

[Learn more](#)

17:53
30/03/2022

Instances: **i-06a83eac22b9803a2 (Kuber-worker)**, **i-09c6ddd37a95911c2 (Kuber-master)**

Description | Status Checks | Monitoring | Tags

- i-06a83eac22b9803a2: ec2-184-72-107-113.compute-1.amazonaws.com
- i-09c6ddd37a95911c2: ec2-52-201-231-27.compute-1.amazonaws.com



```
root@ip-172-31-25-208:~# ls
external-storage  persistent.yml  redis.yml  snap  website
root@ip-172-31-25-208:~#
```



```
root@ip-172-31-25-208: ~  
root@ip-172-31-25-208:~# vi persistent.yml  
root@ip-172-31-25-208:~# kubectl apply -f persistent.yml  
persistentvolume/counterapp created  
persistentvolumeclaim/counterapp created  
pod/pod-ais created  
root@ip-172-31-25-208:~# kubectl get deploy  
NAME                READY   UP-TO-DATE   AVAILABLE   AGE  
kubernetes-bootcamp 1/1     1            1           24m  
root@ip-172-31-25-208:~# kubectl get pods  
NAME                                READY   STATUS    RESTARTS   AGE  
kubernetes-bootcamp-59d54f7f6f-gj9hl 1/1     Running   0          24m  
pod-ais                               1/1     Running   0          2m25s  
root@ip-172-31-25-208:~# kubectl exec -it pod-ais bash  
kubectl exec [POD] [COMMAND] is DEPRECATED and will be removed in a future version. Use kubectl exec [POD] -- [COMMAND] instead.  
root@pod-ais:/data# ls -alrt  
total 8  
drwxr-xr-x 2 redis root 4096 Mar 30 11:55 .  
drwxr-xr-x 1 root  root 4096 Mar 30 11:55 ..  
root@pod-ais:/data# redis-cli  
127.0.0.1:6379> set name mohit  
OK  
127.0.0.1:6379> get name  
"mohit"  
127.0.0.1:6379> save  
OK  
127.0.0.1:6379> exit  
root@pod-ais:/data# ls -alrt  
total 12  
drwxr-xr-x 1 root  root  4096 Mar 30 11:55 ..  
-rw-r--r-- 1 redis redis  109 Mar 30 12:02 dump.rdb  
drwxr-xr-x 2 redis root  4096 Mar 30 12:02 .  
root@pod-ais:/data# exit
```



```
root@ip-172-31-25-208:~# vi persistent.yml
```

```
apiVersion: v1
```

```
kind: PersistentVolume
```

```
metadata:
```

```
  name: counterapp
```

```
  labels:
```

```
    type: hostpath
```

```
spec:
```

```
  capacity:
```

```
    storage: 2Gi
```

```
  accessModes:
```

```
    - ReadWriteMany
```

```
  storageClassName: ""
```

```
  persistentVolumeReclaimPolicy: Delete
```

```
  hostPath:
```

```
    type: DirectoryOrCreate
```

```
    path: "/opt/counterapp"
```

```
---
```

```
kind: PersistentVolumeClaim
```

```
apiVersion: v1
```

```
metadata:
```

```
  name: counterapp
```

```
spec:
```

```
  accessModes:
```

```
    - ReadWriteMany
```

```
  storageClassName: ""
```

```
  resources:
```

```
    requests:
```

```
      storage: 500Mi
```

```
---
```



```
---  
kind: PersistentVolumeClaim  
apiVersion: v1  
metadata:  
  name: counterapp  
spec:  
  accessModes:  
    - ReadWriteMany  
  storageClassName: ""  
resources:  
  requests:  
    storage: 500Mi  
---
```

```
apiVersion: v1  
kind: Pod  
metadata:  
  name: pod-ais  
spec:  
  containers:  
    - name: countainer  
      image: redis  
      volumeMounts:  
        - mountPath: /data  
          name: redis-data  
  volumes:  
    - name: redis-data  
      persistentVolumeClaim:  
        claimName: counterapp
```

48,14

Bot



```
root@ip-172-31-25-208: ~  
root@ip-172-31-25-208:~# vi redis.yml  
root@ip-172-31-25-208:~# kubectl get pods  
NAME                                READY   STATUS    RESTARTS   AGE  
kubernetes-bootcamp-59d54f7f6f-gj9hl 1/1     Running   0           37m  
pod-ais                              1/1     Running   0           15m  
root@ip-172-31-25-208:~# kubectl delete pod pod-ais  
pod "pod-ais" deleted  
root@ip-172-31-25-208:~# kubectl get pods  
NAME                                READY   STATUS    RESTARTS   AGE  
kubernetes-bootcamp-59d54f7f6f-gj9hl 1/1     Running   0           40m  
root@ip-172-31-25-208:~# kubectl apply -f redis.yml  
pod/pod-ais created  
root@ip-172-31-25-208:~# kubectl get pods  
NAME                                READY   STATUS    RESTARTS   AGE  
kubernetes-bootcamp-59d54f7f6f-gj9hl 1/1     Running   0           41m  
pod-ais                              1/1     Running   0           18s  
root@ip-172-31-25-208:~# kubectl exec -it pod-ais bash  
kubectl exec [POD] [COMMAND] is DEPRECATED and will be removed in a future version. Use kubectl exec [POD] -- [COMMAND] instead.  
root@pod-ais:/data# redis-cli  
127.0.0.1:6379> get name  
(nil)  
127.0.0.1:6379> exit  
root@pod-ais:/data# exit  
exit  
root@ip-172-31-25-208:~# kubectl get pods  
NAME                                READY   STATUS    RESTARTS   AGE  
kubernetes-bootcamp-59d54f7f6f-gj9hl 1/1     Running   0           44m  
pod-ais                              1/1     Running   0           3m34s  
root@ip-172-31-25-208:~# kubectl delete pod pod-ais  
pod "pod-ais" deleted  
root@ip-172-31-25-208:~# vi redis.yml  
root@ip-172-31-25-208:~# kubectl apply -f redis.yml
```

15,29 All


```
root@ip-172-31-25-208: ~
127.0.0.1:6379> get name
(nil)
127.0.0.1:6379> exit
root@pod-ais:/data# exit
exit
root@ip-172-31-25-208:~# kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
kubernetes-bootcamp-59d54f7f6f-gj9hl 1/1     Running   0           44m
pod-ais                               1/1     Running   0           3m34s
root@ip-172-31-25-208:~# kubectl delete pod pod-ais
pod "pod-ais" deleted
root@ip-172-31-25-208:~# vi redis.yml
root@ip-172-31-25-208:~# kubectl apply -f redis.yml
pod/pod-ais created
root@ip-172-31-25-208:~# kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
kubernetes-bootcamp-59d54f7f6f-gj9hl 1/1     Running   0           46m
pod-ais                               1/1     Running   0           7s
root@ip-172-31-25-208:~# kubectl exec -it pod-ais bash
kubectl exec [POD] [COMMAND] is DEPRECATED and will be removed in a future version. Use kubectl exec [POD] -- [COMMAND] instead.
root@pod-ais:/data# redis-cli
127.0.0.1:6379> get name
"mohit"
127.0.0.1:6379> exit
root@pod-ais:/data# ls -alrt
total 12
-rw-r--r-- 1 redis redis 109 Mar 30 12:13 dump.rdb
drwxr-xr-x 2 redis root 4096 Mar 30 12:13 .
drwxr-xr-x 1 root root 4096 Mar 30 12:19 ..
root@pod-ais:/data# exit
exit
root@ip-172-31-25-208:~#
```




```
root@ip-172-31-25-208:~# vi secret.yml
```

```
apiVersion: v1
```

```
kind: Secret
```

```
metadata:
```

```
  name: secret-basic-auth
```

```
type: kubernetes.io/basic-auth
```

```
stringData:
```

```
  username: admin
```

```
  password: t0p-Secret
```

```
---
```

```
apiVersion: v1
```

```
kind: Secret
```

```
metadata:
```

```
  name: mysecret
```

```
type: Opaque
```

```
stringData:
```

```
  config.yaml: |
```

```
    apiUrl: "https://my.api.com/api/v1"
```

```
    username: admin
```

```
    password: secretpassword
```

```
---
```

```
apiVersion: v1
```

```
kind: Pod
```

```
metadata:
```

```
  name: mypod
```

```
spec:
```

```
  containers:
```

```
  - name: mypod
```

```
    image: redis
```



```
---  
apiVersion: v1  
kind: Secret  
metadata:  
  name: mysecret  
type: Opaque  
stringData:  
  config.yaml: |  
    apiUrl: "https://my.api.com/api/v1"  
    username: admin  
    password: secretpassword  
---
```

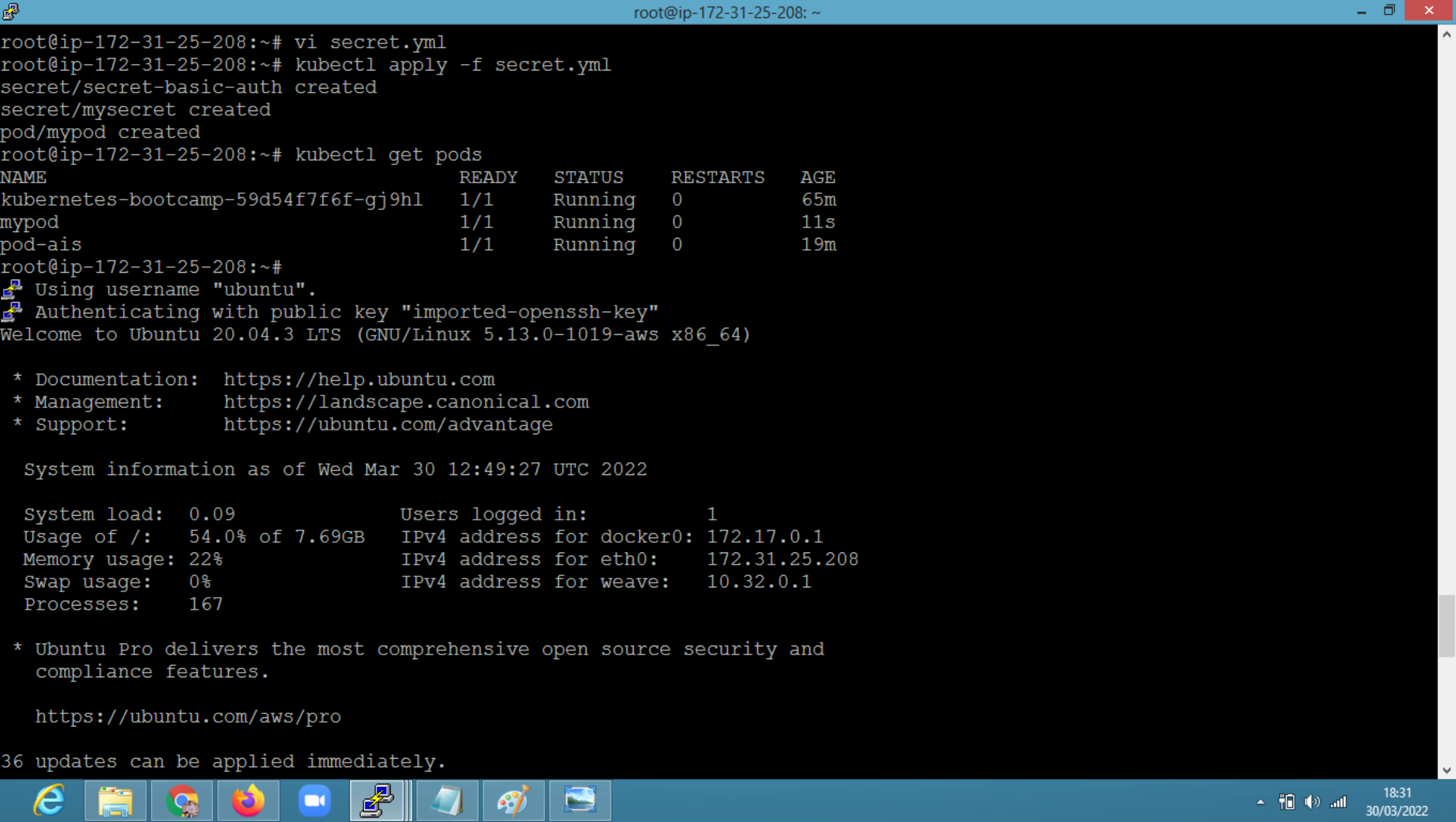
```
apiVersion: v1  
kind: Pod  
metadata:  
  name: mypod  
spec:  
  containers:  
  - name: mypod  
    image: redis  
    volumeMounts:  
    - name: secret-volume  
      mountPath: "/config"  
      readOnly: true  
  volumes:  
  - name: secret-volume  
    secret:  
      secretName: mysecret
```

```
-- INSERT --
```

40,14

Bot





```
root@ip-172-31-25-208:~# vi secret.yml
root@ip-172-31-25-208:~# kubectl apply -f secret.yml
secret/basic-auth created
secret/mysecret created
pod/mypod created
root@ip-172-31-25-208:~# kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
kubernetes-bootcamp-59d54f7f6f-gj9hl	1/1	Running	0	65m
mypod	1/1	Running	0	11s
pod-ais	1/1	Running	0	19m

```
root@ip-172-31-25-208:~#
Using username "ubuntu".
Authenticating with public key "imported-openssh-key"
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.13.0-1019-aws x86_64)
```

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

System information as of Wed Mar 30 12:49:27 UTC 2022

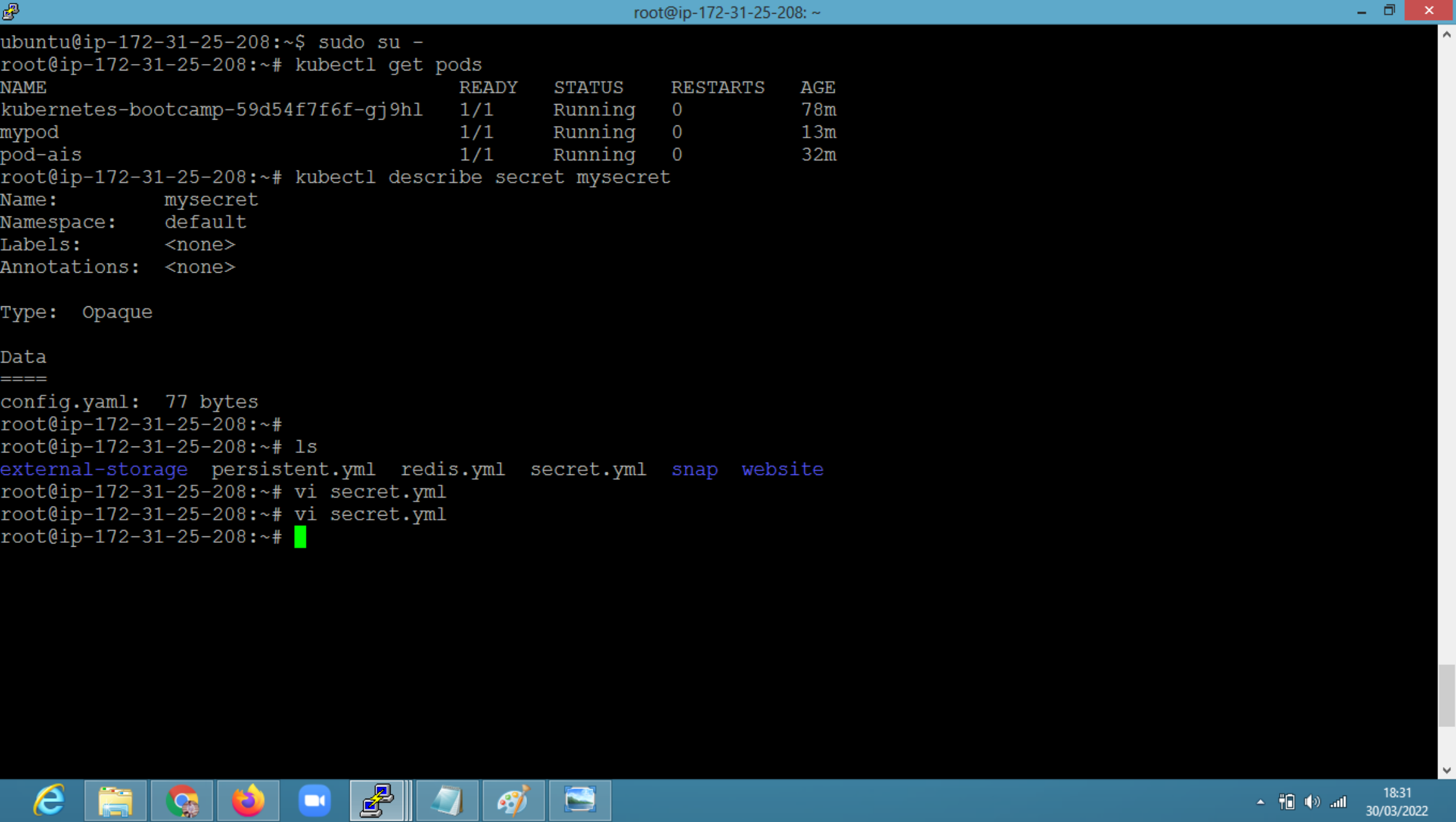
System load:	0.09	Users logged in:	1
Usage of /:	54.0% of 7.69GB	IPv4 address for docker0:	172.17.0.1
Memory usage:	22%	IPv4 address for eth0:	172.31.25.208
Swap usage:	0%	IPv4 address for weave:	10.32.0.1
Processes:	167		

```
* Ubuntu Pro delivers the most comprehensive open source security and
  compliance features.
```

<https://ubuntu.com/aws/pro>

36 updates can be applied immediately.





ubuntu@ip-172-31-25-208:~\$ sudo su -

root@ip-172-31-25-208:~# kubectl get pods

NAME	READY	STATUS	RESTARTS	AGE
kubernetes-bootcamp-59d54f7f6f-gj9hl	1/1	Running	0	78m
mypod	1/1	Running	0	13m
pod-ais	1/1	Running	0	32m

root@ip-172-31-25-208:~# kubectl describe secret mysecret

Name: mysecret
Namespace: default
Labels: <none>
Annotations: <none>

Type: Opaque

Data

====

config.yaml: 77 bytes

root@ip-172-31-25-208:~#

root@ip-172-31-25-208:~# ls

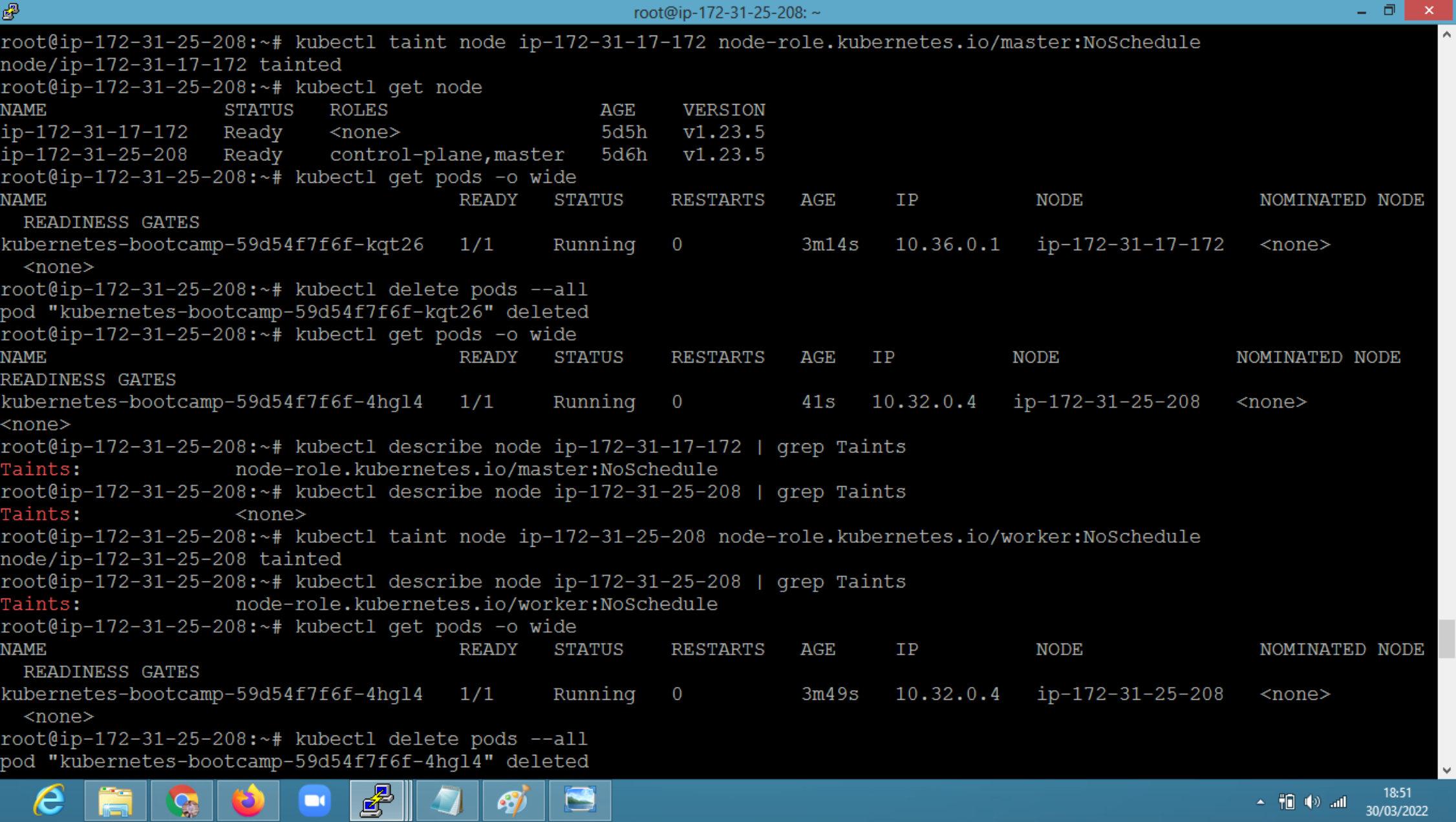
external-storage persistent.yml redis.yml secret.yml snap website

root@ip-172-31-25-208:~# vi secret.yml

root@ip-172-31-25-208:~# vi secret.yml

root@ip-172-31-25-208:~#





```
root@ip-172-31-25-208: ~
root@ip-172-31-25-208:~# kubectl taint node ip-172-31-17-172 node-role.kubernetes.io/master:NoSchedule
node/ip-172-31-17-172 tainted
root@ip-172-31-25-208:~# kubectl get node
NAME                STATUS    ROLES    AGE    VERSION
ip-172-31-17-172    Ready    <none>    5d5h   v1.23.5
ip-172-31-25-208    Ready    control-plane,master  5d6h   v1.23.5
root@ip-172-31-25-208:~# kubectl get pods -o wide
NAME                READY    STATUS    RESTARTS   AGE    IP            NODE                NOMINATED NODE
  READINESS GATES
kubernetes-bootcamp-59d54f7f6f-kqt26  1/1      Running    0           3m14s   10.36.0.1     ip-172-31-17-172    <none>
<none>
root@ip-172-31-25-208:~# kubectl delete pods --all
pod "kubernetes-bootcamp-59d54f7f6f-kqt26" deleted
root@ip-172-31-25-208:~# kubectl get pods -o wide
NAME                READY    STATUS    RESTARTS   AGE    IP            NODE                NOMINATED NODE
  READINESS GATES
kubernetes-bootcamp-59d54f7f6f-4hgl4  1/1      Running    0           41s     10.32.0.4     ip-172-31-25-208    <none>
<none>
root@ip-172-31-25-208:~# kubectl describe node ip-172-31-17-172 | grep Taints
Taints:                node-role.kubernetes.io/master:NoSchedule
root@ip-172-31-25-208:~# kubectl describe node ip-172-31-25-208 | grep Taints
Taints:                <none>
root@ip-172-31-25-208:~# kubectl taint node ip-172-31-25-208 node-role.kubernetes.io/worker:NoSchedule
node/ip-172-31-25-208 tainted
root@ip-172-31-25-208:~# kubectl describe node ip-172-31-25-208 | grep Taints
Taints:                node-role.kubernetes.io/worker:NoSchedule
root@ip-172-31-25-208:~# kubectl get pods -o wide
NAME                READY    STATUS    RESTARTS   AGE    IP            NODE                NOMINATED NODE
  READINESS GATES
kubernetes-bootcamp-59d54f7f6f-4hgl4  1/1      Running    0           3m49s   10.32.0.4     ip-172-31-25-208    <none>
<none>
root@ip-172-31-25-208:~# kubectl delete pods --all
pod "kubernetes-bootcamp-59d54f7f6f-4hgl4" deleted
```