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QUESTION 1

SIMULATION

Given a partially-functioning Kubernetes cluster, identify symptoms of failure on the cluster.

Determine the node, the failing service, and take actions to bring up the failed service and restore the health of the cluster. Ensure that any changes are made permanently.

You can ssh to the relevant I nodes (bk8s-master-0 or bk8s-node-0) using:

```
[student@node-1] $ ssh
```

You can assume elevated privileges on any node in the cluster with the following command:

```
[student@nodename] $ | sudo -i
```

Correct Answer: Check the answer in explanation.

solution

```
The list of available updates is more than a week old.
To check for new updates run: sudo apt update

student@wk8s-node-0:~$ sudo -i
root@wk8s-node-0:~# systemctl enable --now kubelet
Created symlink /etc/systemd/system/multi-user.target.wants/kubelet.service → /lib/systemd/system/kubelet.service.
root@wk8s-node-0:~# systemctl restart kubelet
root@wk8s-node-0:~# systemctl status kubelet
● kubelet.service - kubelet: The Kubernetes Node Agent
   Loaded: loaded (/lib/systemd/system/kubelet.service; enabled; vendor preset: enabled)
   Drop-In: /etc/systemd/system/kubelet.service.d
            └─10-kubeadm.conf, 11-cgroups.conf
   Active: active (running) since Mon 2022-04-25 15:53:40 UTC; 10s ago
     Docs: https://kubernetes.io/docs/home/
   Process: 48272 ExecStartPre=/bin/sleep 10 (code=exited, status=0/SUCCESS)
    Main PID: 48285 (kubelet)
      Tasks: 27 (limit: 37281)
     Memory: 36.6M
        CPU: 530ms
   CGroup: /system.slice/kubelet.service
           └─48285 /usr/bin/kubelet --bootstrap-kubeconfig=/etc/kubernetes/bootstrap-kubelet.conf --kubeconfig=/etc/kube

Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.273180 48285 topology_manager.go:200] "Topology Admit Handler"
Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.281123 48285 reconciler.go:216] "operationExecutor.VerifyConte
Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.281155 48285 reconciler.go:216] "operationExecutor.VerifyConte
Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.281178 48285 reconciler.go:216] "operationExecutor.VerifyConte
Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.281199 48285 reconciler.go:216] "operationExecutor.VerifyConte
Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.281239 48285 reconciler.go:216] "operationExecutor.VerifyConte
Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.281278 48285 reconciler.go:216] "operationExecutor.VerifyConte
Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.281310 48285 reconciler.go:216] "operationExecutor.VerifyConte
Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.281330 48285 reconciler.go:216] "operationExecutor.VerifyConte
Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.281339 48285 reconciler.go:157] "Reconciler: start to sync st

root@wk8s-node-0:~# exit
logout
student@wk8s-node-0:~$ exit
logout
Connection to 10.250.5.52 closed.
student@node-1:~$ kubectl get nodes
NAME             STATUS    ROLES                    AGE   VERSION
wk8s-master-0   Ready    control-plane,master    67d   v1.23.1
wk8s-node-0     Ready    <none>                   67d   v1.23.1
wk8s-node-1     Ready    <none>                   67d   v1.23.1
student@node-1:~$
```



```
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root@node-1:~#
root@node-1:~# kubectl config use-context bk8s
Switched to context "bk8s".
root@node-1:~# ssh bk8s-master-0
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.4.0-1109-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

 * Are you ready for Kubernetes 1.19? It's nearly here! Try RC3 with
   sudo snap install microk8s --channel=1.19/candidate --classic

   https://microk8s.io/ has docs and details.

4 packages can be updated.
1 update is a security update.

New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

student@bk8s-master-0:~$ sudo -i
root@bk8s-master-0:~# vim /var/lib/kubelet/config.yaml
```

QUESTION 2

SIMULATION Create a pod as follows: Name: mongo Using Image: mongo In a new Kubernetes namespace named: my-website

Correct Answer: Check the answer in explanation.

Solution

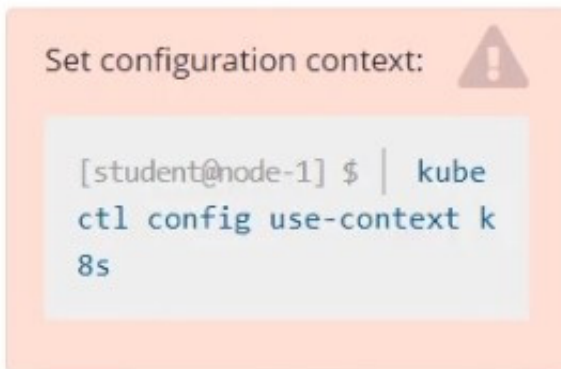


```
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root@node-1:~#
root@node-1:~#
root@node-1:~# k create ns my-website
namespace/my-website created
root@node-1:~# k run mongo --image=mongo -n my-website
pod/mongo created
root@node-1:~# k get po -n my-website
NAME      READY   STATUS              RESTARTS   AGE
mongo     0/1     ContainerCreating   0           4s
root@node-1:~#
```

QUESTION 3

CORRECT TEXT



Task Monitor the logs of pod bar and: Extract log lines corresponding to error file-not-found

Write them to /opt/KUTR00101/bar

Correct Answer: Check the answer in explanation.

```
kubectl logs bar | grep '\unable-to-access-website\' > /opt/KUTR00101/bar cat /opt/KUTR00101/bar
```



QUESTION 4

SIMULATION

Create a deployment spec file that will:

Launch 7 replicas of the nginx Image with the label `app_runtime_stage=dev`

deployment name: `kual00201`

Save a copy of this spec file to `/opt/KUAL00201/spec_deployment.yaml` (or `/opt/KUAL00201/spec_deployment.json`).

When you are done, clean up (delete) any new Kubernetes API object that you produced during this task.

Correct Answer: Check the answer in explanation.

```
root@node-1:~# k create deploy kual00201 --image=nginx --dry-run=client -o yaml > /opt/KUAL00201/spec_deployment.yaml
root@node-1:~# vim /opt/KUAL00201/spec_deployment.yaml
```



```
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apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    app_runtime_stage: dev
  name: kual00201
spec:
  replicas: 7
  selector:
    matchLabels:
      app_runtime_stage: dev
  template:
    metadata:
      labels:
        app_runtime_stage: dev
    spec:
      containers:
      - image: nginx
        name: nginx
~
~
~
~
~
"/opt/KUAL00201/spec_deployment.yaml" 19L, 320C written
```

QUESTION 5

SIMULATION

From the pod label name=cpu-utilizer, find pods running high CPU workloads and write the name of the pod consuming most CPU to the file /opt/KUTR00102/KUTR00102.txt (which already exists).

Correct Answer: Check the answer in explanation.



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