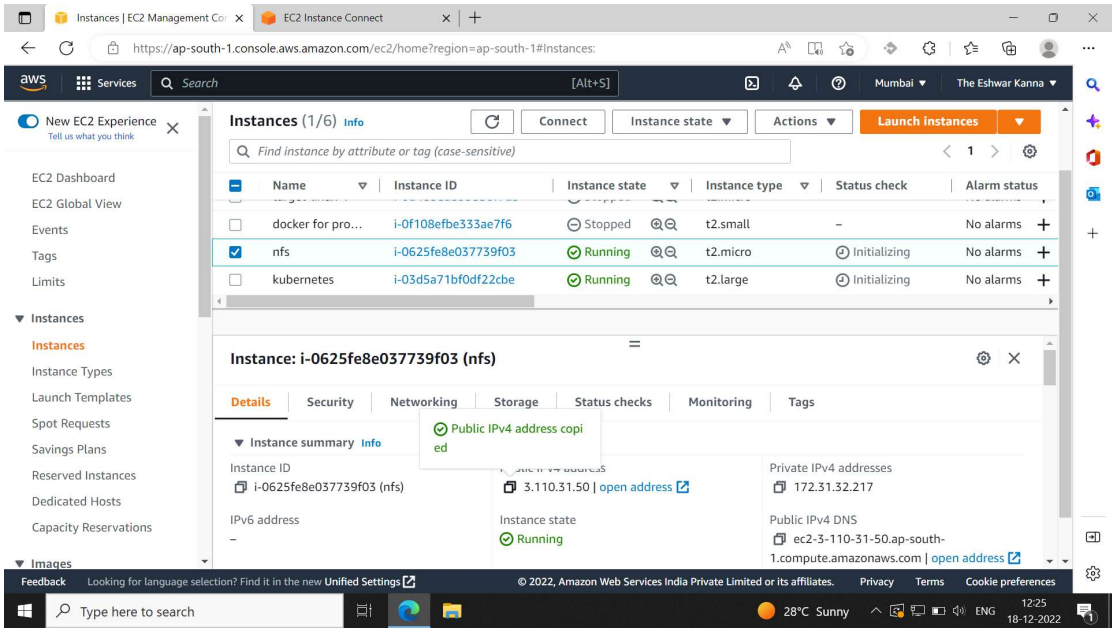
Instances | EC2 Management Co
EC2 Instance Connect
https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:
Services
Search
[Alt+S]
Mumbai
The Eshwar Kanna
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
Instances (1/6) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
docker for pro...
i-0f108efbe333ae7f6
Stopped
t2.small
No alarms
nfs
i-0625fe8e037739f03
Running
t2.micro
Initializing
No alarms
kubernetes
i-03d5a71bf0df22cbe
Running
t2.large
Initializing
No alarms
Instance: i-0625fe8e037739f03 (nfs)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Public IPv4 address copied
Instance summary Info
Instance ID
i-0625fe8e037739f03 (nfs)
3.110.31.50 | open address
Private IPv4 addresses
172.31.32.217
IPv6 address
Instance state
Running
Public IPv4 DNS
ec2-3-110-31-50.ap-south-1.compute.amazonaws.com | open address
Feedback
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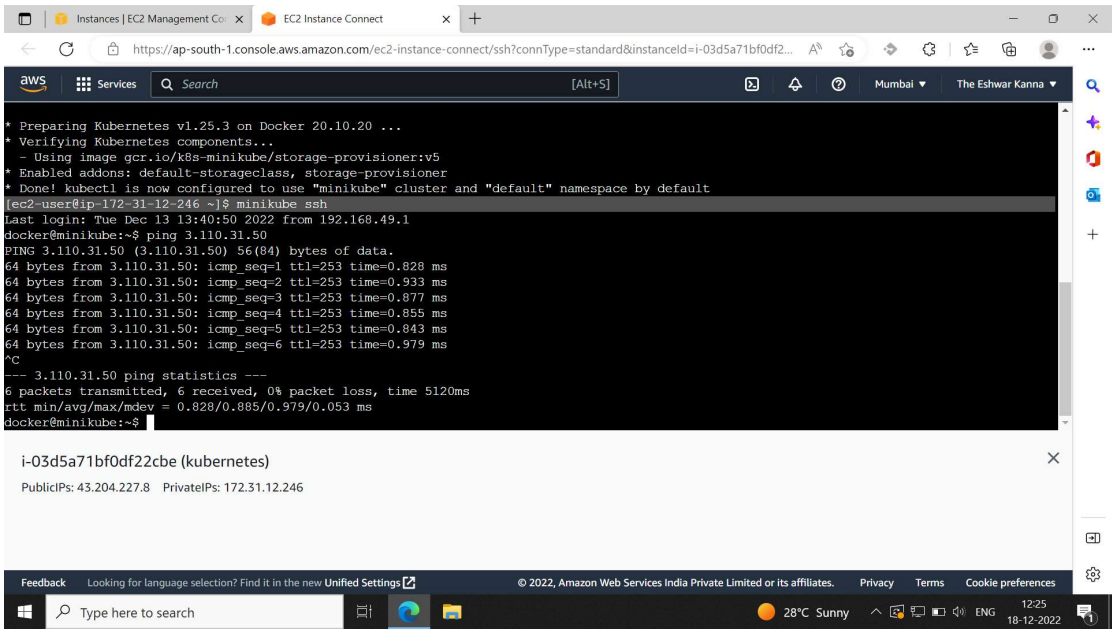
28°C Sunny
ENG
12:25
18-12-2022


Instances | EC2 Management Co
EC2 Instance Connect
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-03d5a71bf0df2...
Services
Search
[Alt+S]
Mumbai
The Eshwar Kanna
* Preparing Kubernetes v1.25.3 on Docker 20.10.20 ...
* Verifying Kubernetes components...
- Using image gcr.io/k8s-minikube/storage-provisioner:v5
* Enabled addons: default-storageclass, storage-provisioner
* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
[ec2-user@ip-172-31-12-246 ~]$ minikube ssh
Last login: Tue Dec 13 13:40:50 2022 from 192.168.49.1
docker@minikube:~$ ping 3.110.31.50
PING 3.110.31.50 (3.110.31.50) 56(84) bytes of data.
64 bytes from 3.110.31.50: icmp_seq=1 ttl=253 time=0.828 ms
64 bytes from 3.110.31.50: icmp_seq=2 ttl=253 time=0.933 ms
64 bytes from 3.110.31.50: icmp_seq=3 ttl=253 time=0.877 ms
64 bytes from 3.110.31.50: icmp_seq=4 ttl=253 time=0.855 ms
64 bytes from 3.110.31.50: icmp_seq=5 ttl=253 time=0.843 ms
64 bytes from 3.110.31.50: icmp_seq=6 ttl=253 time=0.979 ms
^C
--- 3.110.31.50 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5120ms
rtt min/avg/max/mdev = 0.828/0.885/0.979/0.053 ms
docker@minikube:~$
i-03d5a71bf0df22cbe (kubernetes)
PublicIPs: 43.204.227.8 PrivateIPs: 172.31.12.246
Feedback
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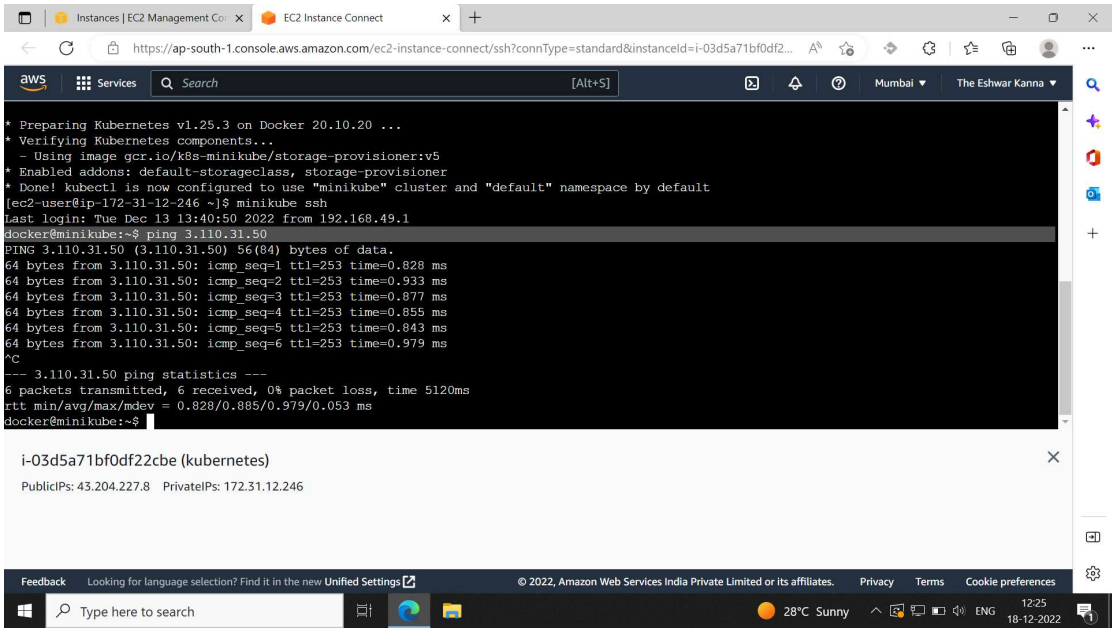
ENG
12:25
18-12-2022


Instances | EC2 Management Co
EC2 Instance Connect
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-03d5a71bf0df2...
aws
Services
Search
[Alt+S]
Mumbai
The Eshwar Kanna
* Preparing Kubernetes v1.25.3 on Docker 20.10.20 ...
* Verifying Kubernetes components...
- Using image gcr.io/k8s-minikube/storage-provisioner:v5
* Enabled addons: default-storageclass, storage-provisioner
* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
[ec2-user@ip-172-31-12-246 ~]$ minikube ssh
Last login: Tue Dec 13 13:40:50 2022 from 192.168.49.1
docker@minikube:~$ ping 3.110.31.50
PING 3.110.31.50 (3.110.31.50) 56(84) bytes of data.
64 bytes from 3.110.31.50: icmp_seq=1 ttl=253 time=0.828 ms
64 bytes from 3.110.31.50: icmp_seq=2 ttl=253 time=0.933 ms
64 bytes from 3.110.31.50: icmp_seq=3 ttl=253 time=0.877 ms
64 bytes from 3.110.31.50: icmp_seq=4 ttl=253 time=0.855 ms
64 bytes from 3.110.31.50: icmp_seq=5 ttl=253 time=0.843 ms
64 bytes from 3.110.31.50: icmp_seq=6 ttl=253 time=0.979 ms
^C
--- 3.110.31.50 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5120ms
rtt min/avg/max/mdev = 0.828/0.885/0.979/0.053 ms
docker@minikube:~$
i-03d5a71bf0df22cbe (kubernetes)
PublicIPs: 43.204.227.8 PrivateIPs: 172.31.12.246
Feedback
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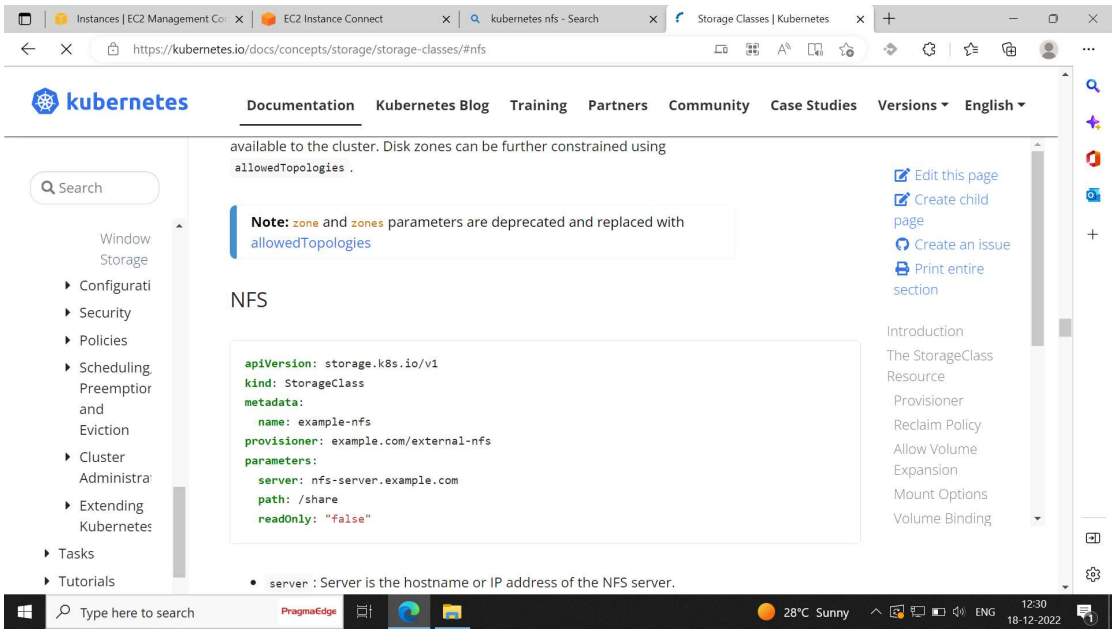
18-12-2022


Instances | EC2 Management Co
EC2 Instance Connect
kubernetes nfs - Search
Storage Classes | Kubernetes
https://kubernetes.io/docs/concepts/storage/storage-classes/#nfs
kubernetes
Documentation
Kubernetes Blog
Training
Partners
Community
Case Studies
Versions
English
Search
Window
Storage
Configurati
Security
Policies
Scheduling
Preemptior
and
Eviction
Cluster
Administra
Extending
Kubernetes
Tasks
Tutorials
available to the cluster. Disk zones can be further constrained using
allowedTopologies .
Note: zone and zones parameters are deprecated and replaced with
allowedTopologies
NFS
apiVersion: storage.k8s.io/v1
kind: StorageClass
metadata:
name: example-nfs
provisioner: example.com/external-nfs
parameters:
server: nfs-server.example.com
path: /share
readOnly: "false"
server : Server is the hostname or IP address of the NFS server.
Edit this page
Create child page
Create an issue
Print entire section
Introduction
The StorageClass Resource
Provisioner
Reclaim Policy
Allow Volume Expansion
Mount Options
Volume Binding
Type here to search
PragmaEdge
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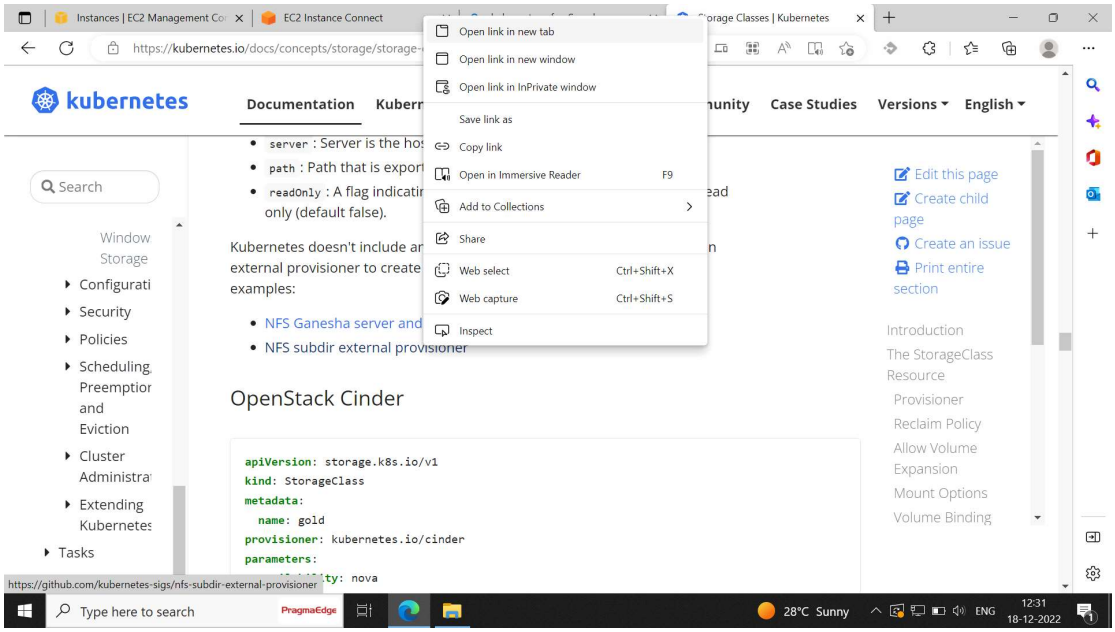
12:30
18-12-2022


Open link in new tab
Open link in new window
Open link in InPrivate window
Save link as
Copy link
Open in Immersive Reader F9
Add to Collections
Share
Web select Ctrl+Shift+X
Web capture Ctrl+Shift+S
Inspect
https://kubernetes.io/docs/concepts/storage/storage-
kubernetes
Documentation
Case Studies
Versions
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Print entire section
Introduction
The StorageClass Resource
Provisioner
Reclaim Policy
Allow Volume Expansion
Mount Options
Volume Binding
Configurati
Security
Policies
Scheduling, Preemptior and Eviction
Cluster Administra
Extending Kubernetes
Tasks
NFS Ganesha server and
NFS subdir external provisioner
OpenStack Cinder
apiVersion: storage.k8s.io/v1
kind: StorageClass
metadata:
name: gold
provisioner: kubernetes.io/cinder
parameters:
https://github.com/kubernetes-sigs/nfs-subdir-external-provisioner
Type here to search
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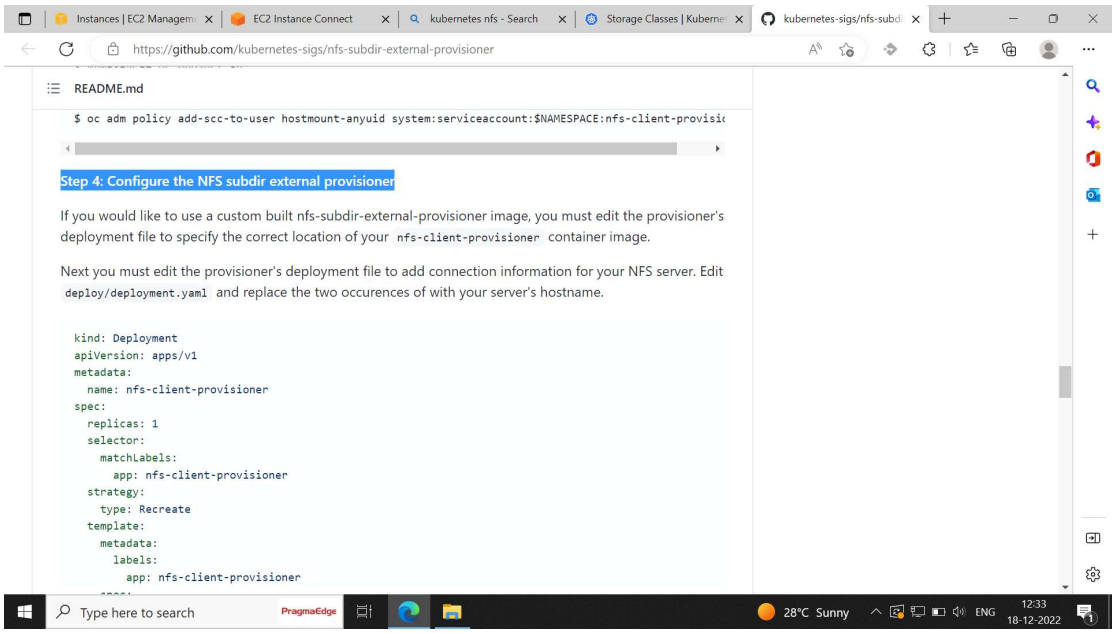
12:31
18-12-2022


https://github.com/kubernetes-sigs/nfs-subdir-external-provisioner
README.md
$ oc adm policy add-scc-to-user hostmount-anyuid system:serviceaccount:$NAMESPACE:nfs-client-provisi
Step 4: Configure the NFS subdir external provisioner
If you would like to use a custom built nfs-subdir-external-provisioner image, you must edit the provisioner's deployment file to specify the correct location of your nfs-client-provisioner container image.
Next you must edit the provisioner's deployment file to add connection information for your NFS server. Edit deploy/deployment.yaml and replace the two occurences of with your server's hostname.
kind: Deployment
apiVersion: apps/v1
metadata:
name: nfs-client-provisioner
spec:
replicas: 1
selector:
matchLabels:
app: nfs-client-provisioner
strategy:
type: Recreate
template:
metadata:
labels:
app: nfs-client-provisioner
Type here to search
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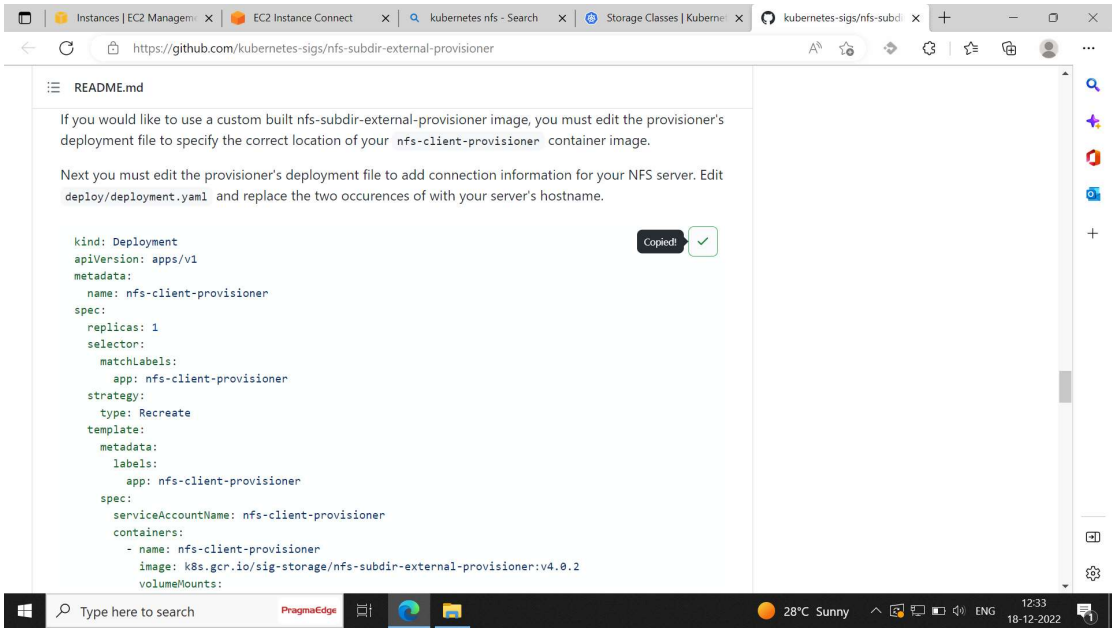
ENG
12:33
18-12-2022


https://github.com/kubernetes-sigs/nfs-subdir-external-provisioner
README.md
If you would like to use a custom built nfs-subdir-external-provisioner image, you must edit the provisioner's deployment file to specify the correct location of your nfs-client-provisioner container image.
Next you must edit the provisioner's deployment file to add connection information for your NFS server. Edit deploy/deployment.yaml and replace the two occurences of with your server's hostname.
Copied!
kind: Deployment
apiVersion: apps/v1
metadata:
name: nfs-client-provisioner
spec:
replicas: 1
selector:
matchLabels:
app: nfs-client-provisioner
strategy:
type: Recreate
template:
metadata:
labels:
app: nfs-client-provisioner
spec:
serviceAccountName: nfs-client-provisioner
containers:
- name: nfs-client-provisioner
image: k8s.gcr.io/sig-storage/nfs-subdir-external-provisioner:v4.0.2
volumeMounts:
Type here to search
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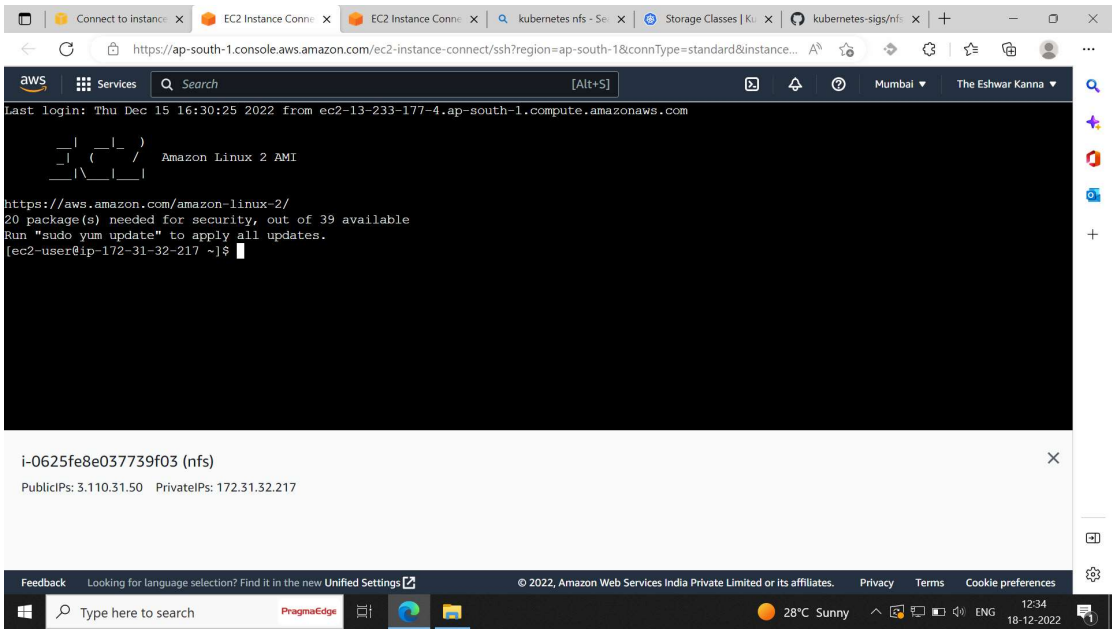
ENG
12:33
18-12-2022


https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instance...
Services
Search
[Alt+S]
Mumbai
The Eshwar Kanna
Last login: Thu Dec 15 16:30:25 2022 from ec2-13-233-177-4.ap-south-1.compute.amazonaws.com
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
20 package(s) needed for security, out of 39 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-32-217 ~]$
i-0625fe8e037739f03 (nfs)
PublicIPs: 3.110.31.50 PrivateIPs: 172.31.32.217
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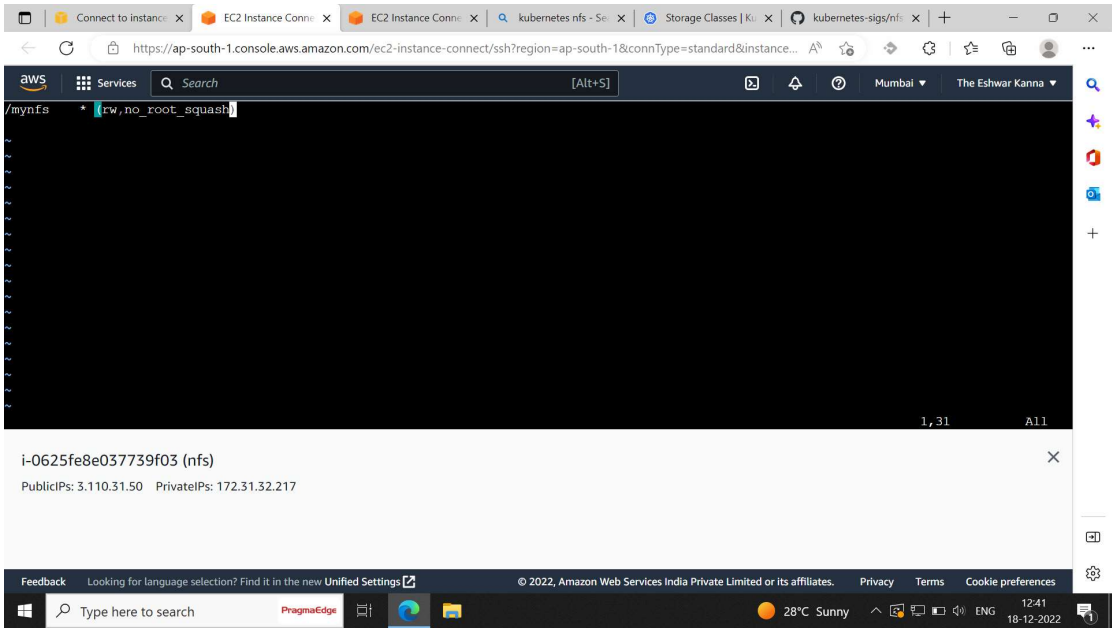
ENG
12:34
18-12-2022


Connect to instance
EC2 Instance Conne
EC2 Instance Conne
kubernetes nfs - Se
Storage Classes | Ku
kubernetes-sigs/nfs
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instance...
aws
Services
Search
[Alt+S]
Mumbai
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/mynfs * (rw,no_root_squash)
1,31 All
i-0625fe8e037739f03 (nfs)
PublicIPs: 3.110.31.50 PrivateIPs: 172.31.32.217
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ENG
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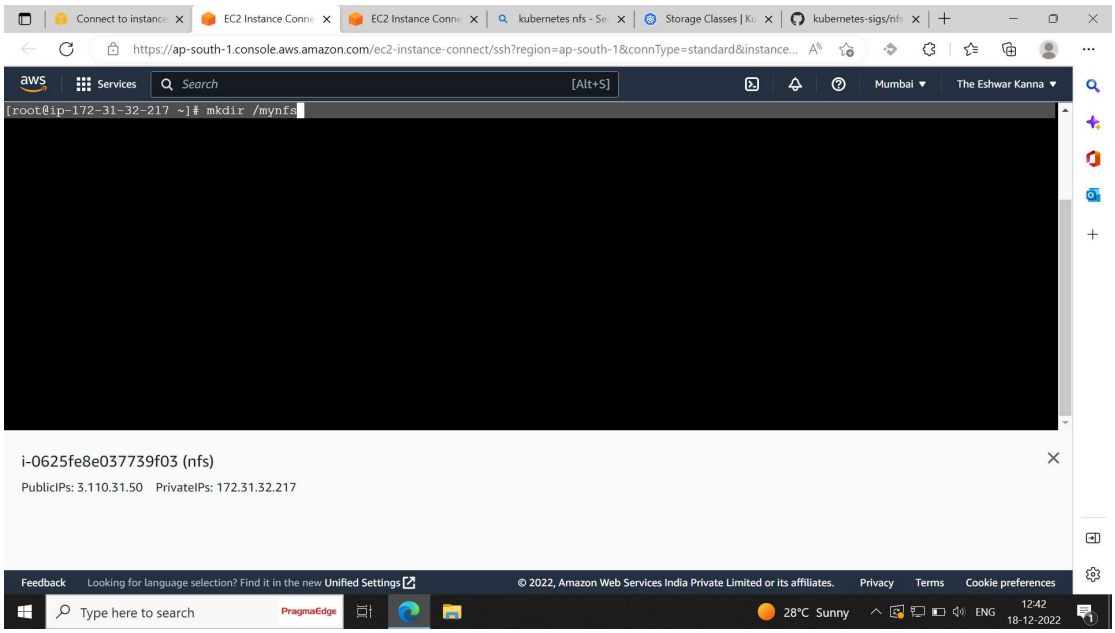
Connect to instance
EC2 Instance Conne
EC2 Instance Conne
kubernetes nfs - Se
Storage Classes | Ku
kubernetes-sigs/nfs
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instance...
aws
Services
Search
[Alt+S]
Mumbai
The Eshwar Kanna
[root@ip-172-31-32-217 ~]# mkdir /mynfs
i-0625fe8e037739f03 (nfs)
PublicIPs: 3.110.31.50 PrivateIPs: 172.31.32.217
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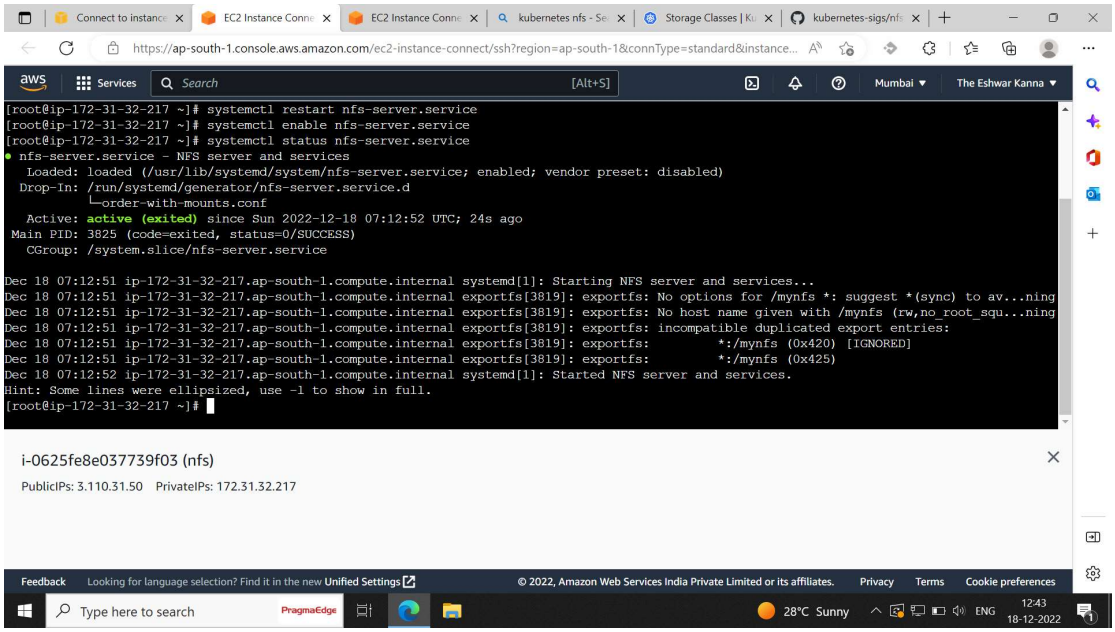
PragmaEdge
28°C Sunny
ENG
12:42
18-12-2022


Connect to instance
EC2 Instance Conne
EC2 Instance Conne
kubernetes nfs - Se
Storage Classes | Ku
kubernetes-sigs/nfs
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instance...
aws
Services
Search
[Alt+S]
Mumbai
The Eshwar Kanna
[root@ip-172-31-32-217 ~]# systemctl restart nfs-server.service
[root@ip-172-31-32-217 ~]# systemctl enable nfs-server.service
[root@ip-172-31-32-217 ~]# systemctl status nfs-server.service
● nfs-server.service - NFS server and services
Loaded: loaded (/usr/lib/systemd/system/nfs-server.service; enabled; vendor preset: disabled)
Drop-In: /run/systemd/generator/nfs-server.service.d
└order-with-mounts.conf
Active: active (exited) since Sun 2022-12-18 07:12:52 UTC; 24s ago
Main PID: 3825 (code=exited, status=0/SUCCESS)
CGroup: /system.slice/nfs-server.service
Dec 18 07:12:51 ip-172-31-32-217.ap-south-1.compute.internal systemd[1]: Starting NFS server and services...
Dec 18 07:12:51 ip-172-31-32-217.ap-south-1.compute.internal exportfs[3819]: exportfs: No options for /mynfs *: suggest *(sync) to av...ning
Dec 18 07:12:51 ip-172-31-32-217.ap-south-1.compute.internal exportfs[3819]: exportfs: No host name given with /mynfs (rw,no_root_squ...ning
Dec 18 07:12:51 ip-172-31-32-217.ap-south-1.compute.internal exportfs[3819]: exportfs: incompatible duplicated export entries:
Dec 18 07:12:51 ip-172-31-32-217.ap-south-1.compute.internal exportfs[3819]: exportfs: *:/mynfs (0x420) [IGNORED]
Dec 18 07:12:51 ip-172-31-32-217.ap-south-1.compute.internal exportfs[3819]: exportfs: *:/mynfs (0x425)
Dec 18 07:12:52 ip-172-31-32-217.ap-south-1.compute.internal systemd[1]: Started NFS server and services.
Hint: Some lines were ellipsized, use -l to show in full.
[root@ip-172-31-32-217 ~]#
i-0625fe8e037739f03 (nfs)
PublicIPs: 3.110.31.50 PrivateIPs: 172.31.32.217
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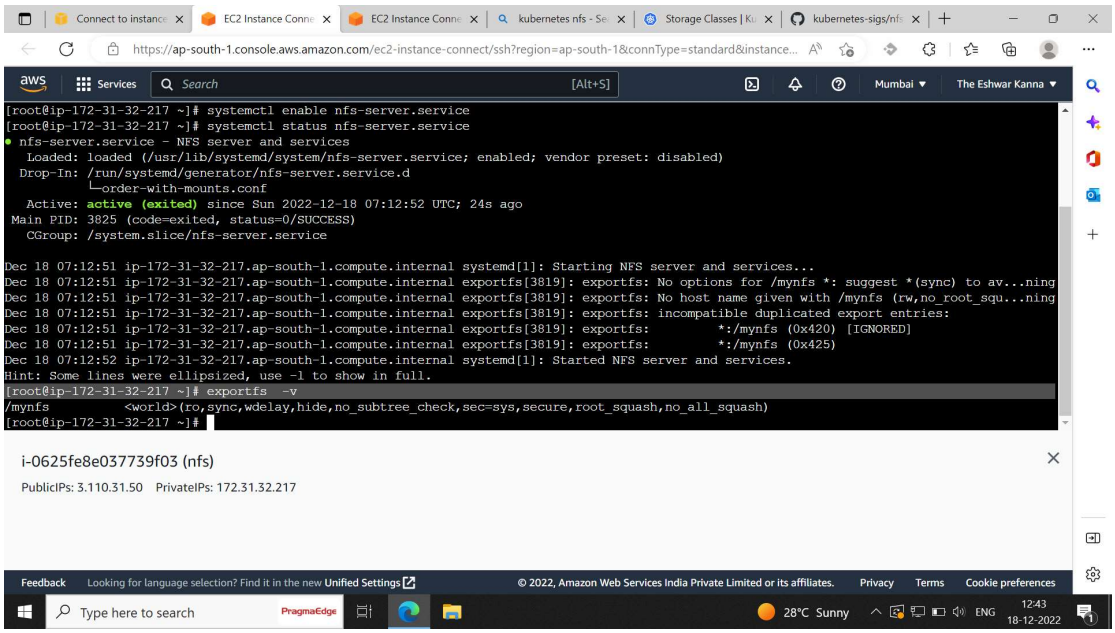
ENG
12:43
18-12-2022


Connect to instance
EC2 Instance Conne
EC2 Instance Conne
kubernetes nfs - Se
Storage Classes | Ku
kubernetes-sigs/nfs
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instance...
aws
Services
Search
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Mumbai
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[root@ip-172-31-32-217 ~]# systemctl enable nfs-server.service
[root@ip-172-31-32-217 ~]# systemctl status nfs-server.service
● nfs-server.service - NFS server and services
Loaded: loaded (/usr/lib/systemd/system/nfs-server.service; enabled; vendor preset: disabled)
Drop-In: /run/systemd/generator/nfs-server.service.d
└order-with-mounts.conf
Active: active (exited) since Sun 2022-12-18 07:12:52 UTC; 24s ago
Main PID: 3825 (code=exited, status=0/SUCCESS)
CGroup: /system.slice/nfs-server.service
Dec 18 07:12:51 ip-172-31-32-217.ap-south-1.compute.internal systemd[1]: Starting NFS server and services...
Dec 18 07:12:51 ip-172-31-32-217.ap-south-1.compute.internal exportfs[3819]: exportfs: No options for /mynfs *: suggest *(sync) to av...ning
Dec 18 07:12:51 ip-172-31-32-217.ap-south-1.compute.internal exportfs[3819]: exportfs: No host name given with /mynfs (rw,no_root_squ...ning
Dec 18 07:12:51 ip-172-31-32-217.ap-south-1.compute.internal exportfs[3819]: exportfs: incompatible duplicated export entries:
Dec 18 07:12:51 ip-172-31-32-217.ap-south-1.compute.internal exportfs[3819]: exportfs: *:/mynfs (0x420) [IGNORED]
Dec 18 07:12:51 ip-172-31-32-217.ap-south-1.compute.internal exportfs[3819]: exportfs: *:/mynfs (0x425)
Dec 18 07:12:52 ip-172-31-32-217.ap-south-1.compute.internal systemd[1]: Started NFS server and services.
Hint: Some lines were ellipsized, use -l to show in full.
[root@ip-172-31-32-217 ~]# exportfs -v
/mynfs <world>(ro,sync,wdelay,hide,no_subtree_check,sec=sys,secure,root_squash,no_all_squash)
[root@ip-172-31-32-217 ~]#
i-0625fe8e037739f03 (nfs)
PublicIPs: 3.110.31.50 PrivateIPs: 172.31.32.217
Feedback
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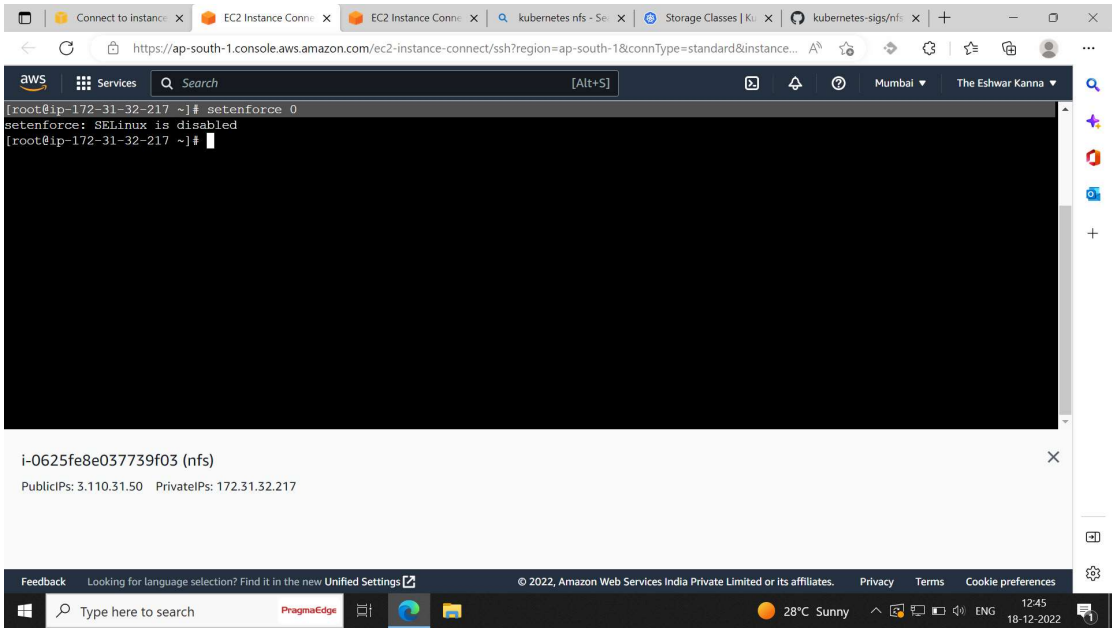
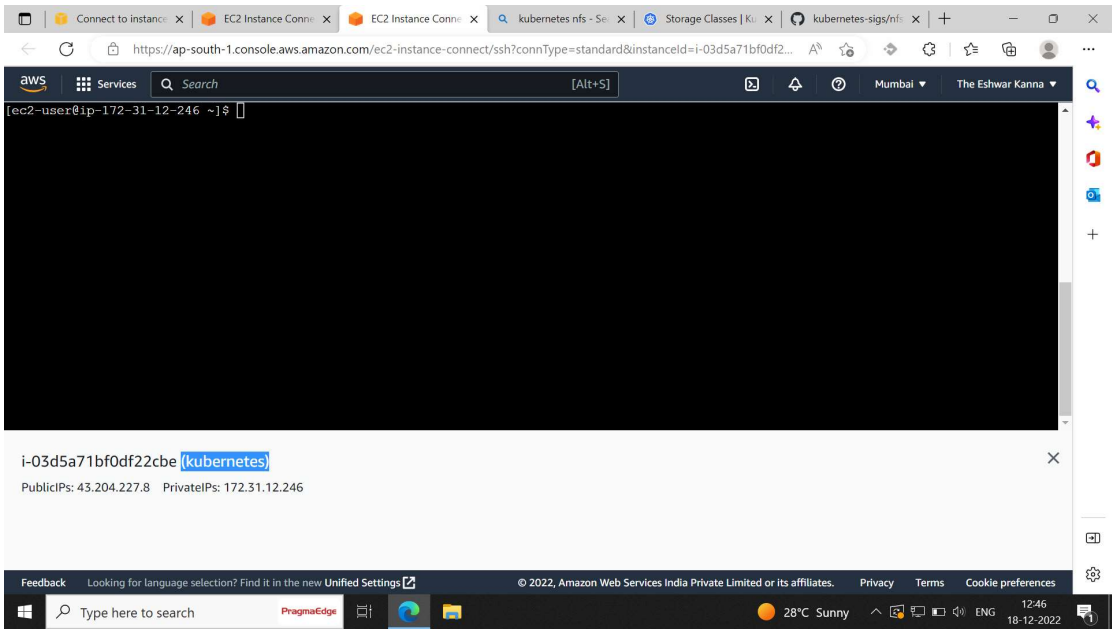
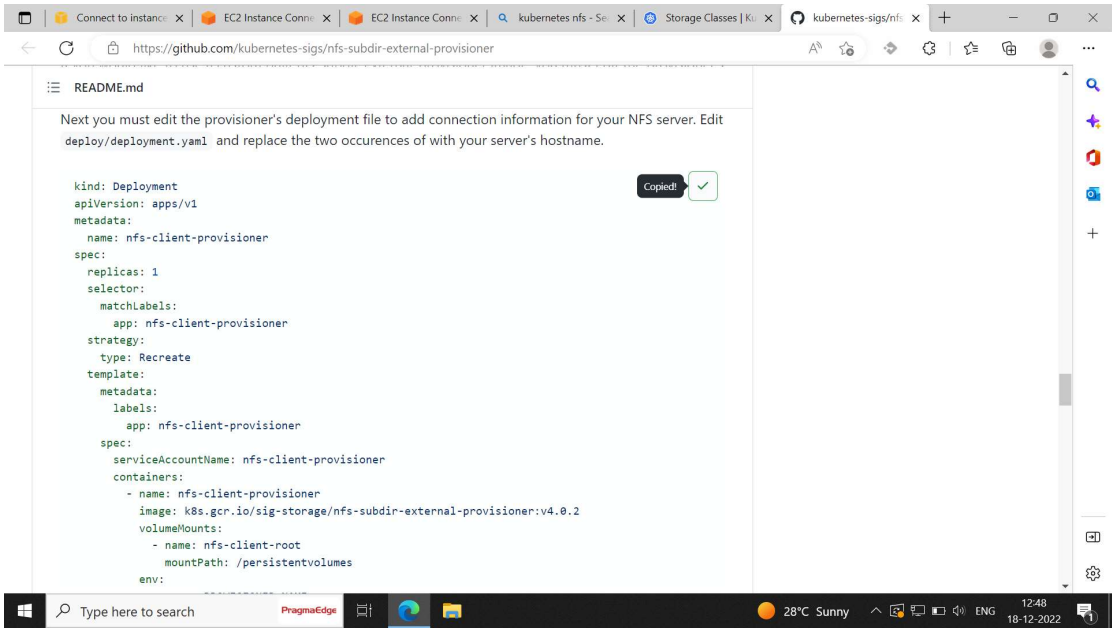
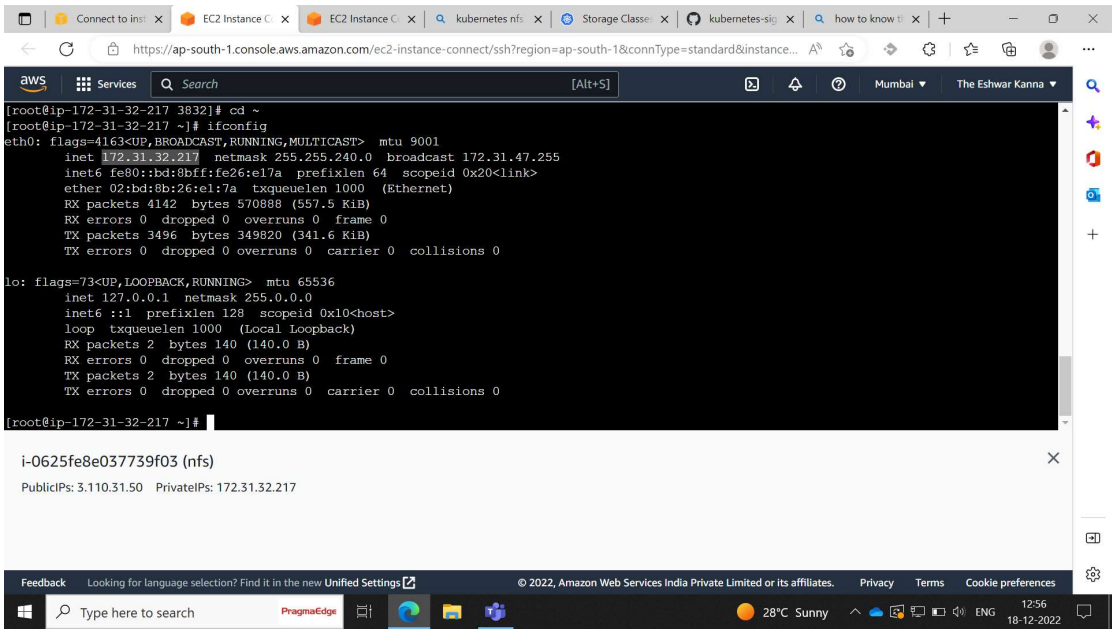
PragmaEdge
28°C Sunny
ENG
12:43
18-12-2022


[root@ip-172-31-32-217 ~]# setenforce 0
setenforce: SELinux is disabled
[root@ip-172-31-32-217 ~]#
i-0625fe8e037739f03 (nfs)
PublicIPs: 3.110.31.50 PrivateIPs: 172.31.32.217


[ec2-user@ip-172-31-12-246 ~]$
i-03d5a71bf0df22cbe (kubernetes)
PublicIPs: 43.204.227.8 PrivateIPs: 172.31.12.246


https://github.com/kubernetes-sigs/nfs-subdir-external-provisioner
README.md
Next you must edit the provisioner's deployment file to add connection information for your NFS server. Edit deployment/deployment.yaml and replace the two occurences of with your server's hostname.
Copied!
kind: Deployment
apiVersion: apps/v1
metadata:
name: nfs-client-provisioner
spec:
replicas: 1
selector:
matchLabels:
app: nfs-client-provisioner
strategy:
type: Recreate
template:
metadata:
labels:
app: nfs-client-provisioner
spec:
serviceAccountName: nfs-client-provisioner
containers:
- name: nfs-client-provisioner
image: k8s.gcr.io/sig-storage/nfs-subdir-external-provisioner:v4.0.2
volumeMounts:
- name: nfs-client-root
mountPath: /persistentvolumes
env:
Type here to search
28°C Sunny
ENG
12:48
18-12-2022


https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instance...
Services
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Mumbai
The Eshwar Kanna
[root@ip-172-31-32-217 3832]# cd ~
[root@ip-172-31-32-217 ~]# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 9001
inet 172.31.32.217 netmask 255.255.240.0 broadcast 172.31.47.255
inet6 fe80::bd:8bff:fe26:e17a prefixlen 64 scopeid 0x20<link>
ether 02:bd:8b:26:e1:7a txqueuelen 1000 (Ethernet)
RX packets 4142 bytes 570888 (557.5 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 3496 bytes 349820 (341.6 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6 ::1 prefixlen 128 scopeid 0x10<host>
loop txqueuelen 1000 (Local Loopback)
RX packets 2 bytes 140 (140.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 2 bytes 140 (140.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
[root@ip-172-31-32-217 ~]#
i-0625fe8e037739f03 (nfs)
PublicIPs: 3.110.31.50 PrivateIPs: 172.31.32.217
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ENG
12:56
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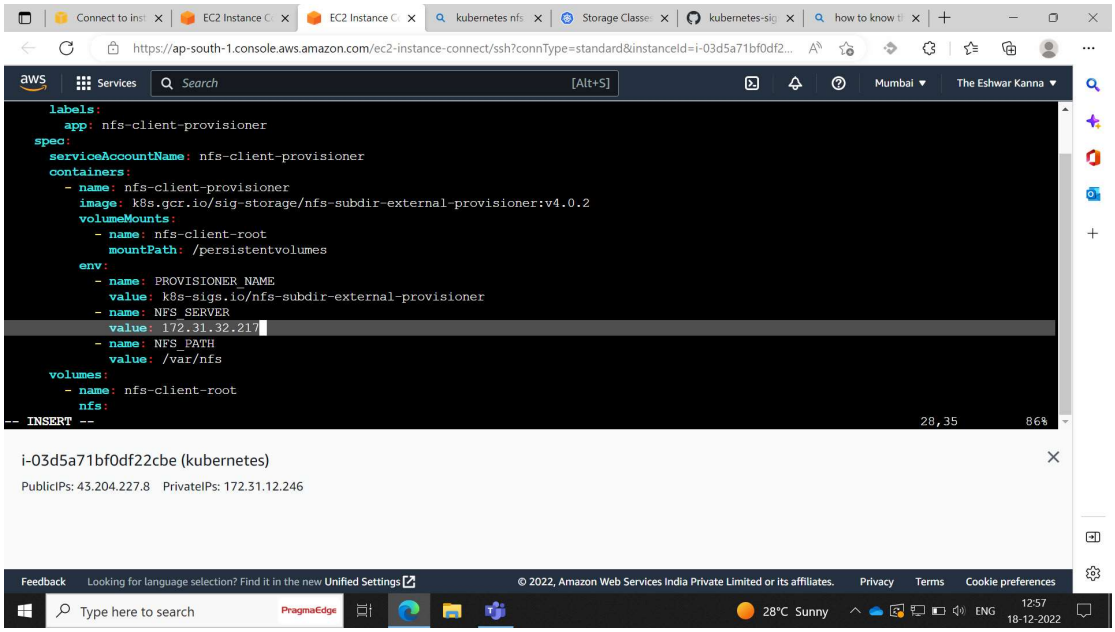
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-03d5a71bf0df2...
Services
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Mumbai
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labels:
app: nfs-client-provisioner
spec:
serviceAccountName: nfs-client-provisioner
containers:
- name: nfs-client-provisioner
image: k8s.gcr.io/sig-storage/nfs-subdir-external-provisioner:v4.0.2
volumeMounts:
- name: nfs-client-root
mountPath: /persistentvolumes
env:
- name: PROVISIONER_NAME
value: k8s-sigs.io/nfs-subdir-external-provisioner
- name: NFS_SERVER
value: 172.31.32.217
- name: NFS_PATH
value: /var/nfs
volumes:
- name: nfs-client-root
nfs:
-- INSERT --
28,35
86%
i-03d5a71bf0df22cbe (kubernetes)
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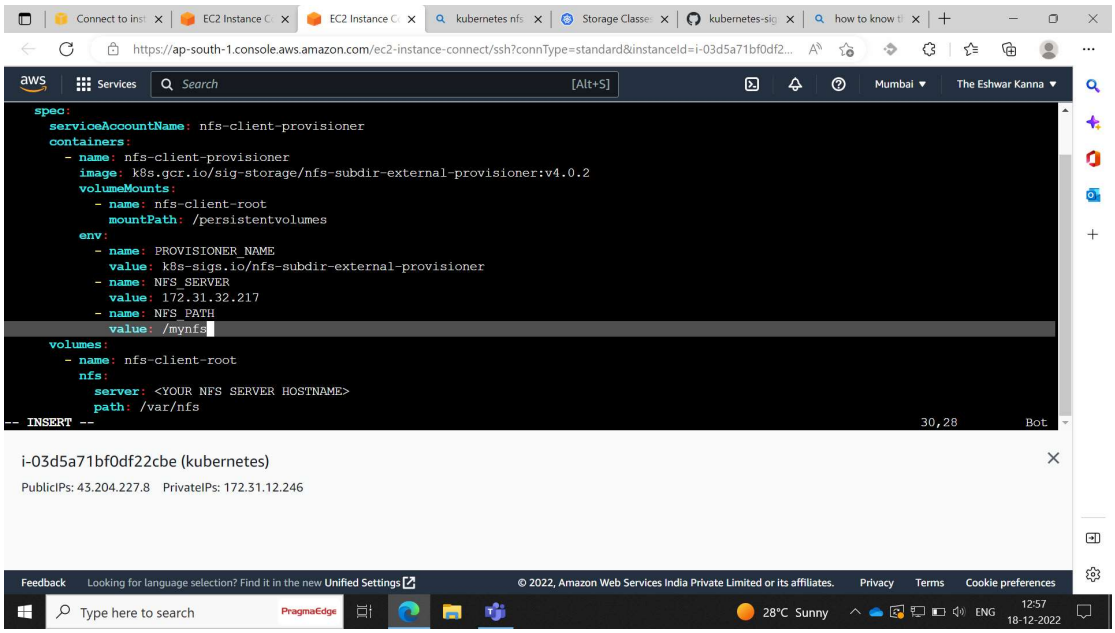
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-03d5a71bf0df2...
Services
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spec:
serviceAccountName: nfs-client-provisioner
containers:
- name: nfs-client-provisioner
image: k8s.gcr.io/sig-storage/nfs-subdir-external-provisioner:v4.0.2
volumeMounts:
- name: nfs-client-root
mountPath: /persistentvolumes
env:
- name: PROVISIONER_NAME
value: k8s-sigs.io/nfs-subdir-external-provisioner
- name: NFS_SERVER
value: 172.31.32.217
- name: NFS_PATH
value: /mynfs
volumes:
- name: nfs-client-root
nfs:
server: <YOUR NFS SERVER HOSTNAME>
path: /var/nfs
-- INSERT --
30,28
Bot
i-03d5a71bf0df22cbe (kubernetes)
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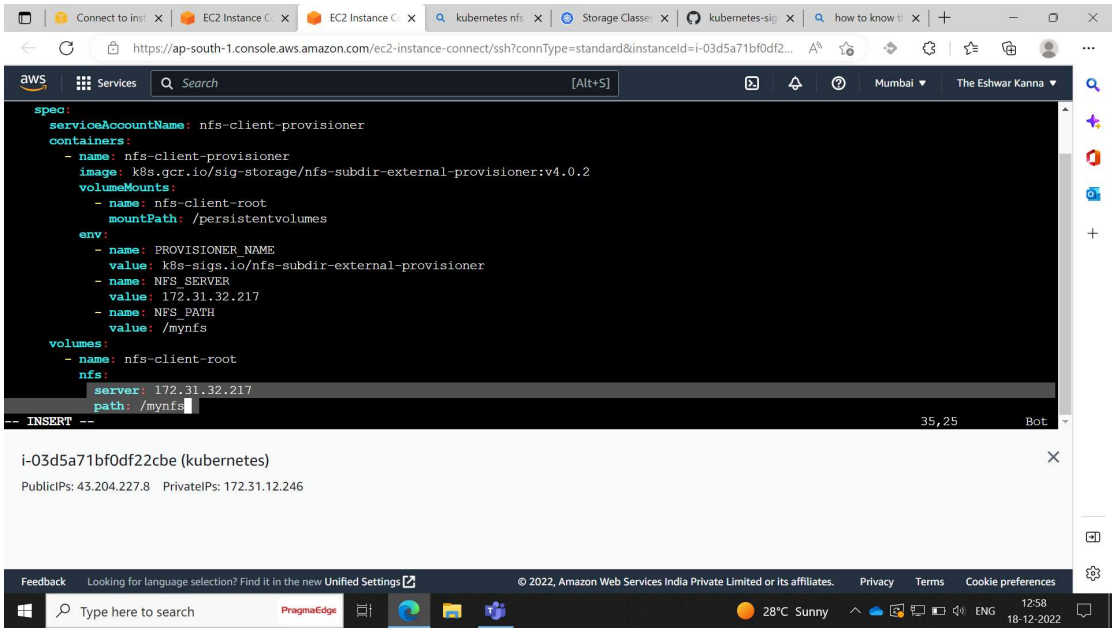
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-03d5a71bf0df2...
Services
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spec:
serviceAccountName: nfs-client-provisioner
containers:
- name: nfs-client-provisioner
image: k8s.gcr.io/sig-storage/nfs-subdir-external-provisioner:v4.0.2
volumeMounts:
- name: nfs-client-root
mountPath: /persistentvolumes
env:
- name: PROVISIONER_NAME
value: k8s-sigs.io/nfs-subdir-external-provisioner
- name: NFS_SERVER
value: 172.31.32.217
- name: NFS_PATH
value: /mynfs
volumes:
- name: nfs-client-root
nfs:
server: 172.31.32.217
path: /mynfs
-- INSERT --
35,25
Bot
i-03d5a71bf0df22cbe (kubernetes)
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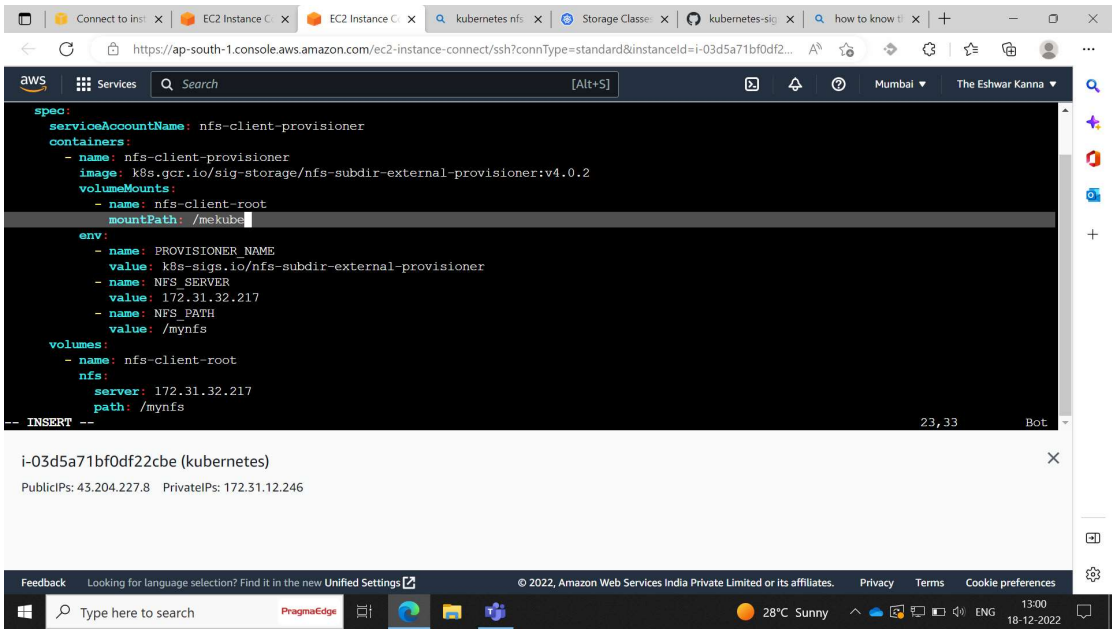
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-03d5a71bf0df2...
Services
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spec:
serviceAccountName: nfs-client-provisioner
containers:
- name: nfs-client-provisioner
image: k8s.gcr.io/sig-storage/nfs-subdir-external-provisioner:v4.0.2
volumeMounts:
- name: nfs-client-root
mountPath: /mekube
env:
- name: PROVISIONER_NAME
value: k8s-sigs.io/nfs-subdir-external-provisioner
- name: NFS_SERVER
value: 172.31.32.217
- name: NFS_PATH
value: /mynfs
volumes:
- name: nfs-client-root
nfs:
server: 172.31.32.217
path: /mynfs
-- INSERT --
23,33
Bot
i-03d5a71bf0df22cbe (kubernetes)
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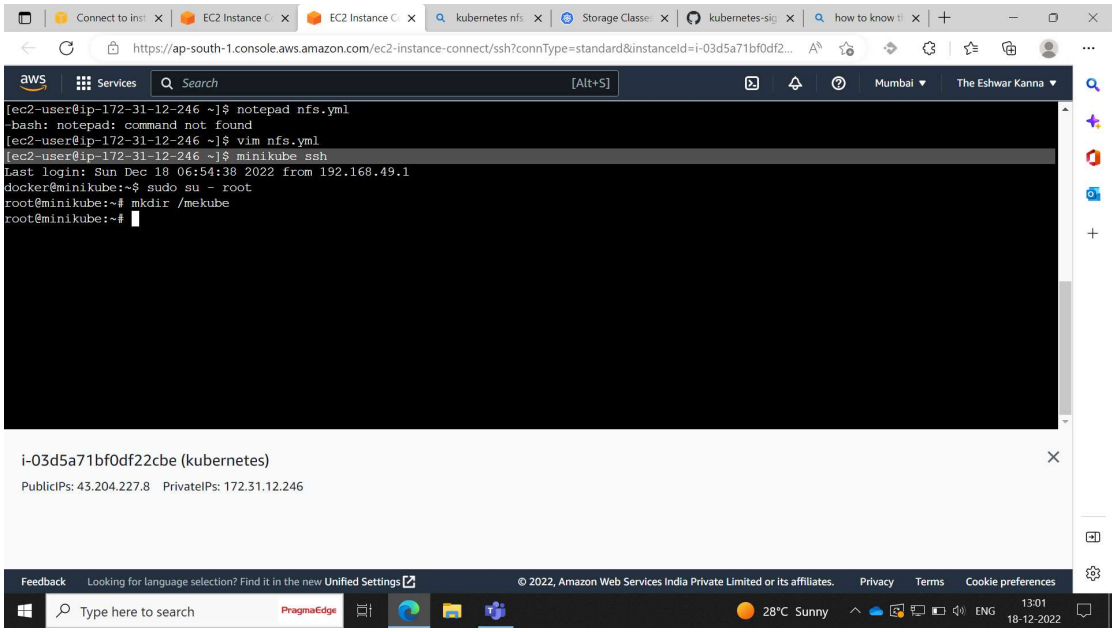
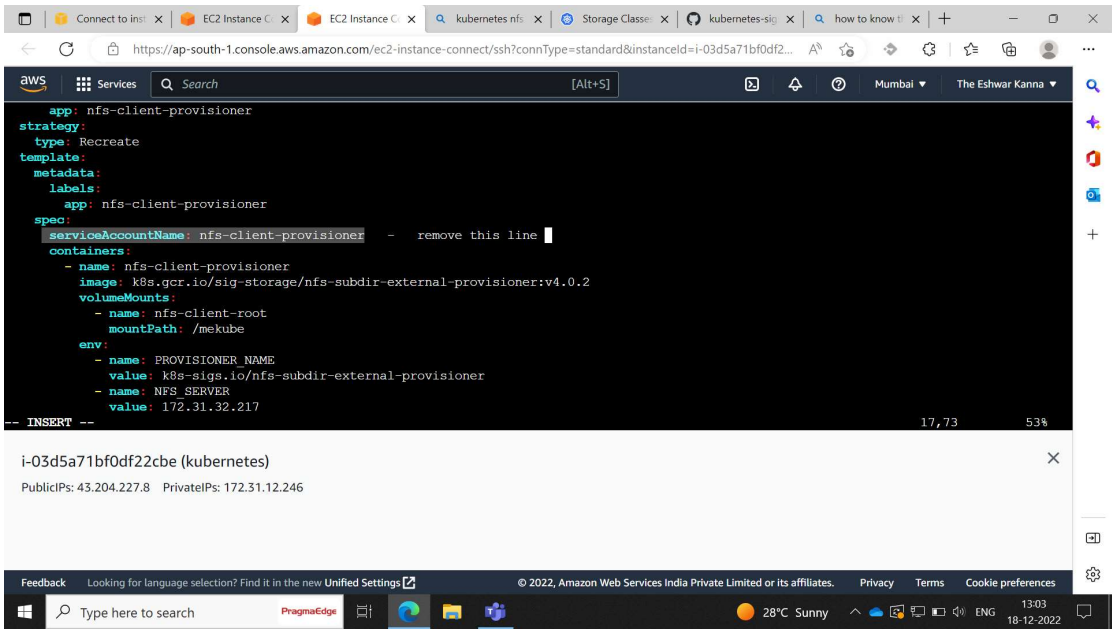
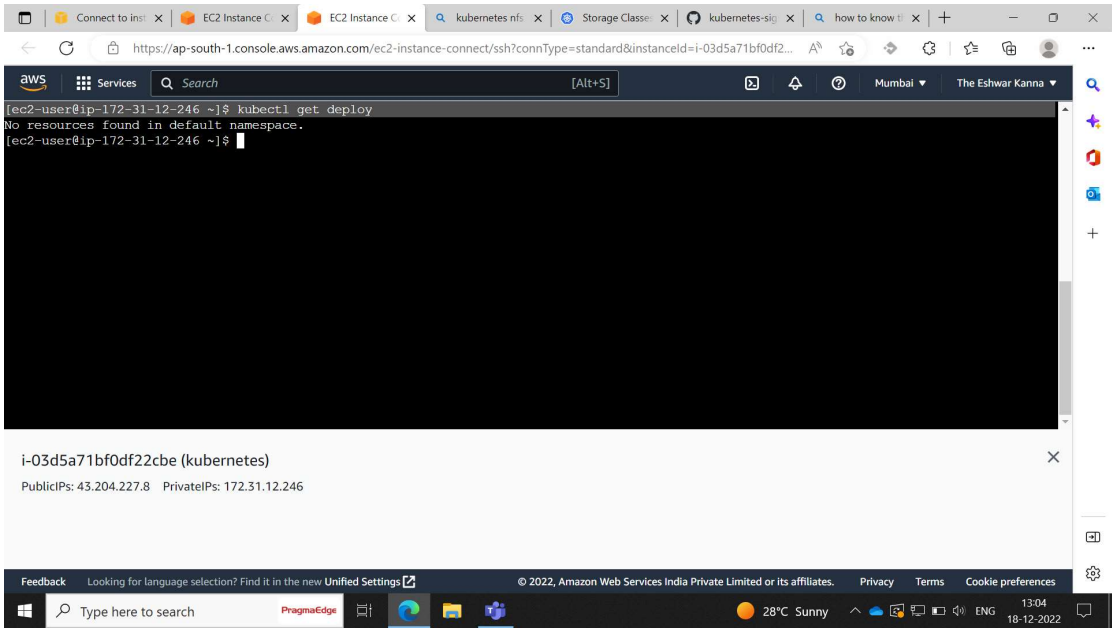
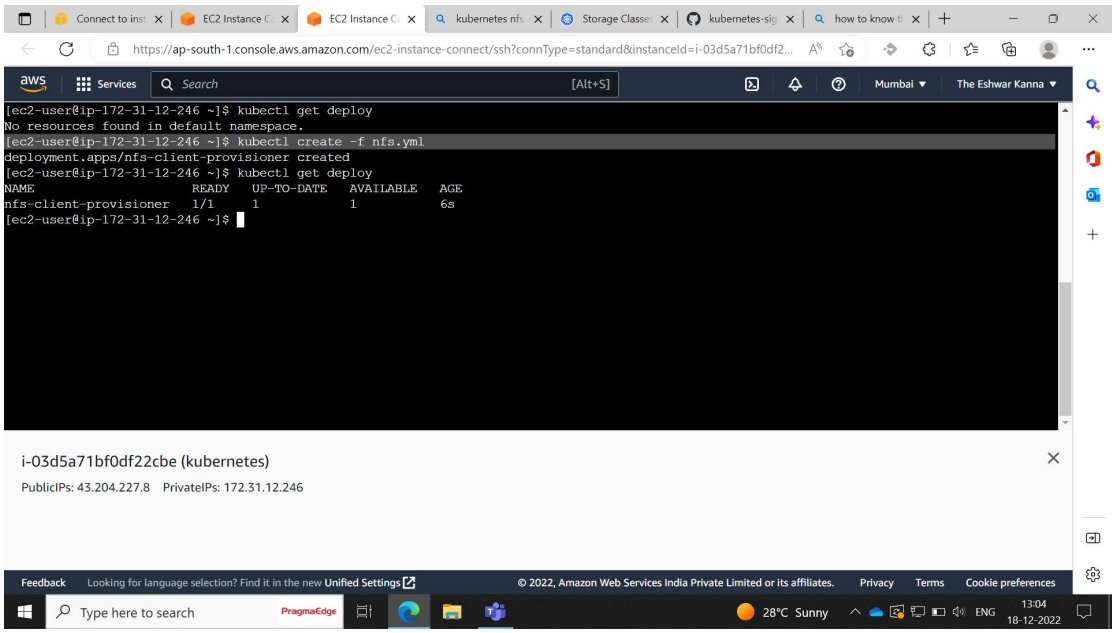
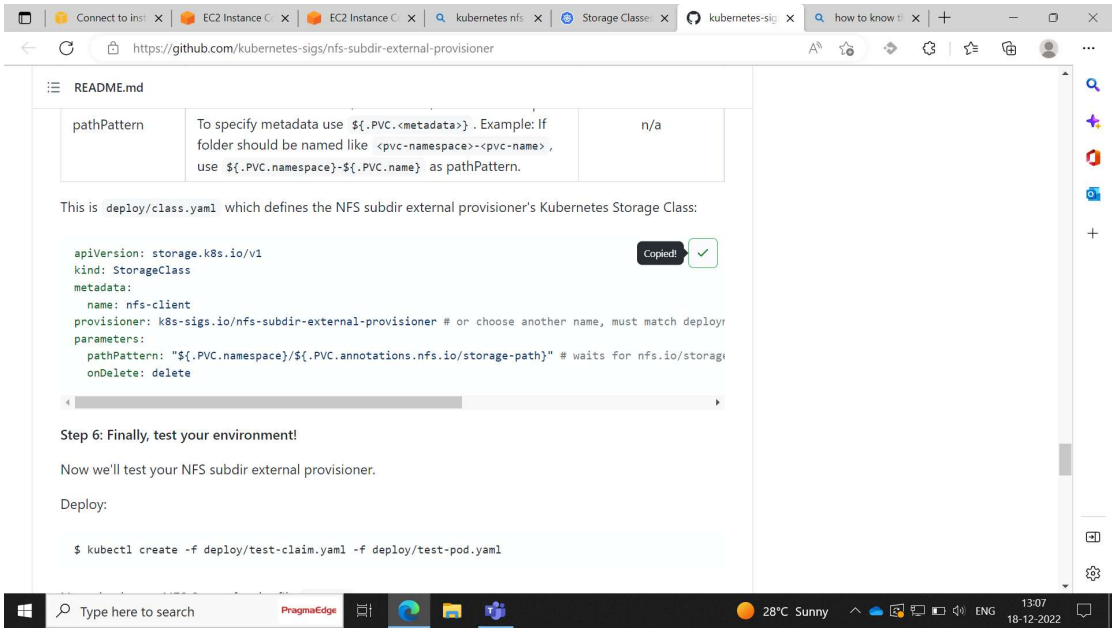

[ec2-user@ip-172-31-12-246 ~]$ notepad nfs.yml
-bash: notepad: command not found
[ec2-user@ip-172-31-12-246 ~]$ vim nfs.yml
[ec2-user@ip-172-31-12-246 ~]$ minikube ssh
Last login: Sun Dec 18 06:54:38 2022 from 192.168.49.1
docker@minikube:~$ sudo su - root
root@minikube:~# mkdir /mekube
root@minikube:~#
i-03d5a71bf0df22cbe (kubernetes)
PublicIPs: 43.204.227.8 PrivateIPs: 172.31.12.246


app: nfs-client-provisioner
strategy:
type: Recreate
template:
metadata:
labels:
app: nfs-client-provisioner
spec:
serviceAccountName: nfs-client-provisioner - remove this line
containers:
- name: nfs-client-provisioner
image: k8s.gcr.io/sig-storage/nfs-subdir-external-provisioner:v4.0.2
volumeMounts:
- name: nfs-client-root
mountPath: /mekube
env:
- name: PROVISIONER_NAME
value: k8s-sigs.io/nfs-subdir-external-provisioner
- name: NFS_SERVER
value: 172.31.32.217
-- INSERT -- 17,73 53%
i-03d5a71bf0df22cbe (kubernetes)
PublicIPs: 43.204.227.8 PrivateIPs: 172.31.12.246


[ec2-user@ip-172-31-12-246 ~]$ kubectl get deploy
No resources found in default namespace.
[ec2-user@ip-172-31-12-246 ~]$
i-03d5a71bf0df22cbe (kubernetes)
PublicIPs: 43.204.227.8 PrivateIPs: 172.31.12.246


[ec2-user@ip-172-31-12-246 ~]$ kubectl get deploy
No resources found in default namespace.
[ec2-user@ip-172-31-12-246 ~]$ kubectl create -f nfs.yml
deployment.apps/nfs-client-provisioner created
[ec2-user@ip-172-31-12-246 ~]$ kubectl get deploy
NAME READY UP-TO-DATE AVAILABLE AGE
nfs-client-provisioner 1/1 1 1 6s
[ec2-user@ip-172-31-12-246 ~]$
i-03d5a71bf0df22cbe (kubernetes)
PublicIPs: 43.204.227.8 PrivateIPs: 172.31.12.246


https://github.com/kubernetes-sigs/nfs-subdir-external-provisioner
README.md
pathPattern
To specify metadata use ${.PVC.<metadata>} . Example: If folder should be named like <pvc-namespace>-<pvc-name> , use ${.PVC.namespace}-${.PVC.name} as pathPattern.
n/a
This is deploy/class.yaml which defines the NFS subdir external provisioner's Kubernetes Storage Class:
Copied!
apiVersion: storage.k8s.io/v1
kind: StorageClass
metadata:
name: nfs-client
provisioner: k8s-sigs.io/nfs-subdir-external-provisioner # or choose another name, must match deployr
parameters:
pathPattern: "${.PVC.namespace}/${.PVC.annotations.nfs.io/storage-path}" # waits for nfs.io/storage
onDelete: delete
Step 6: Finally, test your environment!
Now we'll test your NFS subdir external provisioner.
Deploy:
$ kubectl create -f deploy/test-claim.yaml -f deploy/test-pod.yaml
Type here to search
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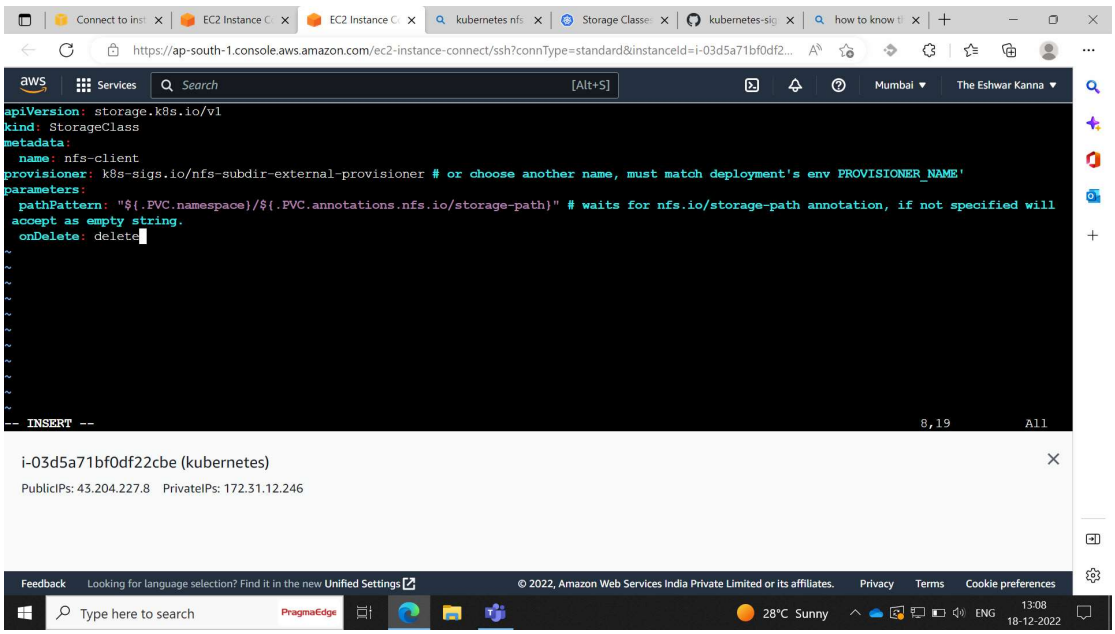
ENG
13:07
18-12-2022


https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-03d5a71bf0df2...
Services
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apiVersion: storage.k8s.io/v1
kind: StorageClass
metadata:
name: nfs-client
provisioner: k8s-sigs.io/nfs-subdir-external-provisioner # or choose another name, must match deployment's env PROVISIONER_NAME'
parameters:
pathPattern: "${.PVC.namespace}/${.PVC.annotations.nfs.io/storage-path}" # waits for nfs.io/storage-path annotation, if not specified will
accept as empty string.
onDelete: delete
-- INSERT --
8,19
All
i-03d5a71bf0df22cbe (kubernetes)
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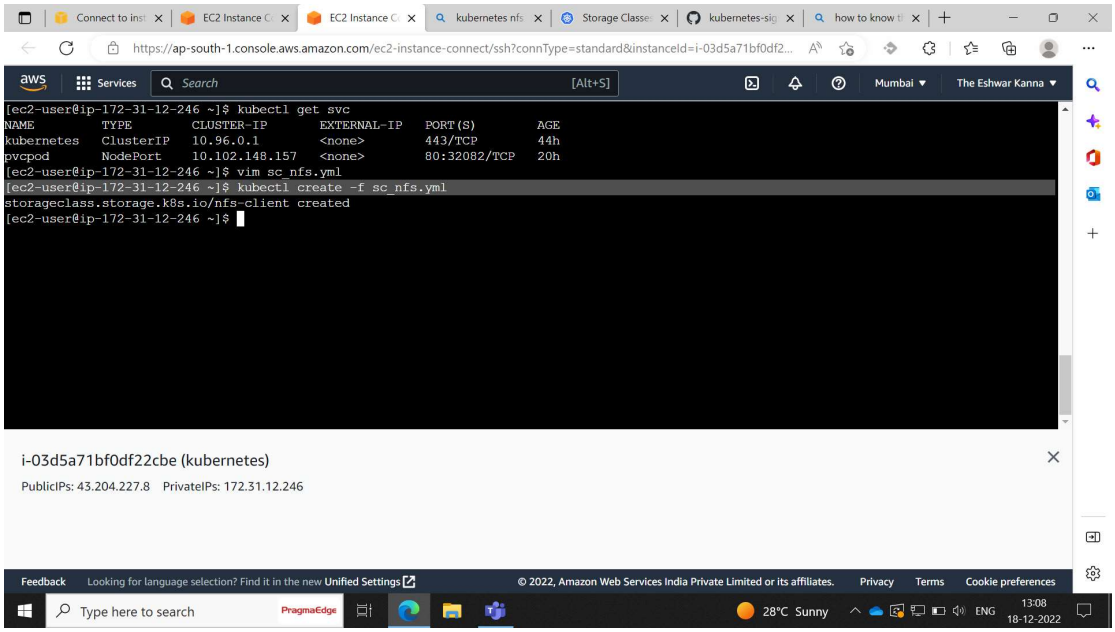
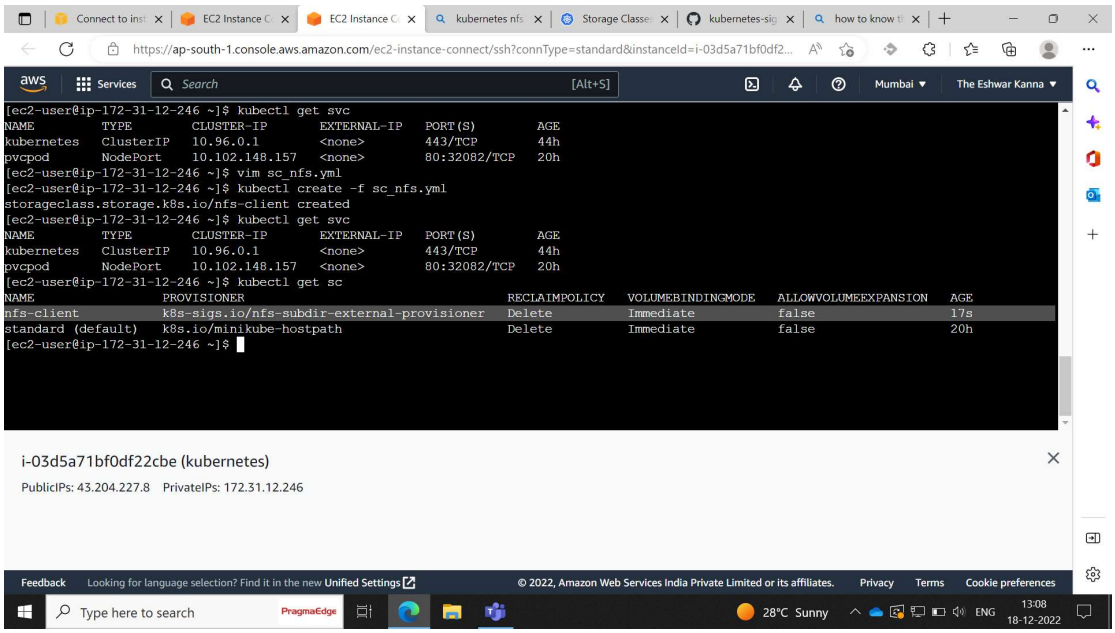
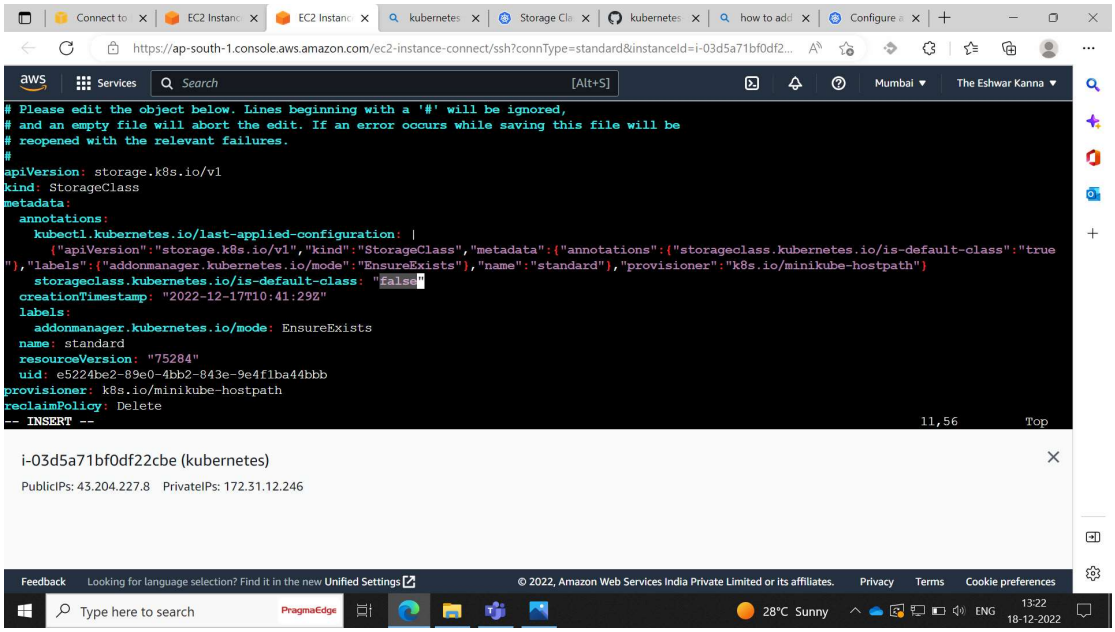

[ec2-user@ip-172-31-12-246 ~]$ kubectl get svc
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 44h
pvcpod NodePort 10.102.148.157 <none> 80:32082/TCP 20h
[ec2-user@ip-172-31-12-246 ~]$ vim sc_nfs.yml
[ec2-user@ip-172-31-12-246 ~]$ kubectl create -f sc_nfs.yml
storageclass.storage.k8s.io/nfs-client created
[ec2-user@ip-172-31-12-246 ~]$
i-03d5a71bf0df22cbe (kubernetes)
PublicIPs: 43.204.227.8 PrivateIPs: 172.31.12.246


[ec2-user@ip-172-31-12-246 ~]$ kubectl get svc
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 44h
pvcpod NodePort 10.102.148.157 <none> 80:32082/TCP 20h
[ec2-user@ip-172-31-12-246 ~]$ vim sc_nfs.yml
[ec2-user@ip-172-31-12-246 ~]$ kubectl create -f sc_nfs.yml
storageclass.storage.k8s.io/nfs-client created
[ec2-user@ip-172-31-12-246 ~]$ kubectl get svc
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 44h
pvcpod NodePort 10.102.148.157 <none> 80:32082/TCP 20h
[ec2-user@ip-172-31-12-246 ~]$ kubectl get sc
NAME PROVISIONER RECLAIMPOLICY VOLUMEBINDINGMODE ALLOWVOLUMEEXPANSION AGE
nfs-client k8s-sigs.io/nfs-subdir-external-provisioner Delete Immediate false 17s
standard (default) k8s.io/minikube-hostpath Delete Immediate false 20h
[ec2-user@ip-172-31-12-246 ~]$
i-03d5a71bf0df22cbe (kubernetes)
PublicIPs: 43.204.227.8 PrivateIPs: 172.31.12.246


Connect to
EC2 Instanc
kubernetes
Storage Cla
how to add
Configure a
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-03d5a71bf0df2...
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Please edit the object below. Lines beginning with a '#' will be ignored,
and an empty file will abort the edit. If an error occurs while saving this file will be
reopened with the relevant failures.
#
apiVersion: storage.k8s.io/v1
kind: StorageClass
metadata:
annotations:
kubectl.kubernetes.io/last-applied-configuration: |
{"apiVersion":"storage.k8s.io/v1","kind":"StorageClass","metadata":{"annotations":{"storageclass.kubernetes.io/is-default-class":"true
"},"labels":{"addonmanager.kubernetes.io/mode":"EnsureExists"},"name":"standard"},"provisioner":"k8s.io/minikube-hostpath"}
storageclass.kubernetes.io/is-default-class: "false"
creationTimestamp: "2022-12-17T10:41:29Z"
labels:
addonmanager.kubernetes.io/mode: EnsureExists
name: standard
resourceVersion: "75284"
uid: e5224be2-89e0-4bb2-843e-9e4f1ba44bbb
provisioner: k8s.io/minikube-hostpath
reclaimPolicy: Delete
-- INSERT --
11,56
Top
i-03d5a71bf0df22cbe (kubernetes)
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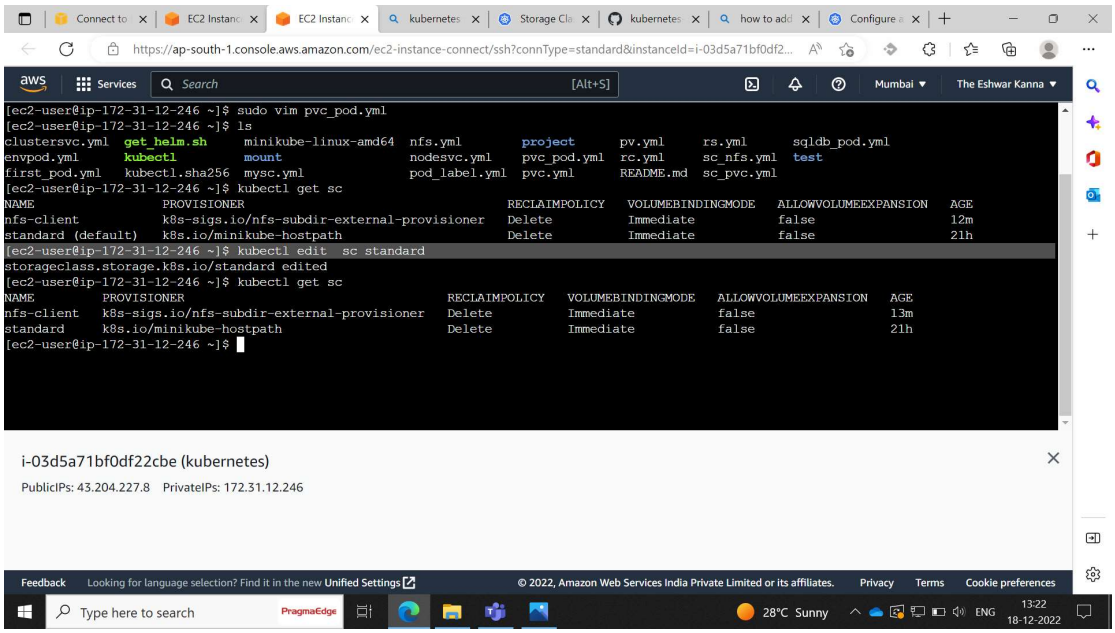
Connect to
EC2 Instanc
kubernetes
Storage Cla
how to add
Configure a
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-03d5a71bf0df2...
Services
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[ec2-user@ip-172-31-12-246 ~]$ sudo vim pvc_pod.yml
[ec2-user@ip-172-31-12-246 ~]$ ls
clustersvc.yml get_helm.sh minikube-linux-amd64 nfs.yml project pv.yml rs.yml sqldb_pod.yml
envpod.yml kubectl mount nodesvc.yml pvc_pod.yml rc.yml sc_nfs.yml test
first_pod.yml kubectl.sha256 mysc.yml pod_label.yml pvc.yml README.md sc_pvc.yml
[ec2-user@ip-172-31-12-246 ~]$ kubectl get sc
NAME PROVISIONER RECLAIMPOLICY VOLUMEBINDINGMODE ALLOWVOLUMEEXPANSION AGE
nfs-client k8s-sigs.io/nfs-subdir-external-provisioner Delete Immediate false 12m
standard (default) k8s.io/minikube-hostpath Delete Immediate false 21h
[ec2-user@ip-172-31-12-246 ~]$ kubectl edit sc standard
storageclass.storage.k8s.io/standard edited
[ec2-user@ip-172-31-12-246 ~]$ kubectl get sc
NAME PROVISIONER RECLAIMPOLICY VOLUMEBINDINGMODE ALLOWVOLUMEEXPANSION AGE
nfs-client k8s-sigs.io/nfs-subdir-external-provisioner Delete Immediate false 13m
standard k8s.io/minikube-hostpath Delete Immediate false 21h
[ec2-user@ip-172-31-12-246 ~]$
i-03d5a71bf0df22cbe (kubernetes)
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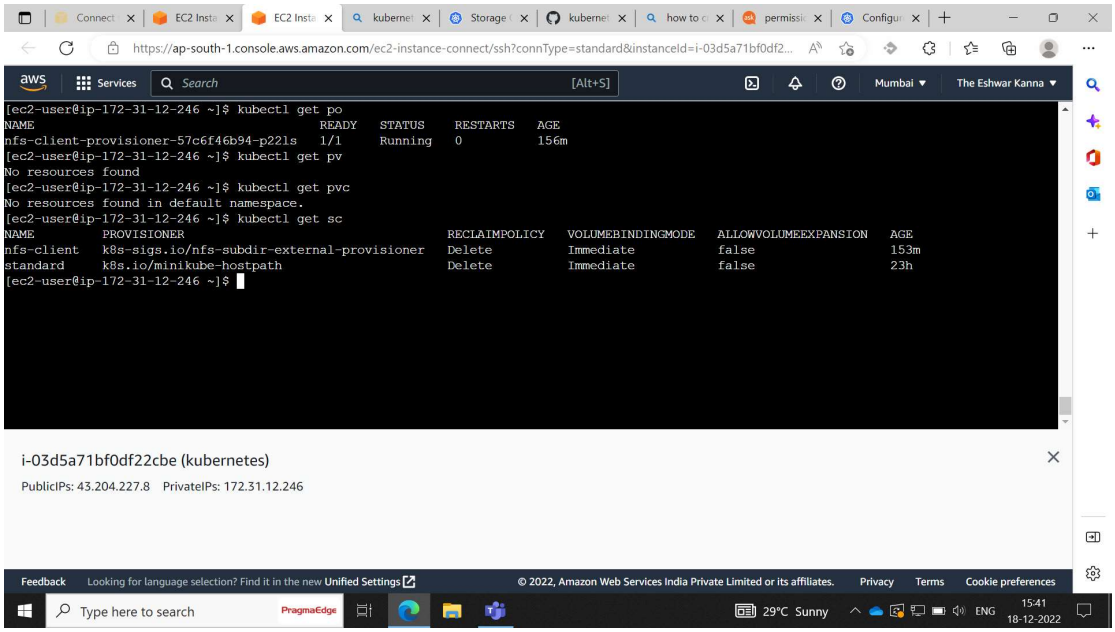
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-03d5a71bf0df2...
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[ec2-user@ip-172-31-12-246 ~]$ kubectl get po
NAME READY STATUS RESTARTS AGE
nfs-client-provisioner-57c6f46b94-p22ls 1/1 Running 0 156m
[ec2-user@ip-172-31-12-246 ~]$ kubectl get pv
No resources found
[ec2-user@ip-172-31-12-246 ~]$ kubectl get pvc
No resources found in default namespace.
[ec2-user@ip-172-31-12-246 ~]$ kubectl get sc
NAME PROVISIONER RECLAIMPOLICY VOLUMEBINDINGMODE ALLOWVOLUMEEXPANSION AGE
nfs-client k8s-sigs.io/nfs-subdir-external-provisioner Delete Immediate false 153m
standard k8s.io/minikube-hostpath Delete Immediate false 23h
[ec2-user@ip-172-31-12-246 ~]$
i-03d5a71bf0df22cbe (kubernetes)
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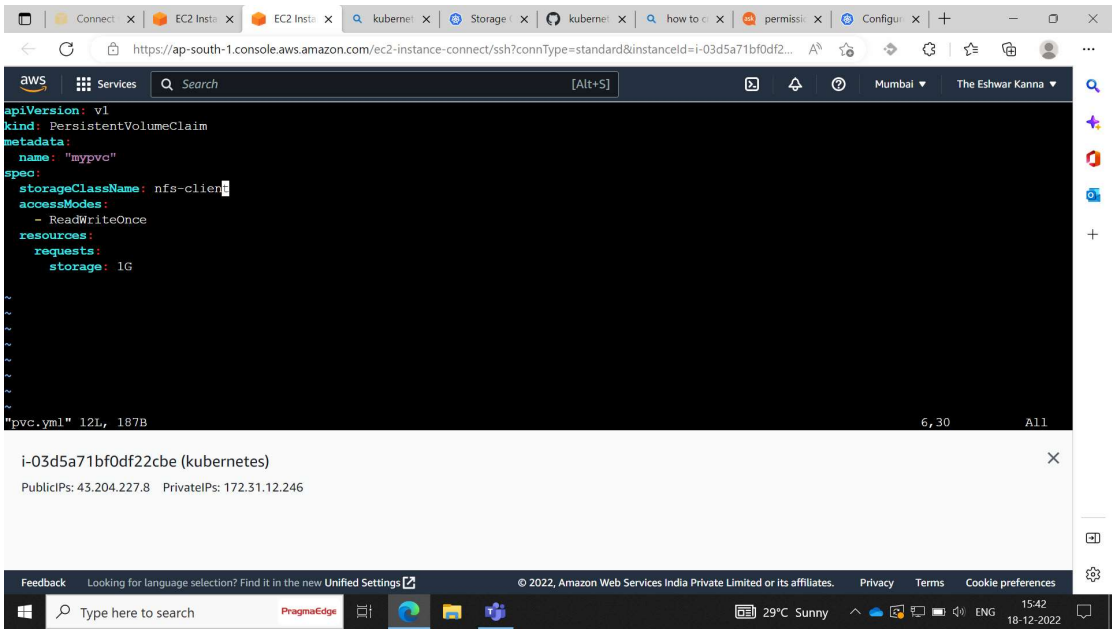
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-03d5a71bf0df2...
Services
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apiVersion: v1
kind: PersistentVolumeClaim
metadata:
name: "mypvc"
spec:
storageClassName: nfs-clien
accessModes:
- ReadWriteOnce
resources:
requests:
storage: 1G
"pvc.yml" 12L, 187B
6,30
All
i-03d5a71bf0df22cbe (kubernetes)
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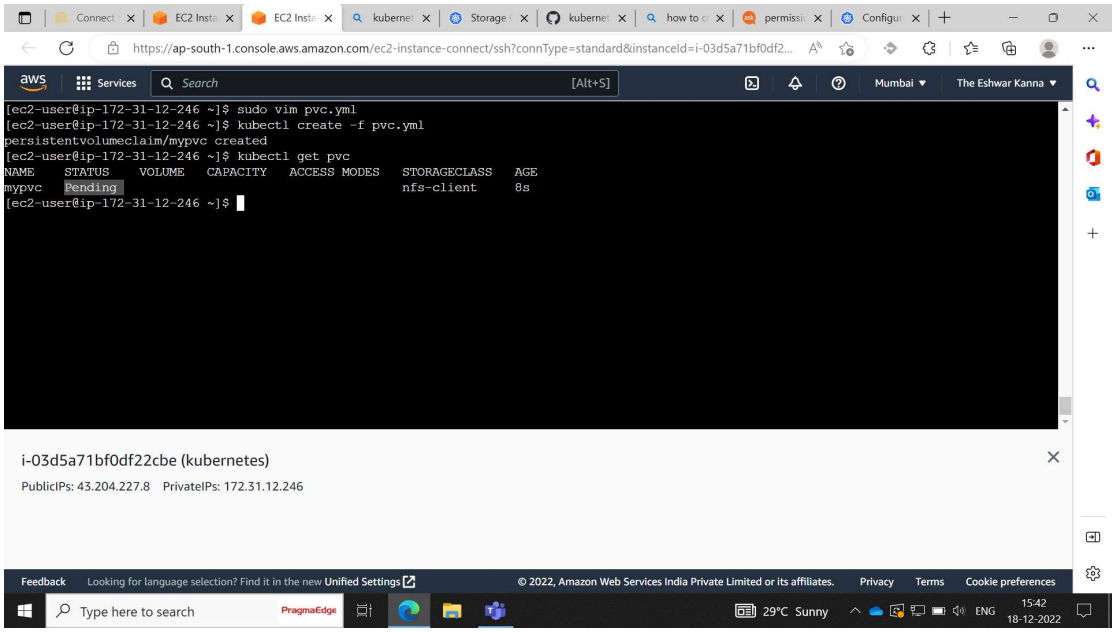
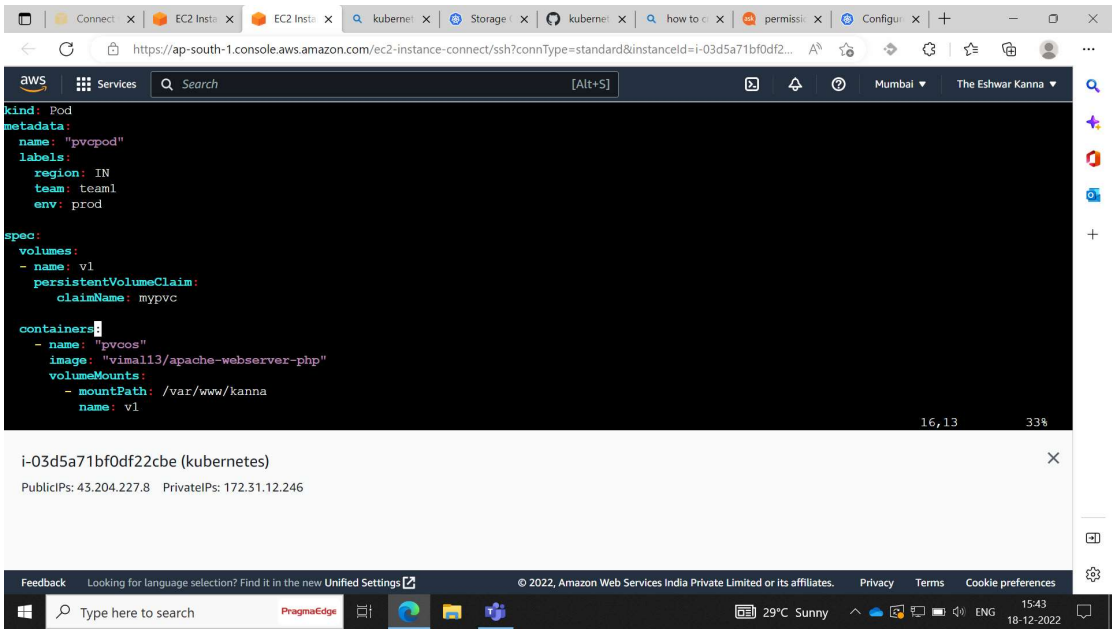
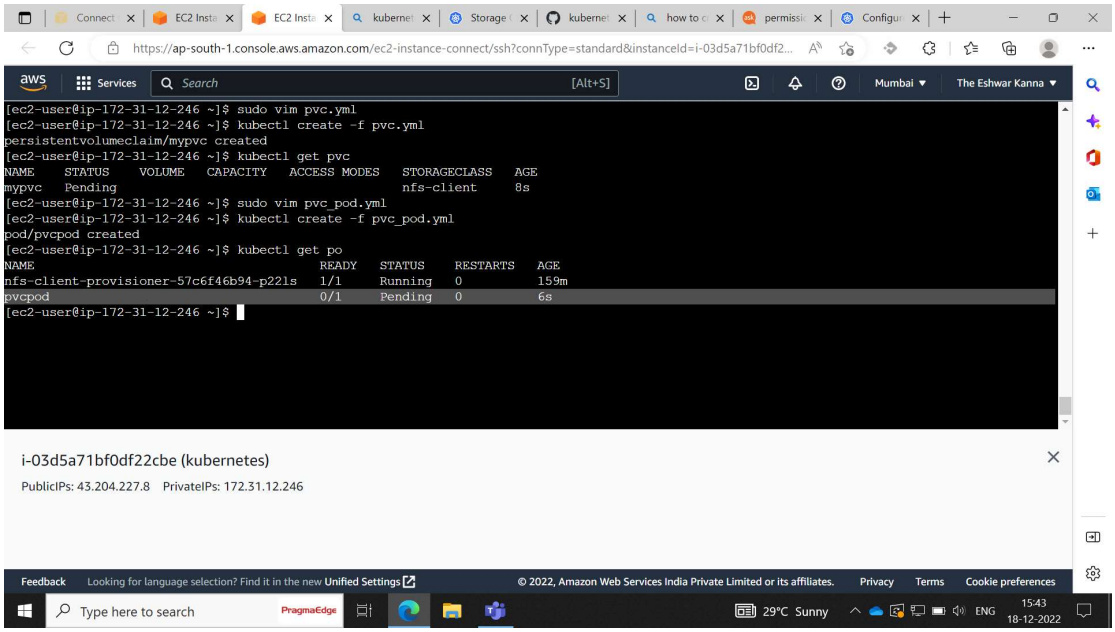
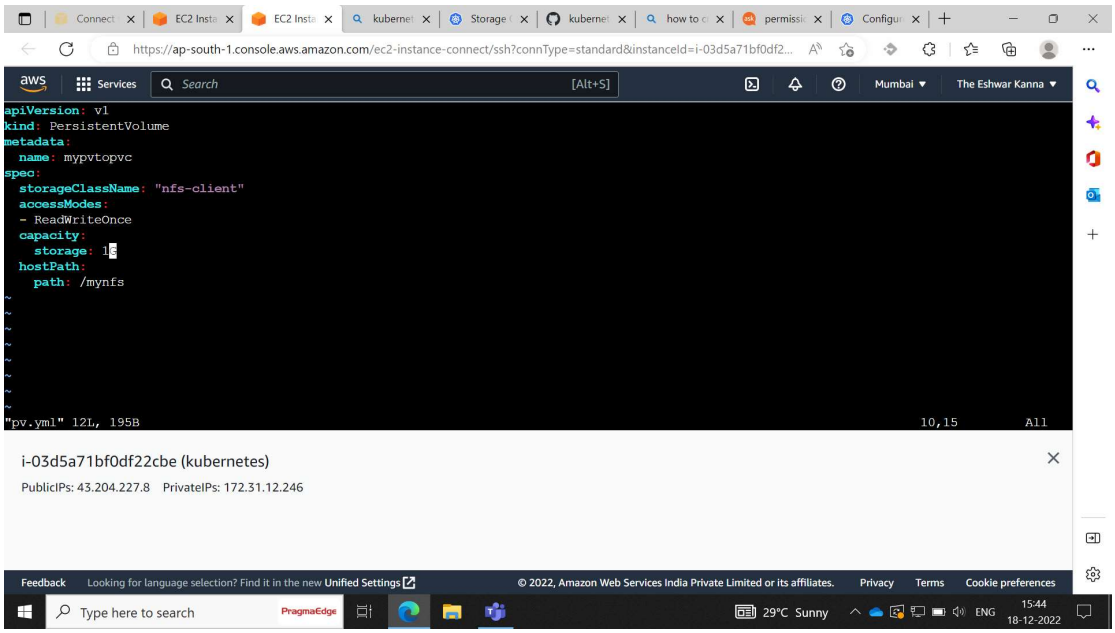
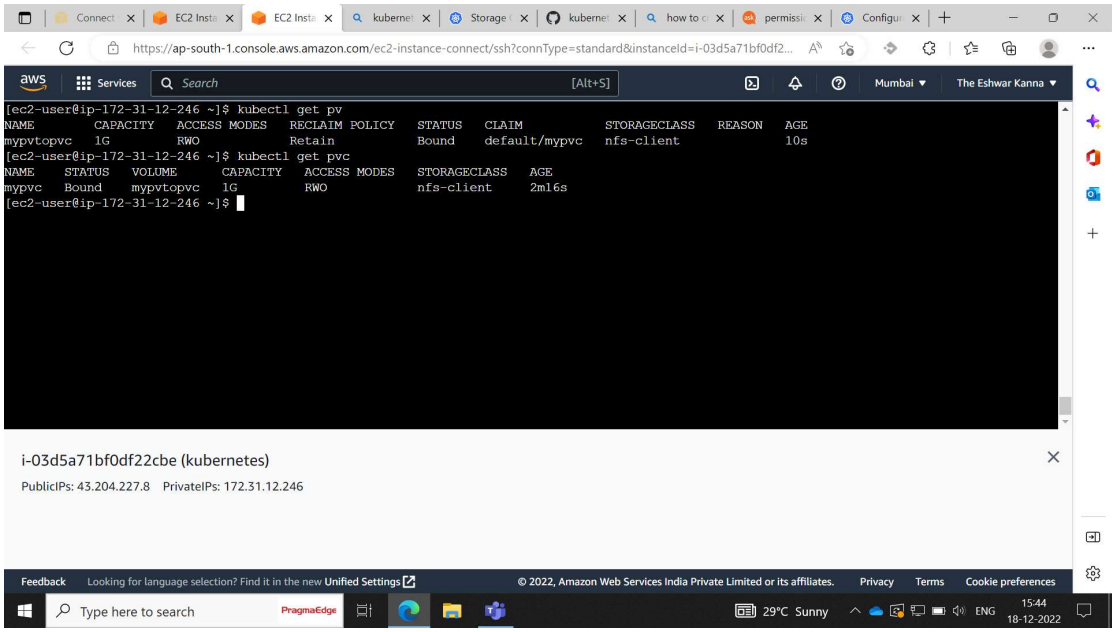

[ec2-user@ip-172-31-12-246 ~]$ sudo vim pvc.yml
[ec2-user@ip-172-31-12-246 ~]$ kubectl create -f pvc.yml
persistentvolumeclaim/mypvc created
[ec2-user@ip-172-31-12-246 ~]$ kubectl get pvc
NAME STATUS VOLUME CAPACITY ACCESS MODES STORAGECLASS AGE
mypvc Pending nfs-client 8s
[ec2-user@ip-172-31-12-246 ~]$
i-03d5a71bf0df22cbe (kubernetes)
PublicIPs: 43.204.227.8 PrivateIPs: 172.31.12.246


kind: Pod
metadata:
name: "pvcpod"
labels:
region: IN
team: team1
env: prod
spec:
volumes:
- name: v1
persistentVolumeClaim:
claimName: mypvc
containers:
- name: "pvcos"
image: "vimal13/apache-webserver-php"
volumeMounts:
- mountPath: /var/www/kanna
name: v1
16,13 33%
i-03d5a71bf0df22cbe (kubernetes)
PublicIPs: 43.204.227.8 PrivateIPs: 172.31.12.246


[ec2-user@ip-172-31-12-246 ~]$ sudo vim pvc.yml
[ec2-user@ip-172-31-12-246 ~]$ kubectl create -f pvc.yml
persistentvolumeclaim/mypvc created
[ec2-user@ip-172-31-12-246 ~]$ kubectl get pvc
NAME STATUS VOLUME CAPACITY ACCESS MODES STORAGECLASS AGE
mypvc Pending nfs-client 8s
[ec2-user@ip-172-31-12-246 ~]$ sudo vim pvc_pod.yml
[ec2-user@ip-172-31-12-246 ~]$ kubectl create -f pvc_pod.yml
pod/pvcpod created
[ec2-user@ip-172-31-12-246 ~]$ kubectl get po
NAME READY STATUS RESTARTS AGE
nfs-client-provisioner-57c6f46b94-p221s 1/1 Running 0 159m
pvcpod 0/1 Pending 0 6s
[ec2-user@ip-172-31-12-246 ~]$
i-03d5a71bf0df22cbe (kubernetes)
PublicIPs: 43.204.227.8 PrivateIPs: 172.31.12.246


apiVersion: v1
kind: PersistentVolume
metadata:
name: mypvtopvc
spec:
storageClassName: "nfs-client"
accessModes:
- ReadWriteOnce
capacity:
storage: 1G
hostPath:
path: /mynfs
"pv.yml" 12L, 195B 10,15 All
i-03d5a71bf0df22cbe (kubernetes)
PublicIPs: 43.204.227.8 PrivateIPs: 172.31.12.246


[ec2-user@ip-172-31-12-246 ~]$ kubectl get pv
NAME CAPACITY ACCESS MODES RECLAIM POLICY STATUS CLAIM STORAGECLASS REASON AGE
mypvtopvc 1G RWO Retain Bound default/mypvc nfs-client 10s
[ec2-user@ip-172-31-12-246 ~]$ kubectl get pvc
NAME STATUS VOLUME CAPACITY ACCESS MODES STORAGECLASS AGE
mypvc Bound mypvtopvc 1G RWO nfs-client 2m16s
[ec2-user@ip-172-31-12-246 ~]$
i-03d5a71bf0df22cbe (kubernetes)
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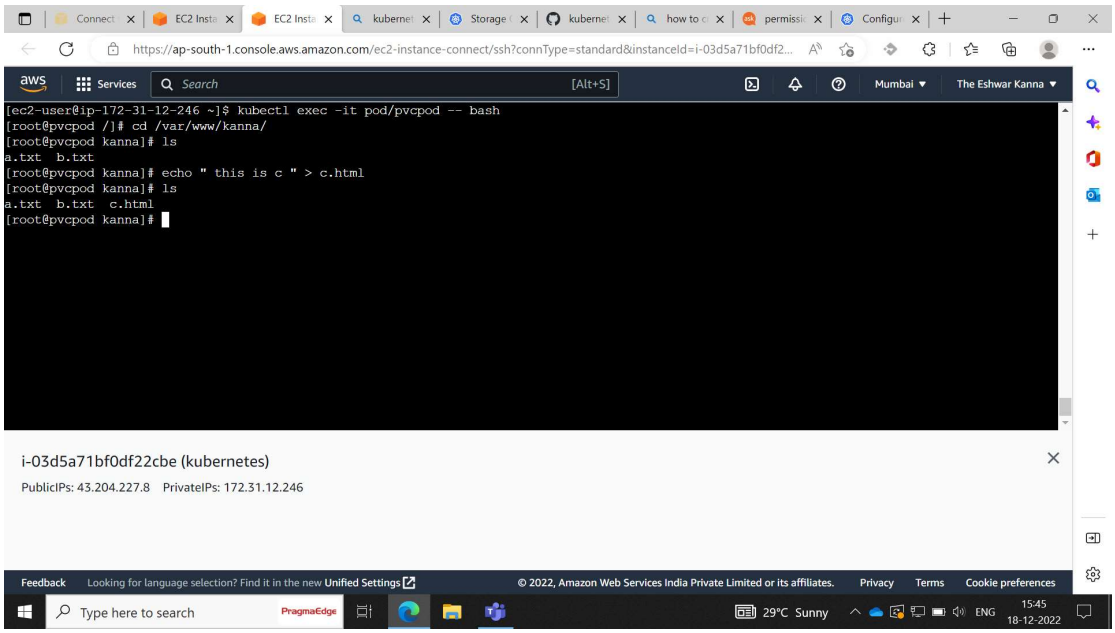
[ec2-user@ip-172-31-12-246 ~]$ kubectl exec -it pod/pvcpod -- bash
[root@pvcpod /]# cd /var/www/kanna/
[root@pvcpod kanna]# ls
a.txt b.txt
[root@pvcpod kanna]# echo " this is c " > c.html
[root@pvcpod kanna]# ls
a.txt b.txt c.html
[root@pvcpod kanna]#
i-03d5a71bf0df22cbe (kubernetes)
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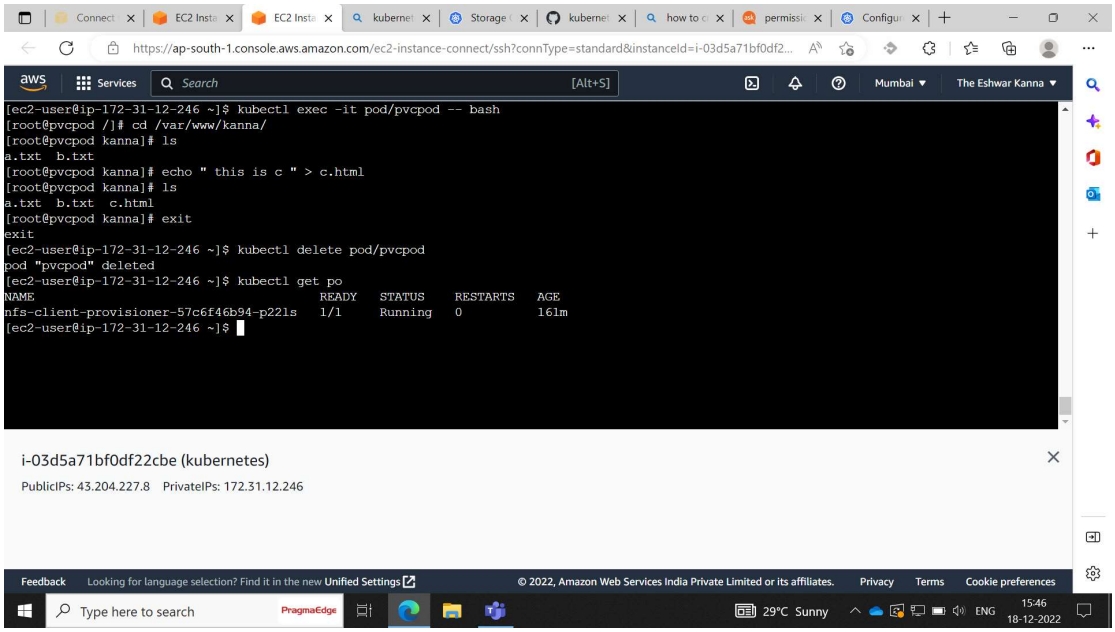
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-03d5a71bf0df2...
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[ec2-user@ip-172-31-12-246 ~]$ kubectl exec -it pod/pvcpod -- bash
[root@pvcpod /]# cd /var/www/kanna/
[root@pvcpod kanna]# ls
a.txt b.txt
[root@pvcpod kanna]# echo " this is c " > c.html
[root@pvcpod kanna]# ls
a.txt b.txt c.html
[root@pvcpod kanna]# exit
exit
[ec2-user@ip-172-31-12-246 ~]$ kubectl delete pod/pvcpod
pod "pvcpod" deleted
[ec2-user@ip-172-31-12-246 ~]$ kubectl get po
NAME READY STATUS RESTARTS AGE
nfs-client-provisioner-57c6f46b94-p221s 1/1 Running 0 161m
[ec2-user@ip-172-31-12-246 ~]$
i-03d5a71bf0df22cbe (kubernetes)
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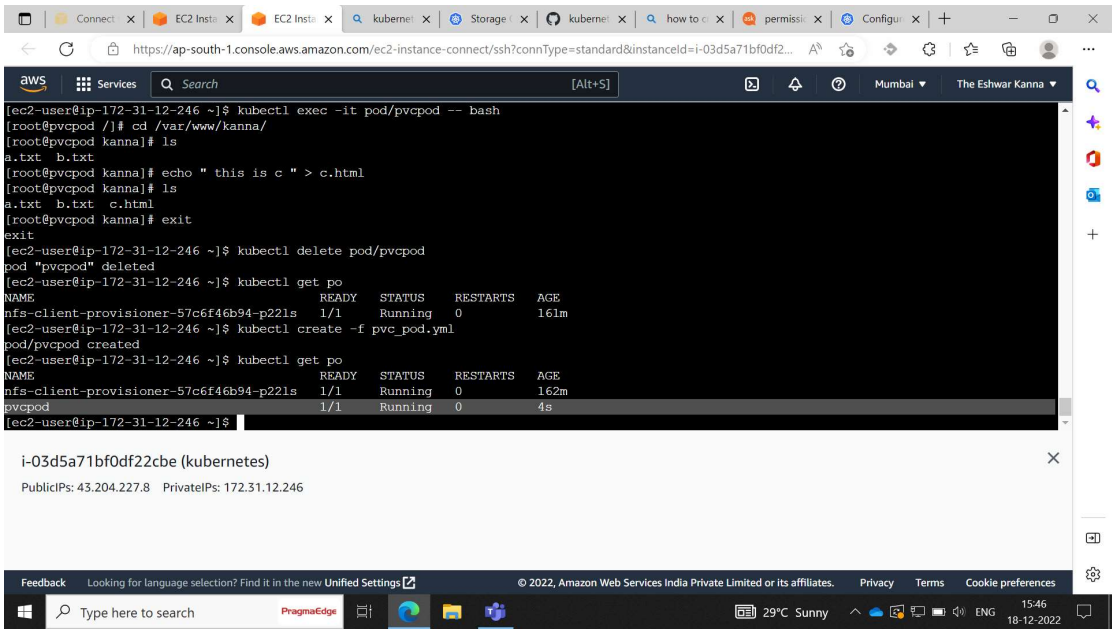
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-03d5a71bf0df2...
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[ec2-user@ip-172-31-12-246 ~]$ kubectl exec -it pod/pvcpod -- bash
[root@pvcpod /]# cd /var/www/kanna/
[root@pvcpod kanna]# ls
a.txt b.txt
[root@pvcpod kanna]# echo " this is c " > c.html
[root@pvcpod kanna]# ls
a.txt b.txt c.html
[root@pvcpod kanna]# exit
exit
[ec2-user@ip-172-31-12-246 ~]$ kubectl delete pod/pvcpod
pod "pvcpod" deleted
[ec2-user@ip-172-31-12-246 ~]$ kubectl get po
NAME READY STATUS RESTARTS AGE
nfs-client-provisioner-57c6f46b94-p221s 1/1 Running 0 161m
[ec2-user@ip-172-31-12-246 ~]$ kubectl create -f pvc_pod.yml
pod/pvcpod created
[ec2-user@ip-172-31-12-246 ~]$ kubectl get po
NAME READY STATUS RESTARTS AGE
nfs-client-provisioner-57c6f46b94-p221s 1/1 Running 0 162m
pvcpod 1/1 Running 0 4s
[ec2-user@ip-172-31-12-246 ~]$
i-03d5a71bf0df22cbe (kubernetes)
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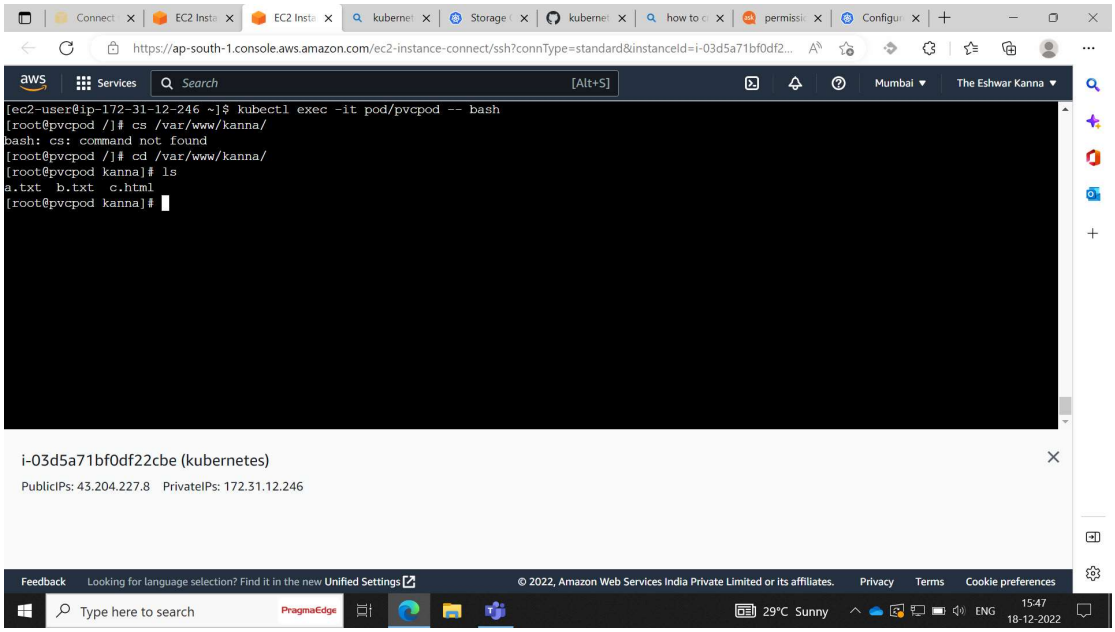
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-03d5a71bf0df2...
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[ec2-user@ip-172-31-12-246 ~]$ kubectl exec -it pod/pvcpod -- bash
[root@pvcpod /]# cs /var/www/kanna/
bash: cs: command not found
[root@pvcpod /]# cd /var/www/kanna/
[root@pvcpod kanna]# ls
a.txt b.txt c.html
[root@pvcpod kanna]#
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