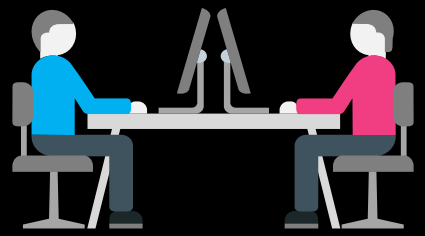
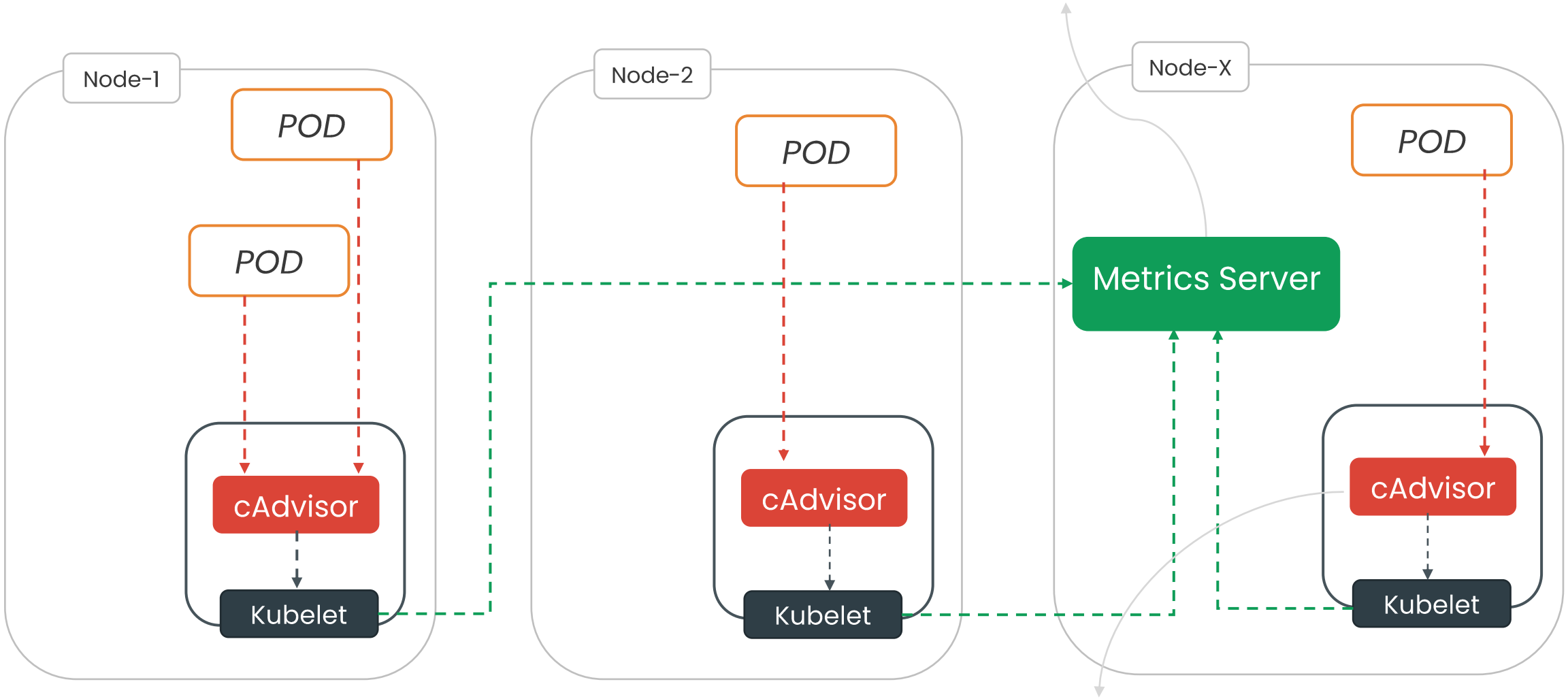
Installing & Monitoring Using

Metrics-Server



MONITORING ARCHITECTURE - **METRICS SERVER**

MetricsServer runs on one of the nodes as a pod and collects metrics from all nodes.



cAdvisor collects metrics from containers running on its node.

INSTALLING METRICS-SERVER

1. Metrics-Server **Deployment**

```
kubectl get deployment metrics-server -n kube-system
```

```
Error from server (NotFound): deployments.apps "metrics-server" not found
```

2. Metrics-Server **API Service**

```
kubectl get apiservices | grep metrics
```

3. **TOP** Command

```
kubectl top pods
```

```
Error from server (NotFound): the server could not find the requested resource
```

INSTALLING METRICS-SERVER

4 Download Metrics-Server

```
git clone https://github.com/kubernetes-sigs/metrics-server.git
```

```
ls metrics-server/manifests/
```

```
autoscale  base  release  test
```

```
ls metrics-server/manifests/test/
```

```
kustomization.yaml  patch.yaml
```

5 Update Metrics-Server Deployment file & Install

```
kubectl apply -k metrics-server/manifests/test
```

If encounter any issue, please refer to " Installing Metrics-Server" Live Demo

VALIDATING METRICS-SERVER

a Metrics-Server **Deployment**

```
kubectl get deployment metrics-server -n kube-system
```

```
NAME             READY   UP-TO-DATE   AVAILABLE   AGE
metrics-server   1/1     1            1           12m
```

b Metrics-Server **API Service**

```
kubectl get apiservices | grep metrics
```

```
v1beta1.metrics.k8s.io                 kube-system/metrics-server   True        6m40s
```

c **TOP** Command

```
kubectl top nodes
```

```
NAME       CPU(cores)   CPU%   MEMORY(bytes)   MEMORY%
master     102m         5%     969Mi           13%
worker-1   25m          2%     437Mi           12%
worker-2   23m          2%     423Mi           12%
worker-3   34m          3%     455Mi           13%
```

```
kubectl top pods
```

```
NAME                          CPU(cores)   MEMORY(bytes)
ngnx-rs-5f654bcccd-ctvml      0m           1Mi
ngnx-rs-5f654bcccd-qx6zn      0m           1Mi
ngnx-rs-5f654bcccd-sgcl5      0m           1Mi
```