# **Configuring the OpenShift-samples Operator**

**INTRODUCTION:**

This is procedure is needed only when OCP 4.3 Cluster is deployed in disconnected mode.

The Samples Operator, which operates in the OpenShift namespace, installs and updates the Red Hat Enterprise Linux (RHEL)-based OpenShift Container Platform imagestreams and OpenShift Container Platform templates.

Most imagestreams in the OpenShift namespace managed by the Samples Operator point to images located in the Red Hat registry at [registry.redhat.io](https://docs.openshift.com/container-platform/4.3/installing/install_config/registry.redhat.io). Mirroring images while preparing local private registry will not apply to these imagestreams, hence this utility is created.

**PRE-REQUISITES:**

* OCP 4.3 cluster on Bare-Metal in disconnected mode should be deployed.
* After this process another 100Gb of storage will be consumed from private local registry server, which was created for OpenShift deployment in disconnected mode.

**SOFTWARE-RQUIREMENTS:**

* python3 must be installed.
* jq must be installed.
* docker must be installed.

**EXECUTION PLATFORM:**

This utility can be executed from following nodes:

1. **Registry server**: When executed from registry server, additional step is needed to copy “kubeconfig” from NPS node.
2. **NPS:** No additional step is needed.

**USAGE:**

* Inside software bits directory, navigate to **“nps-rhocp/registry-utils/post-install-scripts”** samples-operator.py arguments.json
* Files **“arguments.json”** and **“samples-operator.py”** must be present in same directory.

1. Fill arguments.json

Samples:

{

"registry\_hostname": "hostname.example.com", ====> FQDN of local registry server

"registry\_port": "<registry-port>", ====> User defined port name on which registry is published.

"registry\_username": "<registry-user>", ====> User name of registry server

"registry\_password": "<registry-password>", ====> Password of registry server

"rh\_account\_username": "<rh\_username>", ====> Username of RedHat customer portal

"rh\_account\_password": "<rh\_password>", ====> Password of RedHat customer portal

"exclude\_is": "['jenkins-agent-nodejs','jenkins','jenkins-agent-maven']", ====> Append this list any ImageStreams that are necessary to be skipped.

Jenkins related IS are mandatorily skipped.

"kubeconfig": "</path/to/auth/kubeconfig>", ====> Absolute path of kubeconfig file.

"ca\_cert": "/etc/pki/ca-trust/source/anchors/domain.crt", ====> This is default location of domain.crt. Change it if its generated

somewhere else if not leave this field as it is.

"cleanup": "yes" ====> Whether to remove images downloaded on local server after pushing

them to registry server. Valid options are "yes" and "no". If "no" is

provided extra (~100Gb approx.) storage will be consumed from local

server from which this script is executed.

}

2. Execute samples-operator.py script:

#./samples-operator.py | tee -a samples-operator-$(date +%Y%m%d%H%M%S).logs

OR

# python3 samples-operator.py | tee -a samples-operator-$(date +%Y%m%d%H%M%S).logs

**Note: - This takes around 3-4 hours base on the internet speed.**

**TROUBLESHOOTING:**

If script exits with error, analyse the logs and re-run the script again. No clean-up is need while re-run.