1 CheatSheet: Cloudfoundry Tile & OpsManager

 $\mathbf{V}\mathbf{M}\mathbf{W}\mathbf{A}\mathbf{R}\mathbf{E}$

Updated: February 1, 2020

- PDF Link: cheatsheet-tile-A4.pdf, Category: vmware
- Blog URL: https://cheatsheet.dennyzhang.com/cheatsheet-tile-A4
- \bullet 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 |
| 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 | <pre>omcli upload-product -p </pre> |
| 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-x |
| Show status of apply changes | omcli installation-logid 2, omcli installation-logid \$installati |
| List all properties for a deployment | bosh deployments, omcli curl -p /api/v0/staged/products/\${bosh_deployments |
| 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 | omcli curl -p /api/v0/deployed/products/\${bosh_deployment}/credenter |
| pks tile -> Pks Uaa Management Admin Client | omcli curl -p /api/v0/deployed/products/\${bosh_deployment}/credenter |
| pks tile - $>$ api server FQDN | omcli curl -p /api/v0/deployed/products/\${bosh_deployment}/credenter |
| 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 |
| 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

| , |
|--------|
| |
| |
| ' -d / |
| |
| |
| , |

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 | <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 | 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 |

Updated: February 1, 2020

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

create-file-group

create-product-file

```
> 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 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

License: Code is licensed under MIT License.