

Free Questions for CKA by dumpssheet

Shared by Bishop on 05-09-2022

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Question 1

Question Type: MultipleChoice

SIMULATION

Schedule a pod as follows:

* Name: nginx-kusc00101

* Image: nginx

* Node selector: disk=ssd

Options:

A) solution



root@node-1:~# vim disk.yaml ٠

```
Readme >_ Web Terminal
apiVersion: v1
kind: Pod
 name: nginx-kusc00101
 - name: nginx
   image: nginx
   imagePullPolicy: IfNotPresent
   disk: ssd
"disk.yaml" [New] 11L, 176C written
```

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root@node-1:~# vim disk.yam root@node-1:~# k create -f o pod/nginx-kusc00101 created root@node-1:~# k get po	disk.yam	1		
NAME	READY	STATUS	RESTARTS	AGE
cpu-utilizer-98b9se	1/1	Running	0	5h59m
cpu-utilizer-ab2d3s	1/1	Running	0	5h59m
cpu-utilizer-kipb9a	1/1	Running	0	5h59m
ds-kusc00201-2r2k9	1/1	Running	0	13m
ds-kusc00201-hzm9q	1/1	Running	0	13m
foo	1/1	Running	0	6h1m
nginx-kusc00101	1/1	Running	0	9s
webserver-84c55967f4-qzjcv	1/1	Running	0	6h16m
webserver-84c55967f4-t4791 root@node-1:~#	1/1	Running	0	6h16m

Readme >_ Web Terminal

B) solution



root@node-1:~# vim disk.yaml ٠

```
Readme >_ Web Terminal
apiVersion: v1
kind: Pod
 name: nginx-kusc00101
 - name: nginx
   image: nginx
   imagePullPolicy: IfNotPresent
   disk: ssd
"disk.yaml" [New] 11L, 176C written
```

<pre>root@node-1:~# vim disk.yami root@node-1:~# k create -f c pod/nginx-kusc00101 created root@node-1:~# k get po</pre>		1		
NAME	READY	STATUS	RESTARTS	AGE
cpu-utilizer-98b9se	1/1	Running	0	5h59m
cpu-utilizer-ab2d3s	1/1	Running	0	5h59m
cpu-utilizer-kipb9a	1/1	Running	0	5h59m
ds-kusc00201-2r2k9	1/1	Running	0	13m
ds-kusc00201-hzm9q	1/1	Running	0	13m
foo	1/1	Running	0	6h1m
nginx-kusc00101	1/1	Running	0	9s
webserver-84c55967f4-qzjcv	1/1	Running	0	6h16m
webserver-84c55967f4-t4791 root@node-1:~#	1/1	Running	0	6h16m

Readme >_ Web Terminal

Answer:

А

Question 2

SIMULATION

Create a Kubernetes secret as follows:

* Name: super-secret

* password: bob

Create a pod named pod-secrets-via-file, using the redis Image, which mounts a secret named super-secret at /secrets.

Create a second pod named pod-secrets-via-env, using the redis Image, which exports password as CONFIDENTIAL

Options:

A) solution

THELINUX FOUNDATION

root@node-1:~#
root@node-1:~# k create secret generic super-secret --from-literal=password=bob
secret/super-secret created
root@node-1:~# vim secret.yaml

Readme >_ Web Terminal	
apiVersion: v1 kind: Pod	A.
metadata:	
name: pod-secrets-via-file	
spec:	
containers:	
- name: redis	
image: redis	
volumeMounts:	
- name: foo	
mountPath: "/secrets"	
volumes:	
- name: foo	
secret:	
<pre>secretName: super-secret ~</pre>	
~	
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Readme >_ Web Terminal

<pre>root@node-1:~# k create -; pod/pod-secrets-via-file c root@node-1:~# vim secret; root@node-1:~# k create -; pod/pod-secrets-via-env c; root@node-1:~# k get po</pre>	created 1.yaml f secret1.y			
NAME	READY	STATUS	RESTARTS	AGE
cpu-utilizer-98b9se	1/1	Running	0	6h25m
cpu-utilizer-ab2d3s	1/1	Running	0	6h25m
cpu-utilizer-kipb9a	1/1	Running	0	6h25m
ds-kusc00201-2r2k9	1/1	Running	0	40m
ds-kusc00201-hzm9q	1/1	Running	0	40m
foo	1/1	Running	0	6h28m
front-end	1/1	Running	0	6h27m
hungry-bear	1/1	Running	0	36m
kucc8	3/3	Running	0	34m

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B) solution

THELINUX FOUNDATION

root@node-1:~#
root@node-1:~# k create secret generic super-secret --from-literal=password=bob
secret/super-secret created
root@node-1:~# vim secret.yaml

Readme >_ Web Terminal	
apiVersion: v1 kind: Pod	A.
metadata:	
name: pod-secrets-via-file	
spec:	
containers:	
- name: redis	
image: redis	
volumeMounts:	
- name: foo	
mountPath: "/secrets"	
volumes:	
- name: foo	
secret:	
<pre>secretName: super-secret ~</pre>	
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Readme >_ Web Terminal

<pre>root@node-1:~# k create - pod/pod-secrets-via-file root@node-1:~# vim secret root@node-1:~# k create - pod/pod-secrets-via-env o root@node-1:~# k get po</pre>	created t1.yaml -f secret1.y			
NAME	READY	STATUS	RESTARTS	AGE
cpu-utilizer-98b9se	1/1	Running	0	6h25m
cpu-utilizer-ab2d3s	1/1	Running	0	6h25m
cpu-utilizer-kipb9a	1/1	Running	0	6h25m
ds-kusc00201-2r2k9	1/1	Running	0	40m
ds-kusc00201-hzm9g	1/1	Running	0	40m
foo	1/1	Running	0	6h28m
front-end	1/1	Running	0	6h27m
hungry-bear	1/1	Running	0	36m
kucc8	3/3	Running	0	34m

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Answer:

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Question 3

SIMULATION

Create a file:

/opt/KUCC00302/kucc00302.txt that lists all pods that implement service baz in namespace development.

The format of the file should be one pod name per line.

Options:

A) solution

root@node-1:~#					
root@node-1:~# k d	escribe svc baz -n development				
Name:	baz				
Namespace:	development				
Labels:	<none></none>				
Annotations:	<none></none>				
Selector:	name=foo				
Type:	ClusterIP				
IP:	10.104.252.175				
Port:	<unset> 80/TCP</unset>				
TargetPort:	9376/TCP				
Endpoints:	10.244.1.5:9376,10.244.2.3:9376,10.244.2.6:9376				
Session Affinity:	None				
Events:	<none></none>				
root@node-1:~# k g	et po -l name=foo -n development				
NAME	READY STATUS RESTARTS AGE				
pod-kucc00302-8478	78 1/1 Running 0 6h35m				
pod-kucc00302-9834	57 1/1 Running 0 6h35m				
pod-kucc00302-9859	53 1/1 Running 0 6h35m				
root@node-1:~# k g	et po -l name=foo -n development -o NAME				
pod/pod-kucc00302-847878					
pod/pod-kucc00302-983457					
pod/pod-kucc00302-985953					
이 같은 것은 것은 것을 알았다. 이 집 것은 것은 것은 것을 알았는 것 같이 같이 같이 같이 많다. 이 것은 것은 것을 들었다.	et po -1 name=foo -n development -o NAME > /opt/KUCC00302/kucc00302.txt				
root@node-1:~# vim	/opt/KUCC00302/kucc00302.txt				

pod-kucc00302-847878 pod-kucc00302-983457 pod-kucc00302-985953

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Name: Namespace: Labels: Annotations: Selector:	baz development <none> name=foo</none>	

B) solution

root@node-1:~#					
root@node-1:~# k d	escribe svc baz -n development				
Name:	baz				
Namespace:	development				
Labels:	<none></none>				
Annotations:	<none></none>				
Selector:	name=foo				
Type:	ClusterIP				
IP:	10.104.252.175				
Port:	<unset> 80/TCP</unset>				
TargetPort:	9376/TCP				
Endpoints:	10.244.1.5:9376,10.244.2.3:9376,10.244.2.6:9376				
Session Affinity:	None				
Events:	<none></none>				
root@node-1:~# k g	et po -l name=foo -n development				
NAME	READY STATUS RESTARTS AGE				
pod-kucc00302-8478	78 1/1 Running 0 6h35m				
pod-kucc00302-9834	57 1/1 Running 0 6h35m				
pod-kucc00302-9859	53 1/1 Running 0 6h35m				
root@node-1:~# k g	et po -l name=foo -n development -o NAME				
pod/pod-kucc00302-847878					
pod/pod-kucc00302-983457					
pod/pod-kucc00302-985953					
· · · · · · · · · · · · · · · · · · ·	et po -1 name=foo -n development -o NAME > /opt/KUCC00302/kucc00302.txt				
root@node-1:~# vim	/opt/KUCC00302/kucc00302.txt				

pod-kucc00302-847878 pod-kucc00302-983457 pod-kucc00302-985953

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Name: Namespace: Labels: Annotations: Selector:	baz development <none> name=foo</none>	

Answer:

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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.

Options:

A) solution

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THELINUX FOUNDATION

root@node-1:~# k create deploy kual00201 --image=nginx --dry-run=client -o yaml > /opt/KUAL _ 00201/spec_deployment.yaml

root@node-1:~# vim /opt/KUAL00201/spec_deployment.yaml

```
apiVersion: apps/vl
kind: Deployment
   app runtime stage: dev
 name: kua100201
     app runtime stage: dev
       app_runtime_stage: dev
     - image: nginx
       name: nginx
~
~
"/opt/KUAL00201/spec_deployment.yaml" 19L, 320C written
```

B) solution

Π

THELINUX FOUNDATION

root@node-1:~# k create deploy kual00201 --image=nginx --dry-run=client -o yaml > /opt/KUAL _ 00201/spec_deployment.yaml

root@node-1:~# vim /opt/KUAL00201/spec_deployment.yaml

```
apiVersion: apps/vl
kind: Deployment
   app runtime stage: dev
 name: kua100201
     app runtime stage: dev
       app_runtime_stage: dev
     - image: nginx
       name: nginx
~
~
"/opt/KUAL00201/spec_deployment.yaml" 19L, 320C written
```

Answer:

Question 5

Question Type: MultipleChoice

SIMULATION

Create a pod as follows:

* Name: mongo

* Using Image: mongo

* In a new Kubernetes namespace named: my-website

Options:

A) solution

THELINUX FOUNDATION

root@node-1:~#
root@node-1:~#
root@node-1:~#
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

B) solution

THELINUX FOUNDATION

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

Answer:

А

Question 6

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.

Options:

A) solution

THELINUX FOUNDATION

*

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

```
Readme >_ Web Terminal
apiVersion: v1
kind: Pod
name: non-persistent-redis
 namespace: staging
 - name: redis
   image: redis
 - name: cache-control
     mountPath: /data/redis
 - name: cache-control
```

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THELINUX FOUNDATION

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 65 root@node-1:~#

B) solution

THELINUX FOUNDATION

*

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

```
Readme >_ Web Terminal
apiVersion: v1
kind: Pod
name: non-persistent-redis
 namespace: staging
 - name: redis
   image: redis
 - name: cache-control
     mountPath: /data/redis
 - name: cache-control
```

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THELINUX FOUNDATION

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THELINUX FOUNDATION

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 65 root@node-1:~#

Answer:

Question 7

Question Type: MultipleChoice

SIMULATION

A Kubernetes worker node, named wk8s-node-0 is in state NotReady. Investigate why this is the case, and perform any appropriate steps to bring the node to a Ready state, ensuring that any changes are made permanent.

You can ssh to the failed node using:

[student@node-1] \$ | ssh Wk8s-node-0

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

[student@w8ks-node-0] \$ | sudo --i

Options:

A) solution

THELINUX FOUNDATION

root@node-1:~#	kubectl con	nfig use-	context	wk8s
Switched to con	ntext "wk8s'	".		
root@node-1:~#	k get node:	5		
NAME	STATUS	ROLES	AGE	VERSION
wk8s-master-0	Ready	master	77d	v1.18.2
wk8s-node-0	NotReady	<none></none>	77d	v1.18.2
wk8s-node-1	Ready	<none></none>	77d	v1.18.2
root@node-1:~#	ssh wk8s-no	ode-0		

THELINUX FOUNDATION

wk8s-node-0 NotReady <none> 77d v1.18.2
wk8s-node-1 Ready <none> 77d v1.18.2
root@node-1:~# ssh wk8s-node-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@wk8s-node-0:~$ sudo -i
root@wk8s-node-0:~# systemctl restart kubelet
root@wk8s-node-0:~# systemctl enable kubelet
```

THELINUX FOUNDATION

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@wk8s-node-0:~\$ sudo -i root@wk8s-node-0:~\$ systemctl restart kubelet root@wk8s-node-0:~\$ systemctl enable kubelet Created symlink from /etc/systemd/system/multi-user.target.wants/kubelet.service to /lib/sys temd/system/kubelet.service. root@wk8s-node-0:~\$ exit

B) solution

THELINUX FOUNDATION

root@node-1:~#	kubectl con	nfig use-	context	wk8s
Switched to con	ntext "wk8s'	".		
root@node-1:~#	k get node:	5		
NAME	STATUS	ROLES	AGE	VERSION
wk8s-master-0	Ready	master	77d	v1.18.2
wk8s-node-0	NotReady	<none></none>	77d	v1.18.2
wk8s-node-1	Ready	<none></none>	77d	v1.18.2
root@node-1:~#	ssh wk8s-no	ode-0		

THELINUX FOUNDATION

wk8s-node-0 NotReady <none> 77d v1.18.2
wk8s-node-1 Ready <none> 77d v1.18.2
root@node-1:~# ssh wk8s-node-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@wk8s-node-0:~$ sudo -i
root@wk8s-node-0:~# systemctl restart kubelet
root@wk8s-node-0:~# systemctl enable kubelet
```

THELINUX FOUNDATION

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@wk8s-node-0:~\$ sudo -i
root@wk8s-node-0:~\$ systemctl restart kubelet
croot@wk8s-node-0:~\$ systemctl enable kubelet
Created symlink from /etc/systemd/system/multi-user.target.wants/kubelet.service to /lib/sys
temd/system/kubelet.service.
root@wk8s-node-0:~\$ exit

Answer:

А

Question 8

SIMULATION

Set the node named ek8s-node-1 as unavailable and reschedule all the pods running on it.

Options:

A) solution

THELINUX FOUNDATION

root@node-1:-# kubectl config use-context ek8s Switched to context "ek8s". root@node-1:-# k drain ek8s-node-1 --ignore-daemonsets --delete-local-data --force node/ek8s-node-1 cordoned WARNING: ignoring DaemonSet-managed Pods: kube-system/kube-flannel-ds-amd64-qj7w8, kube-syst

B) solution

THELINUX FOUNDATION

root@node-1:-# kubectl config use-context ek8s Switched to context "ek8s". root@node-1:-# k drain ek8s-node-1 --ignore-daemonsets --delete-local-data --force node/ek8s-node-1 cordoned WARNING: ignoring DaemonSet-managed Pods: kube-system/kube-flannel-ds-amd64-qj7w8, kube-syst =

Answer:

А

Question 9

SIMULATION

Create a deployment as follows:

* Name: nginx-random

* Exposed via a service nginx-random

* Ensure that the service & pod are accessible via their respective DNS records

* The container(s) within any pod(s) running as a part of this deployment should use the nginx Image

Next, use the utility nslookup to look up the DNS records of the service & pod and write the output to /opt/KUNW00601/service.dns and /opt/KUNW00601/pod.dns respectively.

Options:

A) Solution:

THELINUX FOUNDATION

root@node-1:~#
root@node-1:~# k create deploy nginx-random --image=nginx
deployment.apps/nginx-random created
root@node-1:~# k expose deploy nginx-random --name=nginx-random --port=80 --target-port=80
service/nginx-random exposed
root@node-1:~# vim dns.yam

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THELINUX FOUNDATION

apiVersion: vl	^
kind: Pod	
metadata:	
name: busybox1	
labels:	
name: busybox	
spec:	
containers:	
- image: busybox:1.28	
command:	
- sleep	
- "3600"	
name: busybox	
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THELINUX FOUNDATION

root@node-1:~# k create deploy nginx-random --image=nginx deployment.apps/nginx-random created root@node-1:~# k expose deploy nginx-random --name=nginx-random --port=80 --target-port=80 service/nginx-random exposed root@node-1:~# vim dns.yaml root@node-1:~# k create -f dns.yaml pod/busybox1 created root@node-1:~# k get po -o wide | grep nginx-random nginx-random-6d5766bbdc-ptzv2 1/1 Running 0 103s 10.244.2.16 k8s-node-1 <none> <none> root@node-1:~# k exec -it busybox1 -- nslookup nginx-random Server: 10.96.0.10 Address 1: 10.96.0.10 kube-dns.kube-system.svc.cluster.local

B) Solution:

THELINUX FOUNDATION

root@node-1:~#
root@node-1:~# k create deploy nginx-random --image=nginx
deployment.apps/nginx-random created
root@node-1:~# k expose deploy nginx-random --name=nginx-random --port=80 --target-port=80
service/nginx-random exposed
root@node-1:~# vim dns.yam

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THELINUX FOUNDATION

apiVersion: vl	^
kind: Pod	
metadata:	
name: busybox1	
labels:	
name: busybox	
spec:	
containers:	
- image: busybox:1.28	
command:	
- sleep	
- "3600"	
name: busybox	
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THELINUX FOUNDATION

root@node-1:~# k create deploy nginx-random --image=nginx deployment.apps/nginx-random created root@node-1:~# k expose deploy nginx-random --name=nginx-random --port=80 --target-port=80 service/nginx-random exposed root@node-1:~# vim dns.yaml root@node-1:~# k create -f dns.yaml pod/busybox1 created root@node-1:~# k get po -o wide | grep nginx-random nginx-random-6d5766bbdc-ptzv2 1/1 Running 0 103s 10.244.2.16 k8s-node-1 <none> <none> root@node-1:~# k exec -it busybox1 -- nslookup nginx-random Server: 10.96.0.10 Address 1: 10.96.0.10 kube-dns.kube-system.svc.cluster.local

Answer:

А

Question 10

Question Type: MultipleChoice

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).

Options:

A) solution

THELINUX FOUNDATION

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root@node-1:~# k top	po -l name=o	pu-utilizer
NAME	CPU(cores)	MEMORY (bytes)
cpu-utilizer-98b9se	60m	7Mi
cpu-utilizer-ab2d3s	14m	7Mi

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	010 (00100)	timetoric (m] cent	
zer-98b9se	60m	7Mi	
er-ab2d3s	14m	7Mi	

THELINUX FOUNDATION

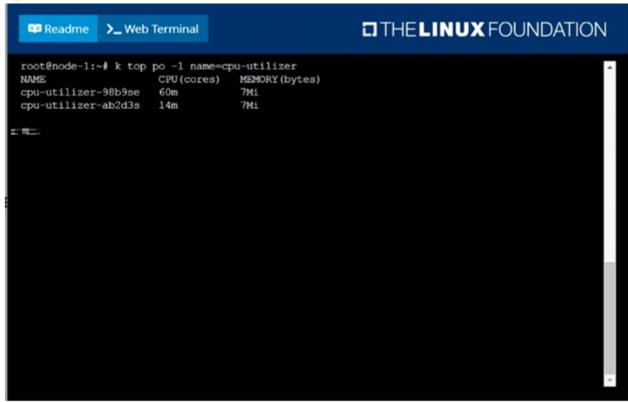
cpu-utilizer-98b9se

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B) solution



THELINUX FOUNDATION

cpu-utilizer-98b9se

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~

- ~
- nu -

- ~
- ~
- ~
- N2
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- ~
- ~
- Ny .
- ~
- ~
- ~
- :wq

.

Answer:

А

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