1.Prerequisites:

- OpenShift cluster up and running.

- Nexus Operator installed on your OpenShift cluster.

- oc (OpenShift CLI) installed and configured to interact with your OpenShift cluster.

2. Deploying Nexus using Nexus Operator:

Step 1: Create a new project/namespace

oc new-project nexus

Step 2: Deploy Nexus instance

Create a YAML file (`nexus-instance.yaml`) for your Nexus deployment. Below is an example configuration:

yaml

apiVersion: apps/v1

kind: StatefulSet

metadata:

name: nexus3

namespace: nexus

spec:

serviceName: nexus3

replicas: 1

selector:

matchLabels:

app: nexus3

template:

metadata:

labels:

app: nexus3

spec:

containers:

- name: nexus3

image: sonatype/nexus3:latest

ports:

- containerPort: 8081

name: http

volumeMounts:

- name: nexus-data

mountPath: /nexus-data

volumeClaimTemplates:

- metadata:

name: nexus-data

spec:

accessModes: [ "ReadWriteOnce" ]

resources:

requests:

storage: 10Gi

Apply the configuration using the `oc` command:

oc apply -f nexus-instance.yaml

Step 3: Expose the Nexus service

Create a service to expose Nexus:

oc expose sts nexus3 --port=8081 --target-port=8081 --name=nexus3

Create a route to access Nexus externally:

oc expose svc nexus3

Step 4: Verify the deployment

Check the status of the Nexus pods:

oc get pods -n nexus

Get the URL for the Nexus instance:

oc get route nexus3 -n nexus

Access the Nexus instance in your browser using the provided URL.