Ceph Cluster

```
git clone --single-branch --branch v1.7.2 https://github.com/rook/rook.git
```

```
cd rook/cluster/examples/kubernetes/ceph
```

```
kubectl create -f crds.yaml -f common.yaml -f operator.yaml
```

```
kubectl -n rook-ceph get pod
```

rook-ceph-operator: "Running"

```
kubectl create -f cluster.yaml
```

- cluster.yaml: 3 worker / 3 block device
- cluster-test.yaml: 1 node

- mon: a~c
- mgr: a
- osd: 0~2

(optional) Rook Toolbox

```
kubectl create -f toolbox.yaml
```

```
kubectl -n rook-ceph exec deploy/rook-ceph-tools -- ceph status
```

- HEALTH_OK
- HEALTH_WARN
- HEALTH_ERR

RBD Block

```
kubectl create -f csi/rbd/storageclass.yaml
```

CephFS File

```
kubectl create -f filesystem.yaml
```

- filesystem.yaml: 3 worker node
- filesystem-ec.yaml: 3 worker node (Erasure Code)
- fielsystem-test.yaml: 1 node

```
kubectl create -f csi/cephfs/storageclass.yaml
```