

CheatSheet: Cloudfoundry Tile & OpsManager

VMWARE

- PDF Link: [cheatsheet-tile-A4.pdf](#), Category: vmware
- 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	alias omcli="om -t https://30.0.0.5 -u admin -p <password> -k"
Upload stemcell from cli	omcli upload-stemcell -s </path/stemcell.tgz>
Upload tile from cli	omcli upload-product -p </path/myproduct.pivotal>
List all properties for a deployment	bosh deployments, omcli curl -p /api/v0/staged/products/\${bosh_deployment}/pr
List all installed tiles	omcli curl -p /api/v0/installations
json output	omcli -k --format=json staged-products

1.2 om product

Name	Summary
Upload tile from cli	omcli upload-product -p </path/myproduct.pivotal>
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

1.3 pivnet-cli

Name	Comment
pivnet	CLI to interact with Pivotal Network. Install pivnet CLI
pivnet login	pivnet login --api-token <your_token>
pivnet download stemcell	pivnet download-product-files -p stemcells-ubuntu-xenial -r 170.9 -g '*vsphere*' -d /

1.4 Get bosh/pks tile credential from om

Name	Summary
bosh tile -> Bosh Commandline Credentials	omcli curl -p /api/v0/deployed/director/credentials/bosh2_commandl
Get ops-manager ca cert	omcli curl -p /api/v0/certificate_authorities
pks tile -> Uaa Admin Password	omcli curl -p /api/v0/deployed/products/\${bosh_deployment}/credent
pks tile -> Pks Uaa Management Admin Client	omcli curl -p /api/v0/deployed/products/\${bosh_deployment}/credent
pks tile -> api server FQDN	omcli curl -p /api/v0/deployed/products/\${bosh_deployment}/credent
pks tile -> pks certificates	omcli curl -p /api/v0/deployed/products/\${bosh_deployment}/credent
pks tile -> whether wavefront is enabled	omcli curl -p /api/v0/deployed/products/\${bosh_deployment}/credent
pks tile -> wavefront token	omcli curl -p /api/v0/deployed/products/\${bosh_deployment}/credent
Reference	PKS CheatSheet, Bosh CheatSheet

1.5 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

1.6 Ops manager

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

1.7 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 kubernetes

1.8 om cli Online Help

```
> om --help
```

om helps you interact with an Ops Manager

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

--client-id, -c	string	Client ID for the Ops Manager VM (not required for unauthenticated commands)
--client-secret, -s	string	Client Secret for the Ops Manager VM (not required for unauthenticated commands)
--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 commands)
--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 commands)
--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

create-certificate-authority	creates a certificate authority on the Ops Manager
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
delete-certificate-authority	deletes a certificate authority on the Ops Manager
delete-installation	deletes all the products on the Ops Manager targeted
delete-product	deletes a product from the Ops Manager
delete-unused-products	deletes unused products on the Ops Manager targeted
deployed-manifest	prints the deployed manifest for a product
deployed-products	lists deployed products
errands	list errands for a product
export-installation	exports the installation of the target Ops Manager
generate-certificate	generates a new certificate signed by Ops Manager's root CA
generate-certificate-authority	generates a certificate authority on the Opsman
help	prints this usage information
import-installation	imports a given installation to the Ops Manager targeted
installation-log	output installation logs
installations	list recent installation events
pending-changes	lists 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
staged-manifest	prints the staged manifest for a product
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

1.9 More Resources

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