Cloud Pak for Data 3.0.1 on Managed OpenShift (IBM Cloud)

Date of last update: 06/30/2020
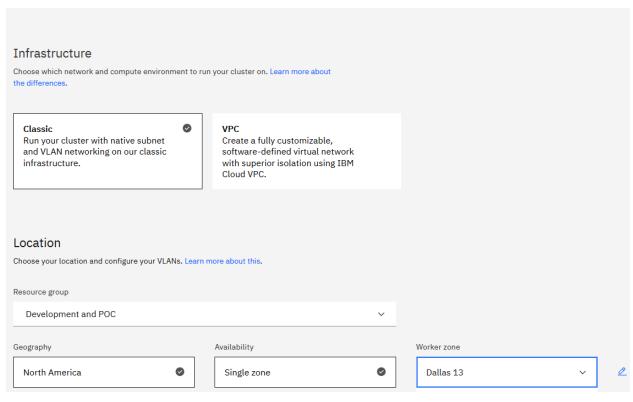
Deployment Steps
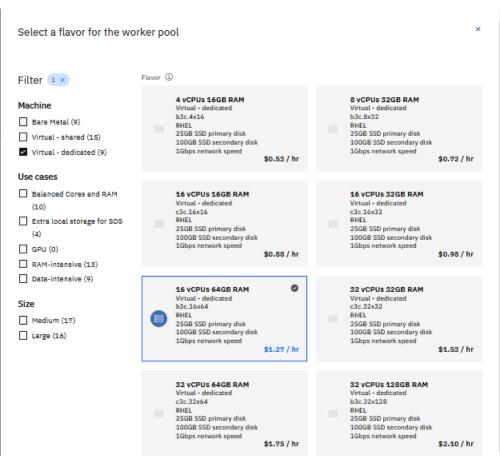
1. Create Managed OpenShift v4.3 cluster
2. Deploy CP4D v3.0.1
3. Create File Storage for Watson Discovery
4. Gather parameter values
5. Configure OpenShift v4.3
6. Create NFS storage class and provisioner
7. Prepare Watson Discovery v2.1.3 installation files
8. Deploy Watson Discovery v2.1.3
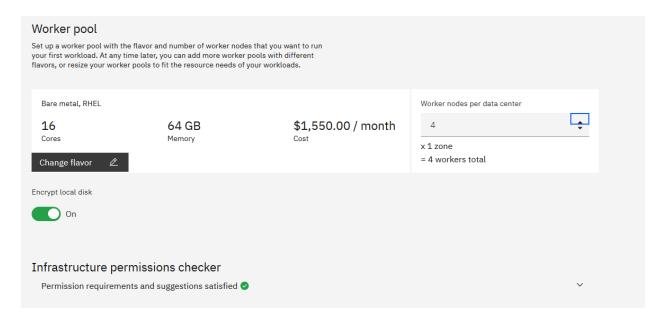9. Launch Watson Discovery

Prerequisites

To deploy Cloud Pak for Data, you must already have a valid license. If your organization has already purchased a valid license, your account administrator must bind the entitlement to your IBM Cloud account before you can assign an entitlement by using the **Create** tab. If your organization has not yet purchased a license, contact your IBM sales representative.

To install Cloud Pak for Data on IBM Cloud, you must have an IBM Red Hat OpenShift Version 4.3.18 or above single-zone classic cluster on IBM Cloud.
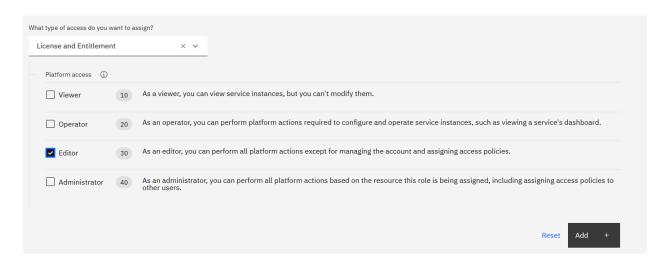
Infrastructure

Choose which network and compute environment to run your cluster on. Learn more about the differences.

Classic ✓	VPC
Run your cluster with native subnet and VLAN networking on our classic infrastructure.	Create a fully customizable, software-defined virtual network with superior isolation using IBM Cloud VPC.

Location

Choose your location and configure your VLANs. Learn more about this.

Resource group

Development and POC ⌄

Geography	Availability	Worker zone
North America ✓	Single zone ✓	Dallas 13 ⌄ ✎

Select a flavor for the worker pool   ✕

Filter 1 ✕

Flavor ⓘ

Machine
- ☐ Bare Metal (9)
- ☐ Virtual - shared (16)
- ☑ Virtual - dedicated (9)

Use cases
- ☐ Balanced Cores and RAM (10)
- ☐ Extra local storage for SDS (4)
- ☐ GPU (0)
- ☐ RAM-intensive (13)
- ☐ Data-intensive (9)

Size
- ☐ Medium (17)
- ☐ Large (16)

4 vCPUs 16GB RAM	**8 vCPUs 32GB RAM**
Virtual - dedicated	Virtual - dedicated
b3c.4x16	b3c.8x32
RHEL	RHEL
25GB SSD primary disk	25GB SSD primary disk
100GB SSD secondary disk	100GB SSD secondary disk
1Gbps network speed	1Gbps network speed
$0.53 / hr	$0.72 / hr

16 vCPUs 16GB RAM	**16 vCPUs 32GB RAM**
Virtual - dedicated	Virtual - dedicated
c3c.16x16	c3c.16x32
RHEL	RHEL
25GB SSD primary disk	25GB SSD primary disk
100GB SSD secondary disk	100GB SSD secondary disk
1Gbps network speed	1Gbps network speed
$0.88 / hr	$0.98 / hr

16 vCPUs 64GB RAM ✓	**32 vCPUs 32GB RAM**
Virtual - dedicated	Virtual - dedicated
b3c.16x64	c3c.32x32
RHEL	RHEL
25GB SSD primary disk	25GB SSD primary disk
100GB SSD secondary disk	100GB SSD secondary disk
1Gbps network speed	1Gbps network speed
$1.27 / hr	$1.53 / hr

32 vCPUs 64GB RAM	**32 vCPUs 128GB RAM**
Virtual - dedicated	Virtual - dedicated
c3c.32x64	b3c.32x128
RHEL	RHEL
25GB SSD primary disk	25GB SSD primary disk
100GB SSD secondary disk	100GB SSD secondary disk
1Gbps network speed	1Gbps network speed
$1.75 / hr	$2.10 / hr

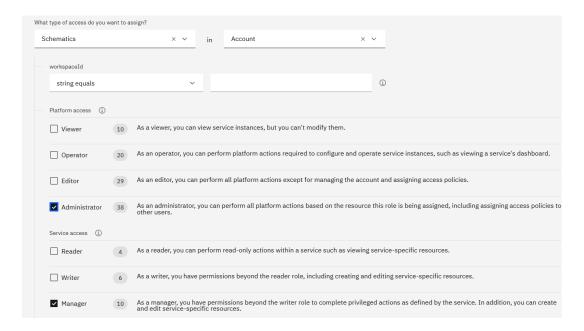(Minimum is 16X64 Virtual Nodes (3 min))

For more information, see [Getting started with Red Hat OpenShift on IBM Cloud](#).

To install Cloud Pak for Data on IBM Cloud, a user must have the following IAM Roles:

- Account Management > License and Entitlement > Platform Editor role - To assign license

- IAM Services > Schematics > Service Manager role in any resource group - To create workspace

o Classic Infrastructure > Services > Storage Manage, Classic Infrastructure > Account > Add/Upgrade Storage - To modify image registry volume

o IAM Services > Kubernetes Service > Service Manager role - To run pre-install script & Service Writer role - To run Install script

IBM Cloud accounts have a default quota of 250 storage volumes. Before you start the installation, ensure that each account has enough storage volumes for Cloud Pak for Data to be installed.
For more information, see How many volumes can be ordered?.

Make sure the image registry volume size is modified before installation. For more information, see Complete the Preinstallation on the **Create** tab. If the OpenShift cluster image registry has images of other applications, you might need to increase the image registry volume size to more than 200GB.

Resources Required

By default, you provision a **3-node Red Hat OpenShift cluster**. Each node is automatically provisioned with a 25 GB SSD primary disk and 100 GB SSD secondary disk. This disk storage is different from persistent storage.

The minimum recommendation for Cloud Pak for Data is:

- o 16 cores, 64GB RAM
- o 1 TB Persistent storage.

This **minimum recommendation is not enough to install all of the services**. You must ensure that you have sufficient resources for the services that you planned to install.
For more information, see System Requirements for IBM Cloud Pak for Data.

Minimum requirements for Red Hat® OpenShift Container Platform Version 3.11.188 or later fixes:

Node role	Hardware	Number of servers	Available vCPU	Memory
Master + infra	x86-64	1 master and 1 infrastructure on the same node	8 vCPU	32 GB RAM
Worker/compute	x86-64	2 worker/compute nodes for NFS; 3 worker/compute nodes for Portworx	16 vCPU	64 GB RAM

Minimum requirements for Red Hat OpenShift Container Platform Version 4.3.18 or later fixes:

Node role	Hardware	Number of servers	Available vCPU	Memory
Master + infra	x86-64, ppc64le	3 master (for high availability) and 3 infrastructure on the same 3 nodes	4 vCPU	16 GB RAM
Worker/compute	x86-64, ppc64le	3 worker/compute nodes	16 vCPU	64 GB RAM

Supported storage

When you install your Red Hat OpenShift cluster, IBM Cloud File Storage is set up by default. Cloud Pak for Data must use the `ibmc-file-gold-gid` storage class on IBM Cloud File Storage.
For more information, see [Storing data on classic IBM Cloud File Storage](#).

Cloud Pak for Data uses dynamic provisioning. You must have sufficient persistent storage for the services that you plan to install.
For more information, see [System Requirements for IBM Cloud Pak for Data](#).

Consider the storage class `ibmc-file-gold-gid` while provisioning the instances of any service. If you want to retain the volume, consider the storage class `ibmc-file-retain-gold-gid`.
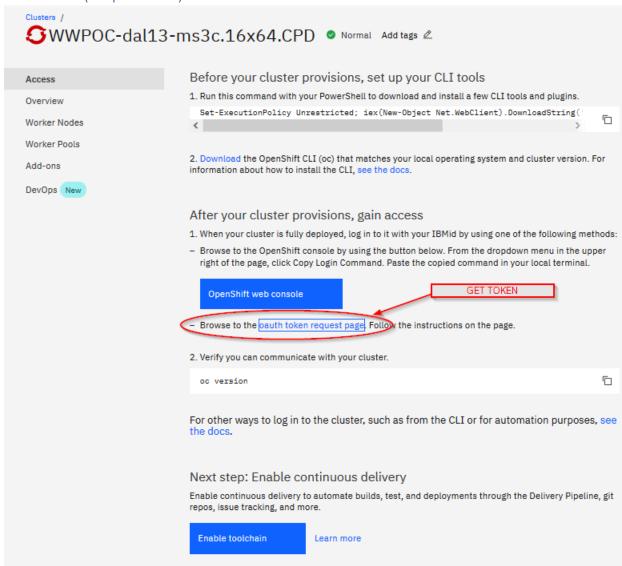
Configuration

When you install Cloud Pak for Data, you can specify which services are on the Cloud Pak for Data control plane. To install a service, set the appropriate parameter to **true** in the **Deployment values** section.

After you install Cloud Pak for Data, log in to the web console with the `admin` username and change the default password `password`. You can launch the web console from the workspace by clicking **Offering Dashboard**.

Tip: If you want to install services to your cluster after you install to the existing deployed namespace, repeat the same steps to install from IBM cloud catalog and set the required service value to **true** in the **Deployment values** section.

Cluster Init (Prep for CPD)

Clusters /

WWPOC-dal13-ms3c.16x64.CPD ✓ Normal   Add tags ✎

Access
Overview
Worker Nodes
Worker Pools
Add-ons
DevOps New

Before your cluster provisions, set up your CLI tools

1. Run this command with your PowerShell to download and install a few CLI tools and plugins.

```
Set-ExecutionPolicy Unrestricted; iex(New-Object Net.WebClient).DownloadString(
```

2. Download the OpenShift CLI (oc) that matches your local operating system and cluster version. For information about how to install the CLI, see the docs.

After your cluster provisions, gain access

1. When your cluster is fully deployed, log in to it with your IBMid by using one of the following methods:

– Browse to the OpenShift console by using the button below. From the dropdown menu in the upper right of the page, click Copy Login Command. Paste the copied command in your local terminal.

OpenShift web console

GET TOKEN

– Browse to the oauth token request page. Follow the instructions on the page.

2. Verify you can communicate with your cluster.

```
oc version
```

For other ways to log in to the cluster, such as from the CLI or for automation purposes, see the docs.

Next step: Enable continuous delivery

Enable continuous delivery to automate builds, test, and deployments through the Delivery Pipeline, git repos, issue tracking, and more.
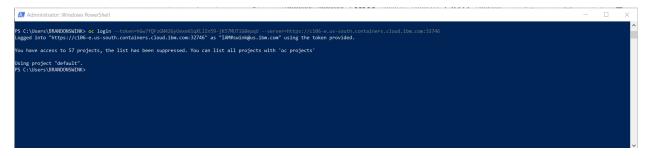
Enable toolchain   Learn more

Your API token is

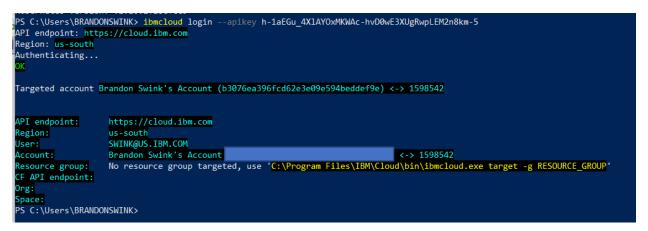XXXXX

Log in with this token

oc login --token=XXXXX --server=https://c106-e.us-south.containers.cloud.ibm.com:32746

Use this token directly against the API

curl -H "Authorization: Bearer XXXX" https://c106-e.us-south.containers.cloud.ibm.com:32746/apis/user.openshift.io/v1/users/~
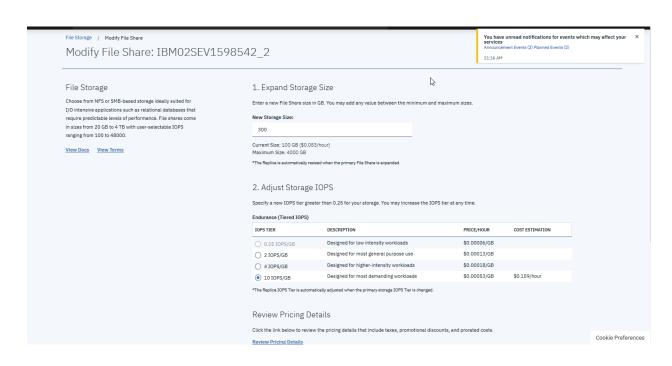
Log in to IBM Cloud (use IAM API Key)

Modify the Storage from 100 to 300 for image capacity via modifyVol.sh or here:
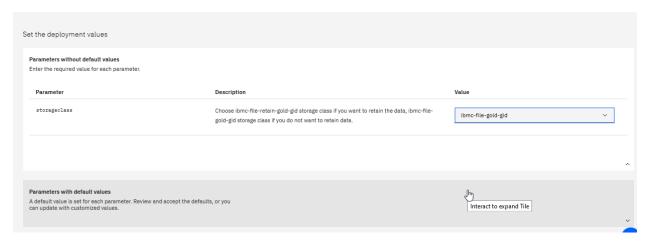(Cloud, Resources, Storage)

Run Pre-Install Script

If you are not a cluster administrator, click **Share link**. Copy the link and share it with your administrator.

Run the following pre-install script in the project that you specified in **Configure your installation environment**.

It has the same effect regardless of the number of times it is run.

Preinstallation script

```
#!/bin/bash

if [[ ${#JOB_NAMESPACE} -eq 0 ]] || [[ ${JOB_NAMESPACE} -gt 8 ]]; then
  echo "The project name cannot be empty or longer than 8 characters"
  exit 1
fi

if [[ ${JOB_NAMESPACE} == "default" ]] || [[ ${JOB_NAMESPACE} ==  "kube-"* ]] || [[ ${JOB_NAMESPACE} == "openshift"* ]] || [[ ${JOB_NAMESPACE} == "calico-"* ]] || [[ ${JOB_NAMESPACE} == "ibm-"*
]] || [[ ${JOB_NAMESPACE} == "tigera-operator" ]]; then
  echo "The project name cannot be default cluster namespaces"
  exit 1
fi

oc create sa cpdinstall -n kube-system
oc create sa cpdinstall -n ${JOB_NAMESPACE}
```

Show more ⌄

✓ **Preinstallation complete:** The script ran successfully on WWPOC-dal13-ms3c.16x64.CPD (us-south). View the logs to
check the status of the script.

[Share link] [Run script]

Set Storage Class

Set the deployment values

Parameters without default values
Enter the required value for each parameter.

Parameter	Description	Value
storageclass	Choose ibmc-file-retain-gold-gid storage class if you want to retain the data, ibmc-file-gold-gid storage class if you do not want to retain data.	ibmc-file-gold-gid ⌄

Parameters with default values
A default value is set for each parameter. Review and accept the defaults, or you can update with customized values.

Interact to expand Tile

Execute Pre-req Script

Install

```
https://zen-cpd-zen.wwpoc-dal13-ms3c-16x64-0ad343091ec26c7d74ad6f88c96f0ee5-
0000.us-south.containers.appdomain.cloud
```

Limitations and known issues

- The installation does not verify whether there are sufficient resources on the cluster to install Cloud Pak for Data. If you are running other applications on your Red Hat OpenShift cluster, ensure that you have sufficient resources on the cluster before you install Cloud Pak for Data.
- The uninstall action deletes the project. Before you delete a project, make sure that the project does not contain any other applications. For more information, see Uninstalling Cloud Pak for Data.
- Cloud Pak for Data includes a subset of services from the IBM cloud catalog. Other supported services on the IBM Managed OpenShift Cluster are: DataStage, MongoDB, Db2 Advanced Edition, Db2 Big SQL, Cognos Analytics and Watson Studio Premium. If you want to install these addons, which are not supported by the IBM Cloud Catalog, they must be added manually.
- You cannot install services from the IBM Cloud Schematics workspace by modifying the plan.
- When service instances are created, they initially appear as Failed or Red because the persistent volume claims take some time to bound.
- The installation does not support on IBM Managed Redhat Openshift Cluster VPC Gen2. It supports only classic Infrastructure.
- It only supports single zone availability.
- The install log has the error `Error verifying current oauth token - Error from server (NotFound)` as install is performed as serviceaccount, can be ignored.

You install Cloud Pak for Data on an IBM Cloud managed OpenShift cluster in transfer mode. The following commands can be used to install any service after 'oc login' to the cluster from a

machine where the OpenShift CLI (oc) v4.3.18 and above compatible client with OpenShift cluster version is installed:

```
./cpd-linux adm --apply --repo <repofile> --assembly <assembly> --namespace
<namespace> --accept-all-licenses

./cpd-linux --repo <repofile> --assembly <assembly> --target-registry-
password $(oc whoami -t) --target-registry-username $(oc whoami) --insecure-
skip-tls-verify --cluster-pull-prefix image-registry.openshift-image-
registry.svc:5000/<namespace> --transfer-image-to $(oc get route -n
openshift-image-registry |tail -1|awk '{print $2}'/<namespace> --namespace
<namespace> -c ibmc-file-gold-gid --accept-all-licenses
```
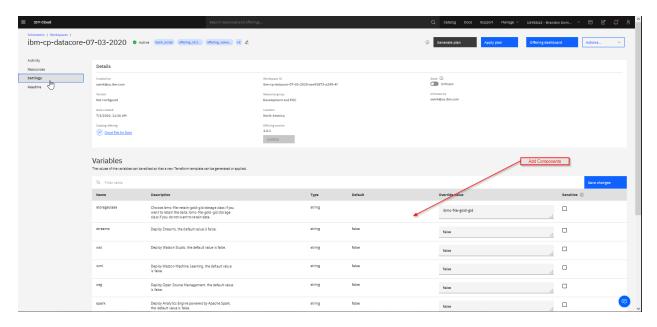
For more information, see [Getting started with the CLI](#).

Add additional services?

https://cloud.ibm.com/schematics/workspaces/ibm-cp-datacore-07-03-2020-aee92873-a249-4f/activity?region=us

storageclass	Choose ibmc-file-retain-gold-gid storage class if you want to retain the data, ibmc-file-gold-gid storage class if you do not want to retain data.	string	**storageclass** `ibmc-file-gold-gid` ☐
streams	Deploy Streams. the default value is false.	string false	**streams** `false` ☐
wsl	Deploy Watson Studio. the default value is false.	string false	**wsl** `false` ☐
wml	Deploy Watson Machine Learning. the default value is false.	string false	**wml** `false` ☐
osg	Deploy Open Source Management. the default value is false.	string false	**osg** `false` ☐
spark	Deploy Analytics Engine powered by Apache Spark. the default value is false.	string false	**spark** `false` ☐
aiopenscale	Deploy Watson Open Scale. the default value is false.	string false	**aiopenscale** `false` ☐
cde	Deploy Analytics Dashboard. the default value is false.	string false	**cde** `false` ☐
db2wh	Deploy DB2 Warehouse. the default value is false.	string false	**db2wh** `false` ☐
wkc	Deploy Watson Knowledge Catalog. the default value is false.	string false	**wkc** `false` ☐
dv	Deploy Data Virtualization. the default value is false.	string false	**dv** `false` ☐
rstudio	Deploy RStudio. the default value is false.	string false	**rstudio** `false` ☐

Documentation

Documentation for IBM Cloud Pak for Data Version 3.0.1 is available in IBM Knowledge Center at
https://www.ibm.com/support/knowledgecenter/SSQNUZ_3.0.1/cpd/overview/welcome.html.

Assistant

Code: http://icpfs1.svl.ibm.com/zen/cp4d-builds/3.0.1/local/components/ibm-watson-assistant/final/

Instructions: https://github.ibm.com/watson-deploy-configs/conversation/blob/wa-icp-1.4.2/templates/icp.d/stable/ibm-watson-assistant-prod-bundle/charts/ibm-watson-assistant-prod/README.md

Watson Discovery

Code: http://icpfs1.svl.ibm.com/zen/cp4d-builds/3.0.1/local/components/watson-discovery/2.1.3/

Instructions: https://github.ibm.com/Watson-Discovery/do/wiki/Installing-Discovery-(Entitled-Registry)#Manual

Documentation:

http://earth1.fyre.ibm.com:9081/support/knowledgecenter/SSQNUZ_3.0.0/cpd/svc/watson/discovery-install-overview.html
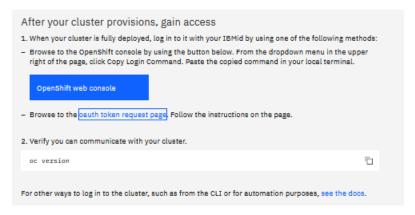
Speech

Code: http://icpfs1.svl.ibm.com/zen/cp4d-builds/3.0.1/local/components/watson-speech/latest/

Instructions: https://github.ibm.com/watson-deploy-configs/speech/blob/cp4d-master-case/icp.d/stable/ibm-watson-speech-prod-case-bundle/charts/ibm-watson-speech-prod/README.md

Installing Watson Discovery Services

Make Sure you have a Current oAuth Token for Your Cluster

https://c106-e.us-south.containers.cloud.ibm.com:30086/oauth/token/display

After your cluster provisions, gain access

1. When your cluster is fully deployed, log in to it with your IBMid by using one of the following methods:
   - Browse to the OpenShift console by using the button below. From the dropdown menu in the upper right of the page, click Copy Login Command. Paste the copied command in your local terminal.

   OpenShift web console

   - Browse to the oauth token request page. Follow the instructions on the page.

2. Verify you can communicate with your cluster.

   ```
   oc version
   ```

For other ways to log in to the cluster, such as from the CLI or for automation purposes, see the docs.

Get Software Key:

https://myibm.ibm.comand/ or https://myibm.ibm.com/products-services/containerlibrary

Create NFS
```
oc patch configs.imageregistry.operator.openshift.io/cluster --type
merge -p '{"spec":{"defaultRoute":true}}'

# You need to login to some Linux server where you can run oc cli and
some command remotely
export NFSNS=zen
export NFSHOST=${NFS_HOST}
export NFSPATH=${NFS_PATH}
export OCLOGIN=${OC_LOGIN}
mkdir ~/wd213 cd ~/wd213 curl -L -o kubernetes-incubator.zip
https://github.com/kubernetes-incubator/external-
storage/archive/master.zip
unzip kubernetes-incubator.zip
cd external-storage-master/nfs-client
sed -i"" "s/namespace:.*/namespace: $NFSNS/g" ./deploy/rbac.yaml
sed -i"" "s/namespace:.*/namespace: $NFSNS/g" ./deploy/deployment.yaml
sed -i"" "s/value: 10.10.10.60/value: $NFSHOST/g"
./deploy/deployment.yaml
sed -i"" "s/server: 10.10.10.60/server: $NFSHOST/g"
./deploy/deployment.yaml
sed -i"" "s|value: /ifs/kubernetes|value: $NFSPATH|g"
./deploy/deployment.yaml
sed -i"" "s|path: /ifs/kubernetes|path: $NFSPATH|g"
./deploy/deployment.yaml
${OCLOGIN}
oc new-project $NFSNS
oc create -f ./deploy/rbac.yaml
```

```
oc adm policy add-scc-to-user hostmount-anyuid
system:serviceaccount:$NFSNS:nfs-client-provisioner
oc create -f ./deploy/class.yaml
oc create -f ./deploy/deployment.yaml
```
Set Env Variables

You need to login to some Linux server where you can run oc cli and some command remotely

```
export PATH="/mnt/c/DownloadDirector/oc:$PATH"
export CLUSTER_HOST=wwpoc-dal13-ms3c-16x64-
0ad343091ec26c7d74ad6f88c96f0ee5-0000.us-
south.containers.appdomain.cloud
export IMAGE_REGISTRY=image-registry-openshift-image-registry.wwpoc-
dal13-ms3c-16x64-0ad343091ec26c7d74ad6f88c96f0ee5-0000.us-
south.containers.appdomain.cloud
export NFS_HOST=fsf-dal1301e-fz.adn.networklayer.com
export NFS_PATH=/IBM02SEV1598542_12/data01
export OC_LOGIN='oc login --token=M40jhyIW4M6yenx-
1dgVu0mwwk9WP5HcnoPTC28Shrg --server=https://c106-e.us-
south.containers.cloud.ibm.com:32746'
export CPD_KEY=XXXXX
export NFSNS=zen
export NFSHOST=${NFS_HOST}
export NFSPATH=${NFS_PATH}
export OCLOGIN=${OC_LOGIN}
export CPDKEY=${CPD_KEY}
export IMAGEREGISTRY=${IMAGE_REGISTRY}


# You need to login to some Linux server where you can run oc cli and
docker command remotely. export OCLOGIN=${OC_LOGIN} export

IMAGEREGISTRY=${IMAGE_REGISTRY}
cd ~/wd213 ${OCLOGIN}
sudo podman login -u $(oc whoami) -p $(oc whoami -t) --tls-
verify=false ${IMAGEREGISTRY}
sudo bin/cpd-linux adm --repo ~/wd213/repo.cp4d301_wd213.yaml -a
watson-discovery -n zen --apply
KUBERNETES_SERVICE_PORT=443
DISABLE_AUTO_UPDATE=false
KUBERNETES_PORT_53_TCP_PORT=53
HOSTNAME=ibm-content-mgmt-script-pod-2cb79525-3c3a-4329-8c5f-
6500616adec
PUBLIC_SERVICE_ENDPOINT_URL=https://c106-e.us-
south.containers.cloud.ibm.com:30009
SERVICE_SUBNET=172.21.0.0/16
MODIFIED_DATE=2020-05-09T16:57:43+0000
KUBERNETES_PORT_53_UDP_PORT=53
MASTER_STATE=deployed
TYPE=openshift
NAME=mycluster.dev.test.poc
PWD=/home/ibm
VLANS=[]
```

MASTER_STATUS_MODIFIED_DATE=2020-05-09T17:40:18+0000
TZ=America/New_York
MASTER_STATUS=Ready
WORKER_ZONES=[dal10]
KUBERNETES_PORT_53_TCP=tcp://172.21.0.1:53
KUBERNETES_PORT_53_UDP=udp://172.21.0.1:53
CREATED_DATE=2020-05-09T16:56:55+0000
WORKER_COUNT=3
HOME=/home/ibm
LANG=en_US.UTF-8
INGRESS_SECRET_NAME=myclusterdevtestpoc-
0ad343091ec26c7d74ad6f88c96f0ee5-0000
KUBERNETES_PORT_443_TCP=tcp://172.21.0.1:443
SERVER_URL=https://c106-e.us-south.containers.cloud.ibm.com:30009
MULTI_AZ_CAPABLE=true
JOB_CLUSTER_NAME=mycluster.dev.test.poc
TRAVIS_BRANCH=ypprod
KUBERNETES_SERVICE_PORT_DNS=53
ID=bqre1lqd06bj2ajpk050
MASTER_KUBE_VERSION=3.11.200_1548_openshift
KUBERNETES_PORT_53_TCP_PROTO=tcp
TERM=xterm
DATA_CENTER=dal10
KUBERNETES_SERVICE_PORT_DNS_TCP=53
KEY_PROTECT_ENABLED=false
PULL_SECRET_APPLIED=true
SHLVL=1
JOB_NAMESPACE=zen
KUBERNETES_PORT_443_TCP_PROTO=tcp
POD_SUBNET=172.30.0.0/16
PRIVATE_SERVICE_ENDPOINT_ENABLED=false
KUBERNETES_PORT_443_TCP_ADDR=172.21.0.1
ADDONS=[]
KUBERNETES_PORT_53_UDP_ADDR=172.21.0.1
LogLevel=DEBUG
PUBLIC_SERVICE_ENDPOINT_ENABLED=true
KUBERNETES_SERVICE_HOST=172.21.0.1
KUBERNETES_PORT_53_TCP_ADDR=172.21.0.1
KUBERNETES_PORT=tcp://172.21.0.1:443
RESOURCE_GROUP=65fde0edc9a54d698ff90622a82ff372
KUBERNETES_PORT_443_TCP_PORT=443
KUBERNETES_PORT_53_UDP_PROTO=udp
STATE=normal
RESOURCE_GROUP_NAME=Development and POC
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
INGRESS_HOSTNAME=myclusterdevtestpoc-0ad343091ec26c7d74ad6f88c96f0ee5-
0000.us-south.containers.appdomain.cloud
JOB_ID=2cb79525-3c3a-4329-8c5f-6500616adec0-global-preinstall
CRN=crn:v1:bluemix:public:containers-kubernetes:us-
south:a/b3076ea396fcd62e3e09e594beddef9e:bqre1lqd06bj2ajpk050::
LOCATION=Dallas
ETCD_PORT=31974

```
WORKER_VLANS=[]
MASTER_HEALTH=normal
TARGET_VERSION=3.11.200_1548_openshift
IS_PAID=true
_=/usr/bin/env
-------------


Plug-in 'container-service 1.0.57' is now available (you have 1.0.15).
Use 'ic plugin update container-service' to upgrade the plug-in.
Use 'ic config --check-version=false' to disable update check.

-------------
oc whoami: IAM#swink@us.ibm.com
User:              SWINK@US.IBM.COM
Account:           Brandon Swink (XXXX) <-> 1598542
current-context: default/c106-e-us-south-containers-cloud-ibm-
com:30009/IAM#swink@us.ibm.com
-------------
Error from server (AlreadyExists): serviceaccounts "cpdinstall"
already exists
Error from server (AlreadyExists): serviceaccounts "cpdinstall"
already exists
securitycontextconstraints.security.openshift.io/zen-zenuid configured
scc "zen-zenuid" added to: ["system:serviceaccount:zen:cpdinstall"]
scc "anyuid" added to: ["system:serviceaccount:zen:icpd-anyuid-sa"]
cluster role "cluster-admin" added:
"system:serviceaccount:zen:cpdinstall"
cluster role "cluster-admin" added: "system:serviceaccount:kube-
system:cpdinstall"
volume id is 140688464
Order 58669504 was placed successfully!.
 > Storage as a Service

 > 200 GBs

 > 10 IOPS per GB

You may run 'ibmcloud sl file volume-list --order 58669504' to find
this file volume after it is ready.
Docker registry Volume is modified
** exit(0), Removing pod's secret
```