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**CKA Curriculum Lab Part 2 - Logging and Monitoring Answers**
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<u>Lab Activity 1 - General cluster status</u>

Leveraging a single kubectl command acquire the current status for the Scheduler, Controller-Manager and etcd components

Lab Activity 2 - Acquiring component logs

List the logs from the following components on a master node:

Kube-APIServer

First activity is to locate the logs, be it from a pod/log file/or systemd unit

```
cat /var/log/kube-apiserver.log
or
journalctl -u kube-apiserver
or
kubectl logs kube-apiserver-k8s-master-03 -n kube-system
```

• Kube-Scheduler

```
cat /var/log/kube-scheduler.log
or
journalctl -u kube-scheduler
or
kubectl logs kube-scheduler-k8s-master-03 -n kube-system
```

• Kube-Controller-Manager

```
cat /var/log/kube-controller-manager.log
or
journalctl -u kube-controller-manager
or
kubectl logs kube-controller-manager-k8s-master-03 -n kube-system
```

List the logs from the following components on a worker node:

• CNI

Flannel as an example:

```
journalctl -u flanneld
```

or

kubectl logs kube-flannel-ds-amd64-9mrnj -n kube-system

• Kube-Proxy

```
journalctl -u kube-proxy
or
cat /var/log/kube-proxy.log
or
kubectl logs kube-flannel-ds-amd64-9mrnj -n kube-system
```

Kubelet

```
journalctl -u kubelet
Or
cat /var/log/kubelet.log
```

• Container Runtime

```
journalctl -u docker.service
Or
cat /var/log/docker.log
```

Lab Activity 3 - Application Monitoring

Run the following:

kubectl apply -f https://raw.githubusercontent.com/David-VTUK/CKAExampleYaml/master/nginx-svc-and-deployment.yamlhttps://raw.githubusercontent.com/David-VTUK/CKAExampleYaml/master/nginx-svc-and-deployment.yamlhttps://raw.githubusercontent.com/David-VTUK/CKAExampleYaml/master/nginx-svc-and-deployment.yamlhttps://raw.githubusercontent.com/David-VTUK/CKAExampleYaml/master/nginx-svc-and-deployment.yamlhttps://raw.githubusercontent.com/David-VTUK/CKAExampleYaml/master/nginx-svc-and-deployment.yamlhttps://raw.githubusercontent.com/David-VTUK/CKAExampleYaml/master/nginx-svc-and-deployment.yamlhttps://raw.githubusercontent.com/David-VTUK/CKAExampleYaml/master/nginx-svc-and-deployment.yamlhttps://raw.githubusercontent.com/David-VTUK/CKAExampleYaml/master/nginx-svc-and-deployment.yamlhttps://raw.githubusercontent.com/David-VTUK/CKAExampleYaml/master/nginx-svc-and-deployment.yamlhttps://raw.githubusercontent.com/David-VTUK/CKAExampleYaml/master/nginx-svc-and-deployment.yamlhttps://raw.githubusercontent.githubusercontent.yamlhttps://raw.githubusercontent.y

• Gather the events from a given pod from this deployment:

```
kubectl get pods
kubectl describe pod nginx-deployment-6dd86d77d-7tm22
```

• Gather the events from the replicaset created from this deployment

kubectl describe replicaset nginx-deployment-6dd86d77d

• Gather the events from the service from this deployment

kubectl describe svc nginx-service

• Acquire the list of endpoints associated with this service

Endpoints: 10.244.1.73:80,10.244.1.74:80,10.244.2.53:80

• How are the endpoints determined?

Selector: app=nginx

• Which kubectl command would display all the logs from the pods created from this deployment?

kubectl logs -l app=nginx --all-containers=true