products	omcli available-products, or omcli curl -p /api/v0/available_products
List all deployed products	omcli deployed-products
Delete all unused products	omcli delete-unused-products
Delete product	omcli -k delete-product -p pivotal-container-service -v 1.3.0-build.3
Unstage product	omcli -k unstage-product -p pivotal-container-service
Stage product	omcli -k stage-product -p pivotal-container-service -v 1.3.0-build.3

## 1.4 pivnet-cli

Name	Comment	
pivnet	CLI to interact with Pivotal Network. Install pivnet CLI	
pivnet login	pivnet loginapi-token \$your_token	
pivnet download stemcell	pivnet download-product-files -p stemcells-ubuntu-xenial -r 170.9 -g '*vsphere*' -d /	
List all products	pivnet products	
Show product info	pivnet product -p pivotal-container-service	

## 1.5 Tile Challenges

Name	Comment
Tiles are big	It's usually GBs. Too big to distribute
In Opsmanager, can't cancel task	Costly to make mistakes
In Opsmanager, can't downgrade	Inconvenient for development cycle
In Opsmanager, review changes is confusing	The review feature should be more informative
Slow to apply changes	Usually it takes hours, while minutes in <b>kubernetes</b>

#### 1.6 Tile Reference

Name	Command
kiln	A command line tool to help you maintain tile metadata. Download kiln
Example	example-product/metadata/example-product.yml.erb
nozzle	
firehose	
service broker	
buildpack	
Reference	Forms Reference, Product Template Reference, Property Reference, Tile Generator

## 1.7 Ops manager

Name	Command
Release folder	/var/tempest/releases
Restart Ops Manager	service tempest-web start, service tempest-web stop
Grant file access	<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

## 1.8 om cli Online Help

```
> om --help om helps you interact with an Ops Manager
```

```
Usage: om [options] <command> [<args>]
```

client-id, -c	${ t string}$	Client ID for the Ops Manager VM (not required for unauthenticated comma
client-secret, -s	string	Client Secret for the Ops Manager VM (not required for unauthenticated c
connect-timeout, -o	int	timeout in seconds to make TCP connections (default: 5)
format, -f	string	Format to print as (options: table, json) (default: table)
help, -h	bool	prints this usage information (default: false)
password, -p	string	admin password for the Ops Manager VM (not required for unauthenticated
request-timeout, -r	int	timeout in seconds for HTTP requests to Ops Manager (default: 1800)
skip-ssl-validation, -k	bool	skip ssl certificate validation during http requests (default: false)
target, -t	string	location of the Ops Manager VM
trace, -tr	bool	prints HTTP requests and response payloads
username, -u	string	admin username for the Ops Manager VM (not required for unauthenticated
version, -v	bool	prints the om release version (default: false)

#### Commands:

activate-certificate-authority	activates a certificate authority on the Ops Manager
apply-changes	triggers an install on the Ops Manager targeted
available-products	list available products
certificate-authorities	lists certificates managed by Ops Manager
certificate-authority	prints requested certificate authority
config-template	**EXPERIMENTAL** generates a config template for the product
configure-authentication	configures Ops Manager with an internal userstore and admin user account
configure-bosh	**DEPRECATED** configures Ops Manager deployed bosh director
configure-director	configures the director
configure-product	configures a staged product
configure-saml-authentication	configures Ops Manager with SAML authentication

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creates a certificate authority on the Ops Manager create-certificate-authority create-vm-extension creates a VM extension credential-references list credential references for a deployed product credentials fetch credentials for a deployed product curl issues an authenticated API request deletes a certificate authority on the Ops Manager delete-certificate-authority delete-installation deletes all the products on the Ops Manager targeted delete-product deletes a product from the Ops Manager deletes unused products on the Ops Manager targeted delete-unused-products deployed-manifest prints the deployed manifest for a product deployed-products lists deployed products errands list errands for a product exports the installation of the target Ops Manager export-installation generate-certificate generates a new certificate signed by Ops Manager's root CA generate-certificate-authority generates a certificate authority on the Opsman prints this usage information imports a given installation to the Ops Manager targeted import-installation installation-log output installation logs installations list recent installation events lists pending changes pending-changes regenerate-certificates deletes all non-configurable certificates in Ops Manager... revert-staged-changes reverts staged changes on the Ops Manager targeted set-errand-state sets state for a product's errand stage-product stages a given product in the Ops Manager targeted staged-config \*\*EXPERIMENTAL\*\* generates a config from a staged product prints the staged manifest for a product staged-manifest staged-products lists staged products unstage-product unstages a given product from the Ops Manager targeted upload-product uploads a given product to the Ops Manager targeted upload-stemcell uploads a given stemcell to the Ops Manager targeted version prints the om release version pivnet cli Online Help 1.9 > pivnet --help Usage: pivnet [OPTIONS] <command> Application Options: Print the version of this CLI and exit -v, --version --format=[table|json|yaml] Format to print as (default: table) --verbose Display verbose output Name of profile (default: default) --profile= --config= Path to config file (default: /Users/zdenny/.pivnetrc) Help Options: -h, --help Show this help message Available commands: accept-eula Accept EULA (Available for pivots only) (aliases: ae) add-file-group Add file group to release (aliases: afg) Add product file to release (aliases: apf) add-product-file add-release-dependency Add release dependency (aliases: ard) add-release-upgrade-path Add release upgrade path (aliases: arup) Add user group to release (aliases: aug) add-user-group Add user group member to group (aliases: augm) add-user-group-member create-dependency-specifier Create dependency specifier (aliases: cds) Create file group (aliases: cfg)

Create product file (aliases: cpf)

create-file-group

create-product-file

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Create release (aliases: cr) create-release Create user group (aliases: cug) create-user-group curl Curl an endpoint (aliases: c) Delete dependency specifier (aliases: dds) delete-dependency-specifier Delete file group (aliases: dfg) delete-file-group delete-product-file Delete product file (aliases: dpf) delete-release Delete release (aliases: dr) delete-user-group Delete user group (aliases: dug) Get dependency specifier (aliases: ds) dependency-specifier dependency-specifiers List dependency specifiers (aliases: dss) Download product files (aliases: dlpf) download-product-files eula Show EULA (aliases: e) List EULAs (aliases: es) eulas file-group Show file group (aliases: fg) List file groups (aliases: fgs) file-groups Print this help message (aliases: h) help Log in to Pivotal Network. (aliases: 1) login Log out from Pivotal Network. logout Show product (aliases: p) product Show product file (aliases: pf) product-file List product files (aliases: pfs) product-files products List products (aliases: ps) Show release (aliases: r) release List release dependencies (aliases: rds) release-dependencies List release types (aliases: rts) release-types List release upgrade paths (aliases: rups) release-upgrade-paths List releases (aliases: rs) releases Remove file group from release (aliases: rfg) remove-file-group remove-product-file Remove product file from release (aliases: rpf) remove-release-dependency Remove release dependency (aliases: rrd) remove-release-upgrade-path Remove release upgrade path (aliases: rrup) Remove user group from release (aliases: rug) remove-user-group remove-user-group-member Remove user group member from group (aliases: rugm) Update file group (aliases: ufg) update-file-group update-product-file Update product file (aliases: upf) Update release (aliases: ur) update-release Update user group (aliases: uug) update-user-group Show user group (aliases: ug) user-group user-groups List user groups (aliases: ugs) Print the version of this CLI and exit (aliases: v) version

#### 1.10 More Resources

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