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QUESTION 1

SIMULATION

Create a pod as follows: Name: non-persistent-redis container Image: redis Volume with name: cache-control Mount path: /data/redis The pod should launch in the staging namespace and the volume must not be persistent.

Correct Answer: Check the answer in explanation.

```
root@node-1:~#  
root@node-1:~#  
root@node-1:~# vim volume.yaml
```



```
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apiVersion: v1
kind: Pod
metadata:
  name: non-persistent-redis
  namespace: staging
spec:
  containers:
  - name: redis
    image: redis
    volumeMounts:
    - name: cache-control
      mountPath: /data/redis
  volumes:
  - name: cache-control
    emptyDir: {}

~
~
~
~
~
~
~
~
~
~
:w
```

```
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root@node-1:~#
root@node-1:~#
root@node-1:~# vim volume.yaml
root@node-1:~# k create -f volume.yaml
pod/non-persistent-redis created
root@node-1:~# k get po -n staging
NAME                READY   STATUS    RESTARTS   AGE
non-persistent-redis 1/1     Running   0           6s
root@node-1:~#
```



QUESTION 2

Create an nginx pod and list the pod with different levels of verbosity

Correct Answer: Check the answer in explanation.

Solution

```
// create a pod kubectl run nginx --image=nginx --restart=Never --port=80 // List the pod with different verbosity kubectl  
get po nginx --v=7 kubectl get po nginx --v=8 kubectl get po nginx --v=9
```

QUESTION 3

SIMULATION

Configure the kubelet systemd- managed service, on the node labelled with name=wk8s-node-1, to launch a pod containing a single container of Image httpd named webtool automatically. Any spec files required should be placed in the /etc/

kubernetes/manifests directory on the node.

You can ssh to the appropriate node using:

```
[student@node-1] $ ssh wk8s-node-1
```

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

```
[student@wk8s-node-1] $ | sudo -i
```

Correct Answer: Check the answer in explanation.

```
student@node-1:~$ kubectl config use-context wk8s  
Switched to context "wk8s".  
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        NotReady <none>    67d    v1.23.1  
wk8s-node-1        Ready    <none>    67d    v1.23.1  
student@node-1:~$ kubectl describe nodes wk8s-node-0
```



```
ephemeral-storage: 65515382676
hugepages-1Gi: 0
hugepages-2Mi: 0
memory: 31724872Ki
pods: 110
System Info:
Machine ID: 2107786af1744dfbbf02d9f6fac470b0
System UUID: ec22a34d-9b09-cea1-d7eb-1b47b08d2151
Boot ID: 3b22c15f-7dd1-4f61-b5c2-f24d9bd8b281
Kernel Version: 5.11.0-1028-aws
OS Image: Ubuntu 20.04.3 LTS
Operating System: linux
Architecture: amd64
Container Runtime Version: docker://20.10.7
Kubelet Version: v1.23.1
Kube-Proxy Version: v1.23.1
PodCIDR: 10.244.1.0/24
PodCIDRs: 10.244.1.0/24
Non-terminated Pods: (2 in total)
-----
Name CPU Requests CPU Limits Memory Requests Memory Limits Age
-----
kube-system kube-flannel-ds-rxbx8 100m (0%) 100m (0%) 50Mi (0%) 50Mi (0%) 67d
kube-system kube-proxy-xfzxm 0 (0%) 0 (0%) 0 (0%) 0 (0%) 67d
Allocated resources:
(Total limits may be over 100 percent, i.e., overcommitted.)
Resource Requests Limits
-----
cpu 100m (0%) 100m (0%)
memory 50Mi (0%) 50Mi (0%)
ephemeral-storage 0 (0%) 0 (0%)
hugepages-1Gi 0 (0%) 0 (0%)
hugepages-2Mi 0 (0%) 0 (0%)
Events: <none>
```

```
Unschedulable: false
Lease:
HolderIdentity: wk8s-node-0
AcquireTime: <unset>
RenewTime: Mon, 25 Apr 2022 09:29:25 +0000
Conditions:
Type Status LastHeartbeatTime LastTransitionTime Reason Me
-----
NetworkUnavailable False Mon, 25 Apr 2022 09:21:15 +0000 Mon, 25 Apr 2022 09:21:15 +0000 FlannelIsUp Fl
annel is running on this node
MemoryPressure Unknown Mon, 25 Apr 2022 09:25:20 +0000 Mon, 25 Apr 2022 09:30:07 +0000 NodeStatusUnknown Ku
belet stopped posting node status.
DiskPressure Unknown Mon, 25 Apr 2022 09:25:20 +0000 Mon, 25 Apr 2022 09:30:07 +0000 NodeStatusUnknown Ku
belet stopped posting node status.
PIDPressure Unknown Mon, 25 Apr 2022 09:25:20 +0000 Mon, 25 Apr 2022 09:30:07 +0000 NodeStatusUnknown Ku
belet stopped posting node status.
Ready Unknown Mon, 25 Apr 2022 09:25:20 +0000 Mon, 25 Apr 2022 09:30:07 +0000 NodeStatusUnknown Ku
belet stopped posting node status.
Addresses:
InternalIP: 10.250.5.52
Hostname: wk8s-node-0
Capacity:
cpu: 16
ephemeral-storage: 71088740Ki
hugepages-1Gi: 0
hugepages-2Mi: 0
memory: 31827272Ki
pods: 110
Allocatable:
cpu: 16
ephemeral-storage: 65515382676
hugepages-1Gi: 0
```



```
ephemeral-storage: 65515382676
hugepages-1Gi: 0
hugepages-2Mi: 0
memory: 31724872Ki
pods: 110
System Info:
Machine ID: 2107786af1744dfbbf02d9f6fac470b0
System UUID: ec22a34d-9b09-cea1-d7eb-1b47b08d2151
Boot ID: 3b22c15f-7dd1-4f61-b5c2-f24d9bd8b281
Kernel Version: 5.11.0-1028-aws
OS Image: Ubuntu 20.04.3 LTS
Operating System: linux
Architecture: amd64
Container Runtime Version: docker://20.10.7
Kubelet Version: v1.23.1
Kube-Proxy Version: v1.23.1
PodCIDR: 10.244.1.0/24
PodCIDRs: 10.244.1.0/24
Non-terminated Pods: (2 in total)
-----
Namespace          Name          CPU Requests  CPU Limits  Memory Requests  Memory Lim
-----
kube-system        kube-flannel-ds-rxbx8  100m (0%)    100m (0%)   50Mi (0%)        50Mi (0%)
kube-system        kube-proxy-xfxzm      0 (0%)       0 (0%)      0 (0%)           0 (0%)
Allocated resources:
(Total limits may be over 100 percent, i.e., overcommitted.)
Resource           Requests      Limits
-----
cpu                100m (0%)    100m (0%)
memory            50Mi (0%)    50Mi (0%)
ephemeral-storage 0 (0%)       0 (0%)
hugepages-1Gi     0 (0%)       0 (0%)
hugepages-2Mi     0 (0%)       0 (0%)
Events:            <none>
student@node-1:~$ kubectl config use-context wk8s
Switched to context "wk8s".
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  NotReady <none>   67d   v1.23.1
wk8s-node-1  Ready    <none>   67d   v1.23.1
student@node-1:~$ ssh wk8s-node-0
Warning: Permanently added '10.250.5.52' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.11.0-1028-aws x86_64)

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

System information as of Mon Apr 25 09:31:01 UTC 2022

System load:  2.05          Processes:            40
Usage of /:   83.2% of 67.79GB Users logged in:     0
Memory usage: 0%          IPv4 address for docker0: 172.17.0.1
Swap usage:   0%          IPv4 address for eth0:  10.250.5.52

30 updates can be applied immediately.
15 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

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.se
root@wk8s-node-0:~# systemctl restart kubelet
root@wk8s-node-0:~# systemctl status kube
```



```

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.VerifyCont
Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.281155 48285 reconciler.go:216] "operationExecutor.VerifyCont
Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.281178 48285 reconciler.go:216] "operationExecutor.VerifyCont
Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.281199 48285 reconciler.go:216] "operationExecutor.VerifyCont
Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.281239 48285 reconciler.go:216] "operationExecutor.VerifyCont
Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.281278 48285 reconciler.go:216] "operationExecutor.VerifyCont
Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.281310 48285 reconciler.go:216] "operationExecutor.VerifyCont
Apr 25 15:53:41 wk8s-node-0 kubelet[48285]: I0425 15:53:41.281330 48285 reconciler.go:216] "operationExecutor.VerifyCont
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:~$

```

QUESTION 4

Create a namespace called `development` and a pod with image `nginx` called `nginx` on this namespace.

Correct Answer: Check the answer in explanation.

```
kubectl create namespace development kubectl run nginx --image=nginx --restart=Never -n development
```

QUESTION 5

Create a pod with environment variables as `var1=value1`. Check the environment variable in pod

Correct Answer: Check the answer in explanation.

Solution

```
kubectl run nginx --image=nginx --restart=Never --env=var1=value1 # then kubectl exec -it nginx -- env # or kubectl exec -it nginx -- sh -c 'echo $var1' # or kubectl describe po nginx | grep value1
```

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