1 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
Download PCF vsphpere Opsmanager OVA	`https://network.pivotal.io/products/ops-manager`
omcli	export passwd='CHANGEME'; alias omcli="om -t `https://30.0.0.5 -u admin -`
Get uaa admin password	`omcli curl -p /api/v0/deployed/products/${bosh_deployment}/credential`
Get bosh connect credential	`omcli curl -p /api/v0/deployed/director/credentials/bosh_commandline_`
List all installed tiles	`omcli curl -p /api/v0/installations`
Upload tile to opsmanager via cli	`omcli upload-product -p </path/myproduct.pivotal>`
Upload stemcell to opsmanager via cli	`omcli upload-stemcell -s </path/mystemcell.tgz>`
Use pivnet cli to download stemcell	Once `pivnet login`, `pivnet download-product-files -p stemcells-ubuntu-x`
Show status of apply changes	`omcli installation-log --id 2`, `omcli installation-log --id $installati`
List all properties for a deployment	`bosh deployments`, `omcli curl -p /api/v0/staged/products/${bosh_deploym`
json output	`omcli -k --format=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_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`

1.3 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`

1.4 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 /`
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 **kubernetes**

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	`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`

1.8   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 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
```

```
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   pivnet cli Online Help

```
> pivnet --help
Usage:
  pivnet [OPTIONS] <command>

Application Options:
  -v, --version                 Print the version of this CLI and exit
      --format=[table|json|yaml] Format to print as (default: table)
      --verbose                 Display verbose output
      --profile=                Name of profile (default: default)
      --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              Add product file to release (aliases: apf)
  add-release-dependency        Add release dependency (aliases: ard)
  add-release-upgrade-path      Add release upgrade path (aliases: arup)
  add-user-group                Add user group to release (aliases: aug)
  add-user-group-member         Add user group member to group (aliases: augm)
  create-dependency-specifier   Create dependency specifier (aliases: cds)
  create-file-group             Create file group (aliases: cfg)
  create-product-file           Create product file (aliases: cpf)
```

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

1.10   More Resources

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