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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