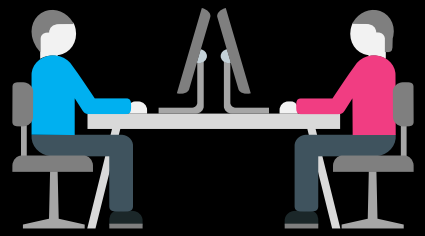
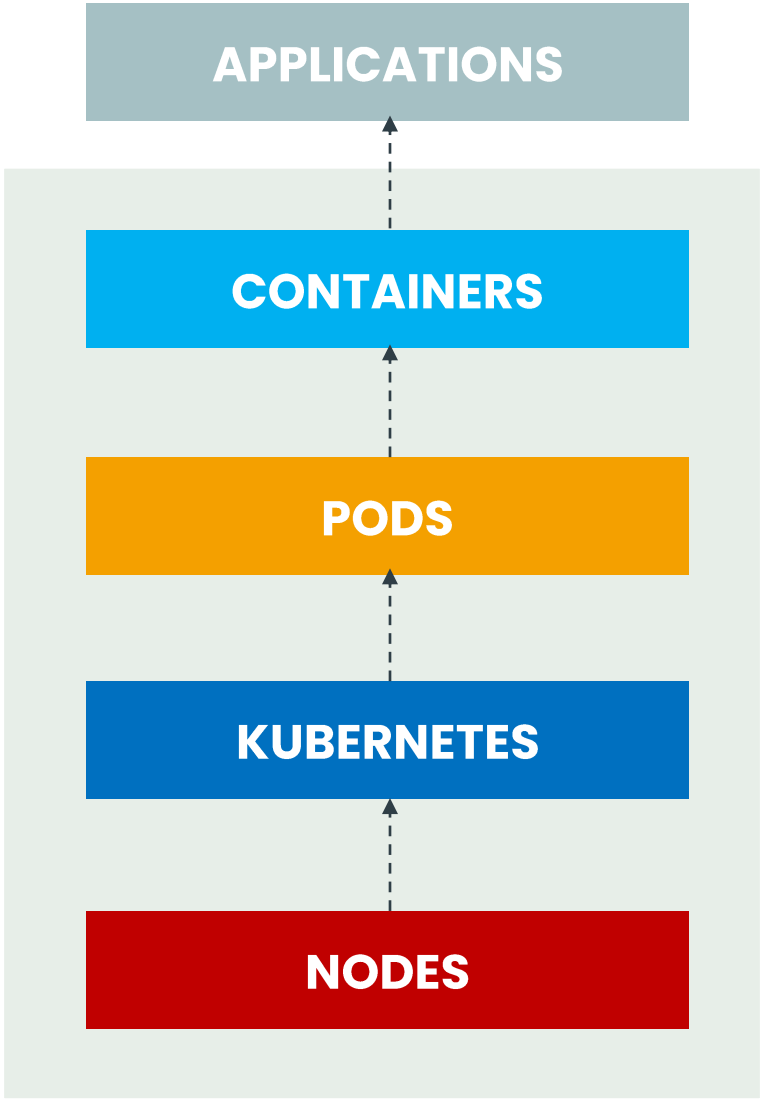
Monitoring K8s Cluster



MONITORING - **METRICS**



MONITORING **NODE**

```
kubectl get nodes
```

```
NAME       STATUS   ROLES    AGE   VERSION
master     Ready    master   39d   v1.18
worker-1   Ready    <none>   39d   v1.18
worker-2   Ready    <none>   39d   v1.18
worker-3   Ready    <none>   39d   v1.18
```

```
kubectl top nodes
```

```
NAME       CPU(cores)   CPU%   MEMORY(bytes)   MEMORY%
master     105m         5%     1091Mi          15%
worker-1   17m          1%     416Mi           12%
worker-2   19m          1%     371Mi           10%
worker-3   16m          1%     402Mi           11%
```

MONITORING **KUBERNETES**

```
kubectl get componentstatus
```

```
NAME                 STATUS    MESSAGE             ERROR
scheduler            Healthy   ok
controller-manager   Healthy   ok
etcd-0               Healthy   {"health":"true"}
```

```
kubectl get pods -n kube-system   #KUBEADM
```

```
NAME                                 READY   STATUS    RESTARTS   AGE
coredns-5644d7b6d9-4nv7g             1/1     Running   12         39d
coredns-5644d7b6d9-6nx94             1/1     Running   12         39d
etcd-master                          1/1     Running   12         39d
kube-apiserver-master                1/1     Running   12         39d
kube-controller-manager-master       1/1     Running   12         39d
kube-flannel-ds-amd64-cpfx7          1/1     Running   12         39d
kube-flannel-ds-amd64-h4zfw          1/1     Running   10         39d
kube-flannel-ds-amd64-qn6pq          1/1     Running   10         39d
kube-flannel-ds-amd64-z5b4n          1/1     Running   13         39d
kube-proxy-62gj8                     1/1     Running   12         39d
kube-proxy-b9r6r                     1/1     Running   10         39d
kube-proxy-l85p9                     1/1     Running   10         39d
kube-proxy-shnc4                     1/1     Running   10         39d
kube-scheduler-master                1/1     Running   12         39d
```

MASTER SERVICES (MANUAL)

```
systemctl status kube-apiserver
systemctl status kube-controller-manager
systemctl status kube-scheduler
```

WORKER SERVICES (MANUAL)

```
systemctl status docker
systemctl status kubelet
systemctl status kube-proxy
```

MONITORING **PODS**

```
kubectl get pods
```

```
NAME                    READY   STATUS    RESTARTS   AGE
mc-pod                  2/2     Running   0          17m
nginx-rc-5cgmv          1/1     Running   0          23d
nginx-rc-5n49l          1/1     Running   0          23d
nginx-rc-q5llm          1/1     Running   0          23d
```

```
kubectl top pods
```

```
NAME                    CPU(cores)   MEMORY(bytes)
Mc-pod                  0m           3Mi
nginx-rc-5cgmv          0m           1Mi
nginx-rc-5n49l          0m           2Mi
nginx-rc-q5llm          0m           1Mi
```

```
kubectl top pods -n kube-system
```

```
NAME                          CPU(cores)   MEMORY(bytes)
coredns-5644d7b6d9-4nv7g      3m           10Mi
coredns-5644d7b6d9-6nx94      4m           10Mi
etcd-master                   13m          55Mi
kube-apiserver-master         30m          268Mi
```

```
kubectl top pods --all-namespaces
```

```
NAME                    CPU(cores)   MEMORY(bytes)
mc-pod                  0m           3Mi
nginx-rc-5cgmv          0m           1Mi
nginx-rc-5n49l          0m           2Mi
nginx-rc-q5llm          0m           1Mi
. . .
```

MONITORING **CONTAINERS**

```
kubectl get pods
```

```
NAME                    READY   STATUS    RESTARTS   AGE
mc-pod                  2/2     Running   0          17m
nginx-rc-5cgmv          1/1     Running   9          24d
nginx-rc-5n49l          1/1     Running   9          24d
nginx-rc-q5llm          1/1     Running   9          24d
```

```
kubectl top pods
```

```
NAME                    CPU(cores)   MEMORY(bytes)
mc-pod                  2m           1Mi
nginx-rc-5cgmv          0m           3Mi
nginx-rc-5n49l          0m           2Mi
nginx-rc-q5llm          0m           1Mi
```

```
================================================================================
```

```
POD       NAME          CPU(cores)   MEMORY(bytes)
mc-pod    container-1   0m           1Mi
mc-pod    container-2   2m           0Mi
```