

# Operator Lifecycle Manager

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Clone the official Operator Lifecycle Manager repository.

```
git clone https://github.com/operator-framework/operator-lifecycle-manager
```

Install Operator Lifecycle Manager v0.7.2. You may need to run this twice to ensure everything was properly created:

```
oc create -f operator-lifecycle-manager/deploy/okd/manifests/0.7.2/
```

Verify the new `openshift-operator-lifecycle-manager` namespace has been created along with the three OLM operators: `catalog`, `olm`, and `package`.

```
oc get pods --all-namespaces
```

The local console proxy utilizes the `system:serviceaccount:kube-system:default` Service Account to access all resources. Grant this Service Account cluster-admin access and refresh the UI.

```
oc adm policy add-cluster-role-to-user cluster-admin system:serviceaccount:kube-system:default
```

Serve up the Operator-centric OpenShift UI console locally.

```
./operator-lifecycle-manager/scripts/run_console_local.sh
```

You should be able to access the UI at `http://localhost:9000`.

Create a subscription manifest for the `etcd-operator`. Ensure the `Approval` is set to `Manual`.

```
cat > etcd-alpha-subscription.yaml <<EOF
apiVersion: operators.coreos.com/v1alpha1
kind: Subscription
metadata:
  name: etcd
  namespace: myproject
spec:
  channel: alpha
  name: etcd
  source: rh-operators
  installPlanApproval: Manual
EOF
```

Create the Subscription.

```
oc create -f etcd-alpha-subscription.yaml
```

Verify the Subscription and InstallPlan have been created.

```
oc get subscription
oc get installplan
```

Modify the InstallPlan and set `approved` to `true` .

```
oc edit InstallPlan
```

Once the InstallPlan is set to true, you will see the newly provisioned ClusterServiceVersion, ClusterResourceDefinition, Role and RoleBindings, Service Accounts, and etcd-operator Deployment.

```
oc get clusterserviceversion
oc get crd
oc get sa
oc get roles
oc get rolebindings
oc get deployments
```

Create the etcdCluster manifest.

```
cat > etcd-cluster.yaml <<EOF
apiVersion: etcd.database.coreos.com/v1beta2
kind: EtcdCluster
metadata:
  name: example-etcd-cluster
spec:
  size: 3
EOF
```

Create the etcd-cluster.

```
oc create -f etcd-cluster.yaml
```