

lilpenguin - Justin's rants & raves:OpenShift Day 2 - Ops CheatSheet

Posted by [Justin Pittman](#) Sep 12, 2018

Goal: Drafted for a Partner workshop but can be generalized as a living cheatsheet of Day 2 types Operations for OpenShift cluster mgmt.

Note: some examples apply to OpenShift v3 only.

Consoles

Web

<https://<URL>:<port>/console>

CLI Client, aka "oc"

OpenShift OC Download: from web console

OKD/Origin Download: <https://github.com/openshift/origin/releases>

Config

`$KUBECONFIG | > ~/.kube/config file`

Authorization & Access

Master Config

`> /etc/origin/master/master-config.yaml`

Node Configs:

`> /etc/origin/node/node-config.yaml`

Add role to user

`>oc create clusterrolebinding <NAME_FOR_BINDING> --clusterrole=<PREDEFINED_ROLE> --user=<USERNAME>`

Cluster Survey

Which cluster / who am I?

`> oc status`

`> oc whoami --show-server`

`> oc get node --output wide`

`> oc describe node`

`> oc describe node node5.blackduck.internal`

`> oc get pv`

`> oc describe pv/vol71`

`> oc get hostsubnet`

Cluster State

```
> oc adm top nodes  
> oc adm diagnostics
```

Application / Deployment Troubleshooting

```
oc status -v  
oc logs -f bc/<BUILD_CONFIG>  
oc get pods --output wide  
oc logs pod/<POD_ID>  
oc exec <POD_ID> -- ps -aux
```

watch the status of containers change

```
oc get pods -w
```

get the logs when Pod deploys multiple containers (SideCars, etc.)

```
oc logs pod/<MULTIPLE_POD_ID> -c <CONTAINER_ID>
```

watch/tail the logs of container

```
oc logs pod/<POD_ID> -w
```

Configured Registries

Hosted, internal registry included

/etc/containers/registries.conf

Pulling Docker Images from RH Hosted Registry

RH hosted registry = Red Hat Container Catalog

<https://access.redhat.com/containers/>

Ex:

```
docker search rsyslog | grep redhat.com
```

```
docker --host tcp://registry.access.redhat.com image list
```

Tracing CLI Errors / API Calls

Increase Loglevel

```
-loglevel=8
```

```
> oc whoami --loglevel=8
```

Local Laptop/Workstation Dev/Ops

Minishift / Container Developer Kit

<https://developers.redhat.com/products/cdk/download/>

Setup Docker for OpenShift <https://access.redhat.com/documentation/en-us/>

[red_hat_enterprise_linux_atomic_host/7/html-single/getting_started_with_containers/
#working_with_docker_registries](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux_atomic_host/7/html-single/getting_started_with_containers/#working_with_docker_registries)

References

General Docs

Public Official

<https://docs.openshift.com/>

RH Official (some KBs paywalled)

<https://access.redhat.com>

Public Official OpenShift Docs

<https://docs.openshift.com/container-platform/latest/>

Local Laptop/Workstation Dev/Ops

Setup Docker for OpenShift https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux_atomic_host/7/html-single/getting_started_with_containers/#working_with_docker_registries

Cluster Administration Guide: https://access.redhat.com/documentation/en-us/openshift_container_platform/3.9/html-single/cluster_administration/

OpenShift Container Platform Troubleshooting and How To's

Troubleshooting OpenShift Container Platform: Basics - Red Hat Customer Portal

<https://access.redhat.com/articles/2913431>

Collecting OpenShift Cluster, Master, Node, and Project information

<https://access.redhat.com/solutions/3132761>

Troubleshooting an applications (images) on OpenShift

<https://access.redhat.com/articles/3094821>

eBook - [Deploying to OpenShift: A Guide for Busy Developers](https://www.openshift.com/deploying-to-openshift/)

<https://www.openshift.com/deploying-to-openshift/>

240 Views Tags: [openshift management](#), [ocp](#), [openshift administration](#), [day2](#), [openshift troubleshooting](#)

There are no comments on this post