

## Lab3. Cluster Operation - Backup / Monitoring

### 0) Install App using Helm Chart

- Add bitnami helm chart repo
- Cluster rke-vm01 > Apps > Repositories > Create
- Name "bitnami"
- Index URL : <https://charts.bitnami.com/bitnami> > Create
- Apps > Charts > Filter "apache"
- Select Apache > Install > Next > Name "Apache" > Next > Install
- Edit YAML : Service Type to NodePort

```
nodePorts:
  http: '30080'
  https: '30443'
ports:
  http: 80
  https: 443
sessionAffinity: None
sessionAffinityConfig: {}
type: NodePort
```

### 1) Backup Cluster Resources

**@vm01**

```
$ rke etcd snapshot-save
$ sudo ls -al /opt/rke/etcd-snapshots/
```

**@rancher**

- App > Installed Apps > apache > Delete

**@vm01**

```
$ rke etcd snapshot-restore --name rke_etcd_snapshot_2022-10-26T01:23:02Z #
except .zip file extension
```

**@rancher**

- Check Workload > apache

### 3) Enable monitoring

- Cluster > Apps > Charts > Filter monitoring
- Select "Monitoring" > Install > Install into Project > System > Next
- Install
- Check Cluster > Monitoring > Grafana