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

File me Issues or star this repo.

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 $pas
Upload tile to opsmanager via cli	`omcli upload-product -p </path/myproduct.pivotal>`
Upload stemcell to opsmanager via cli	`omcli upload-stemcell -s </path/stemcell.tgz>`
List all properties for a deployment	`bosh deployments, omcli curl -p /api/v0/staged/products/${bosh_deployment}/`
Get uaa admin password	`omcli curl -p /api/v0/deployed/products/${bosh_deployment}/credentials/.pr`
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`
Show status of apply changes	`omcli installation-log --id 2, omcli installation-log --id $installation_i`
json output	`omcli -k --format=json staged-products`
Reference	PKS CheatSheet, Bosh CheatSheet, Tile CheatSheet, UAA CheatSheet

1.2   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**

1.3   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   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

1.6   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 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

1.8   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

License: Code is licensed under MIT License.