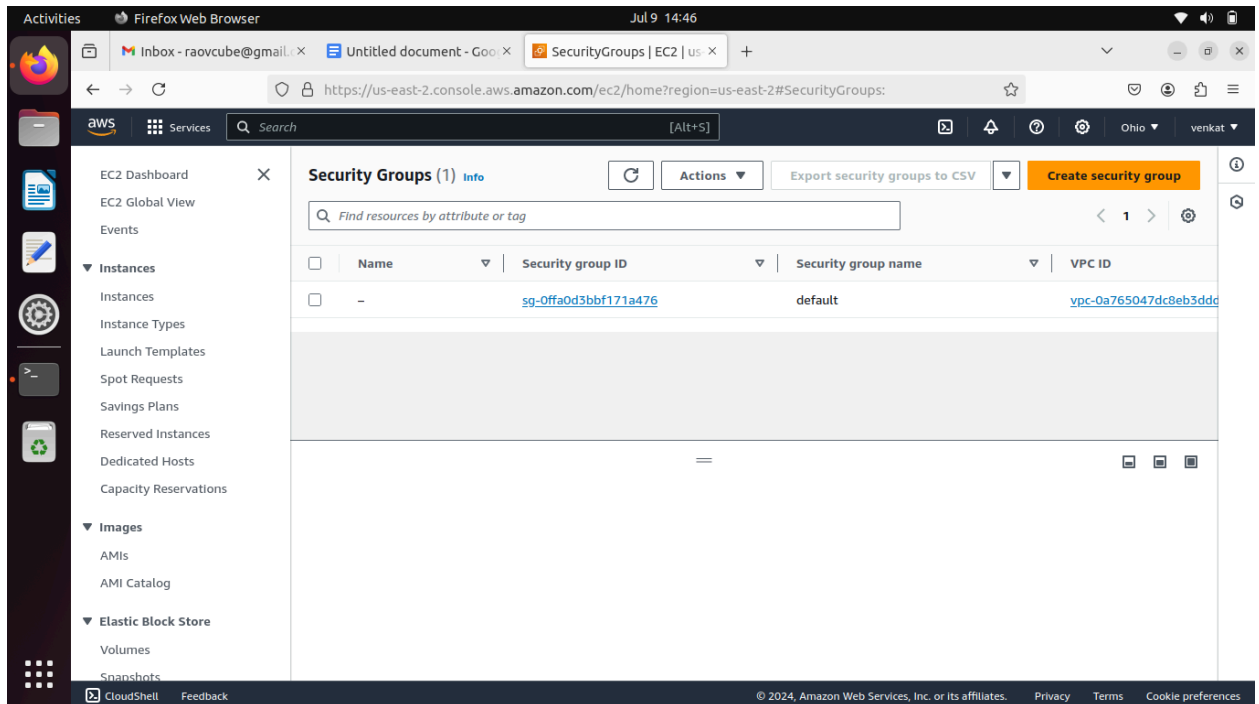
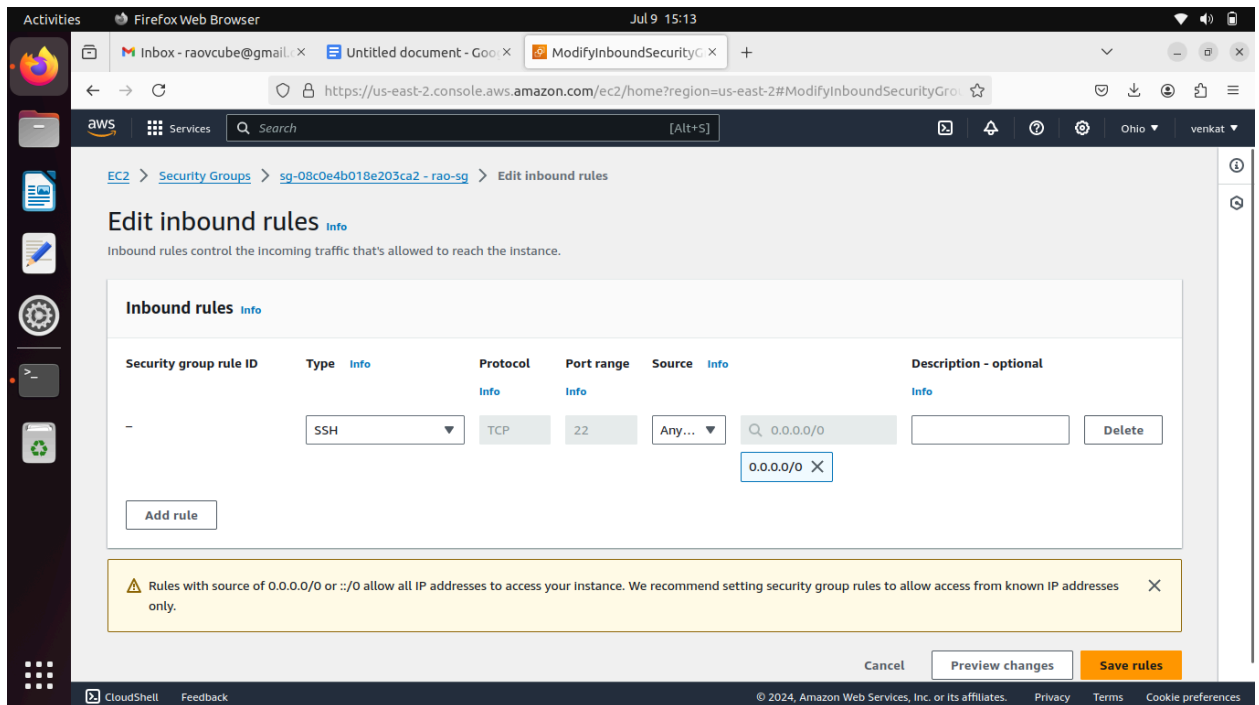


## Efs

- 1) If you use efs you create files on one server it shares files automatically with all efs attached servers
- 2) First create one security group ec2 → security group → click on create security group

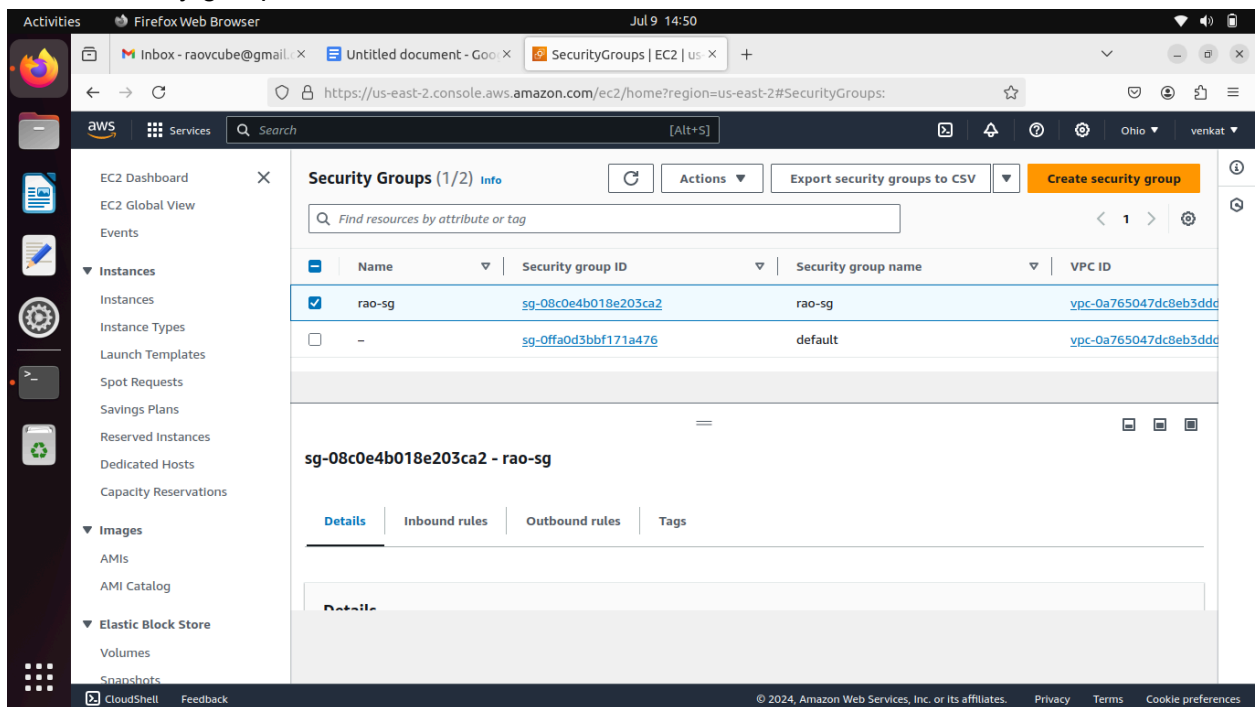


- 3) Security group name = rao-sg
- 4) If you have your own create vpc attach it or use default allow traffic or ssh and click one
- 5) If you allow 22 port you can login otherwise you cannot login add rule = ssh



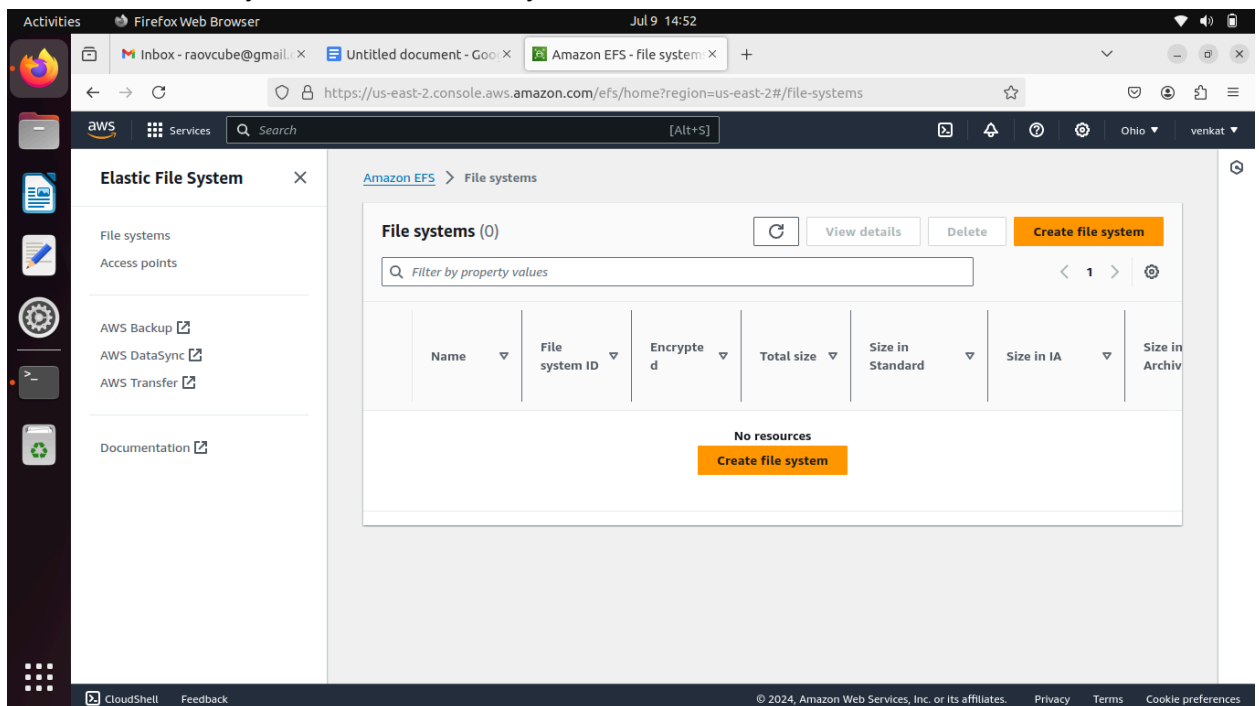
6)

7) create security group



8)

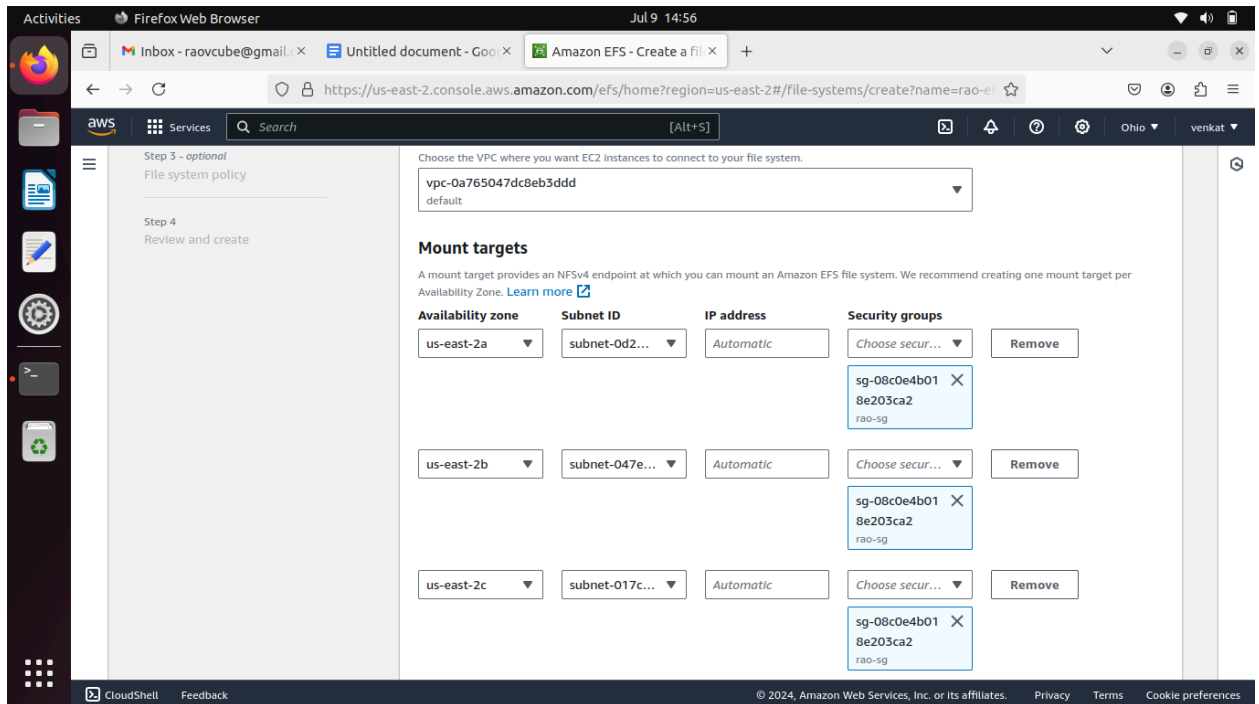
9) Go to efs —> file systems—>create filesystem



10)

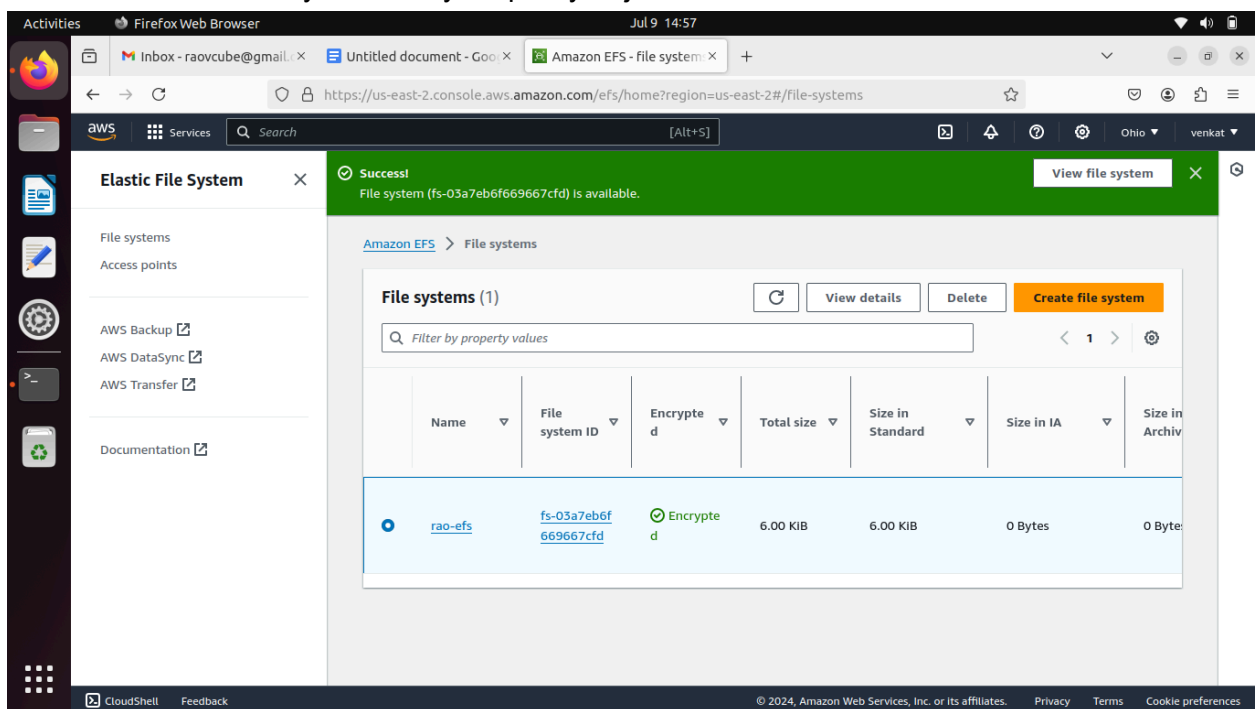
11) Give name = rao-efs and click on customize

12) Click on next in networking select vpc and select security group in all zones rao-sg only



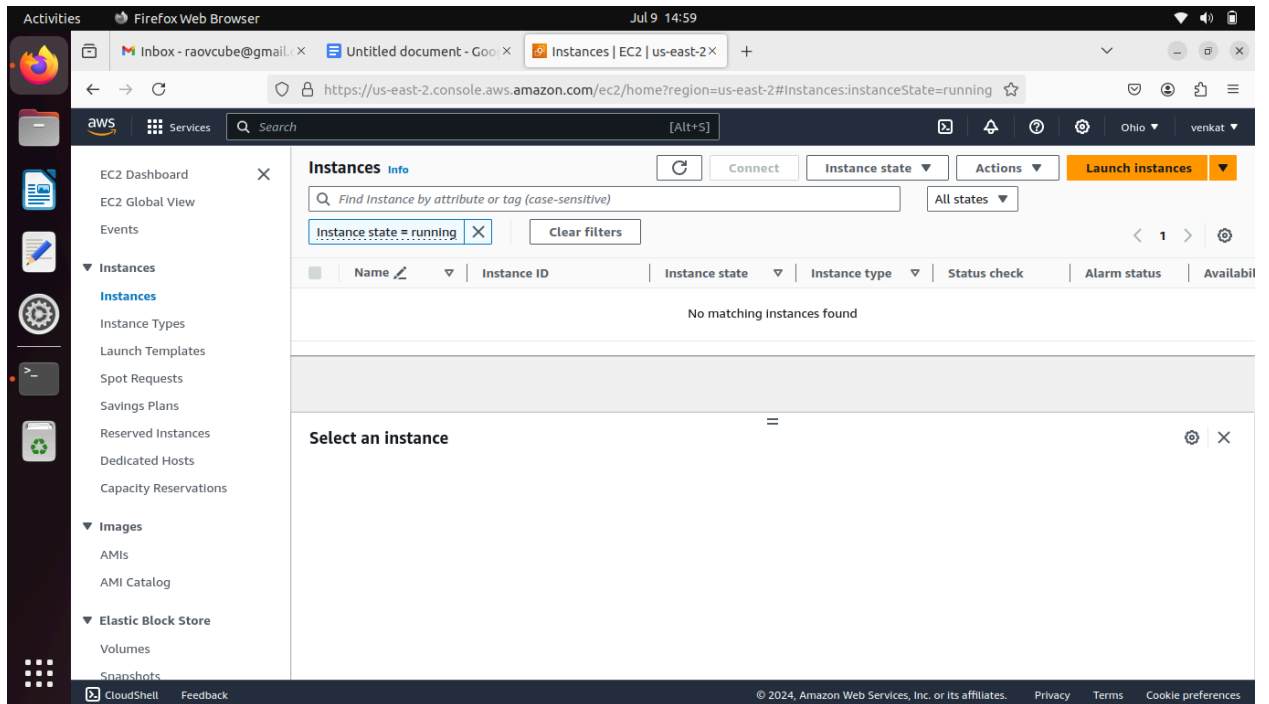
13)

14) Click on next and here you select your policy or just click next and create



15)

16) Now go to ec2 and crete 2 instances using this efs=rao-efs and security= rao-sg only



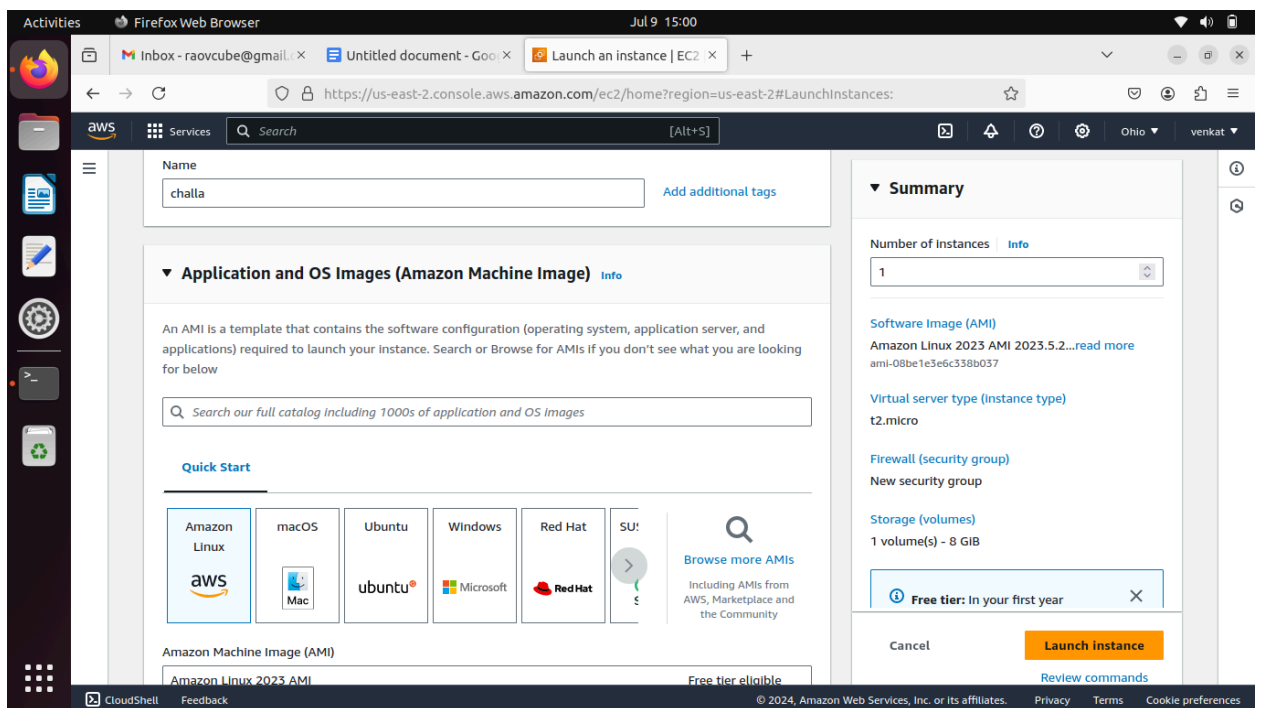
17)

18) Ec2

19) Launch instance

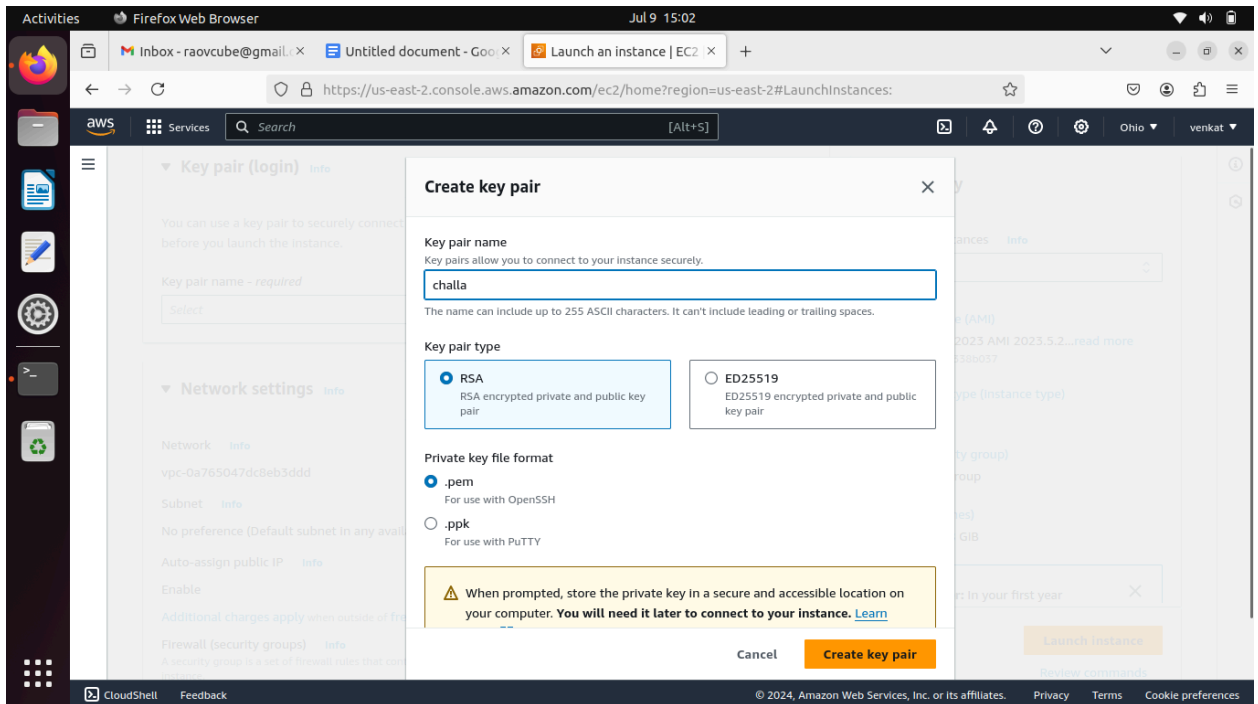
20) Instance name = challa

21) Os = amazon linux



22)

23) Click on create new key pair= challa

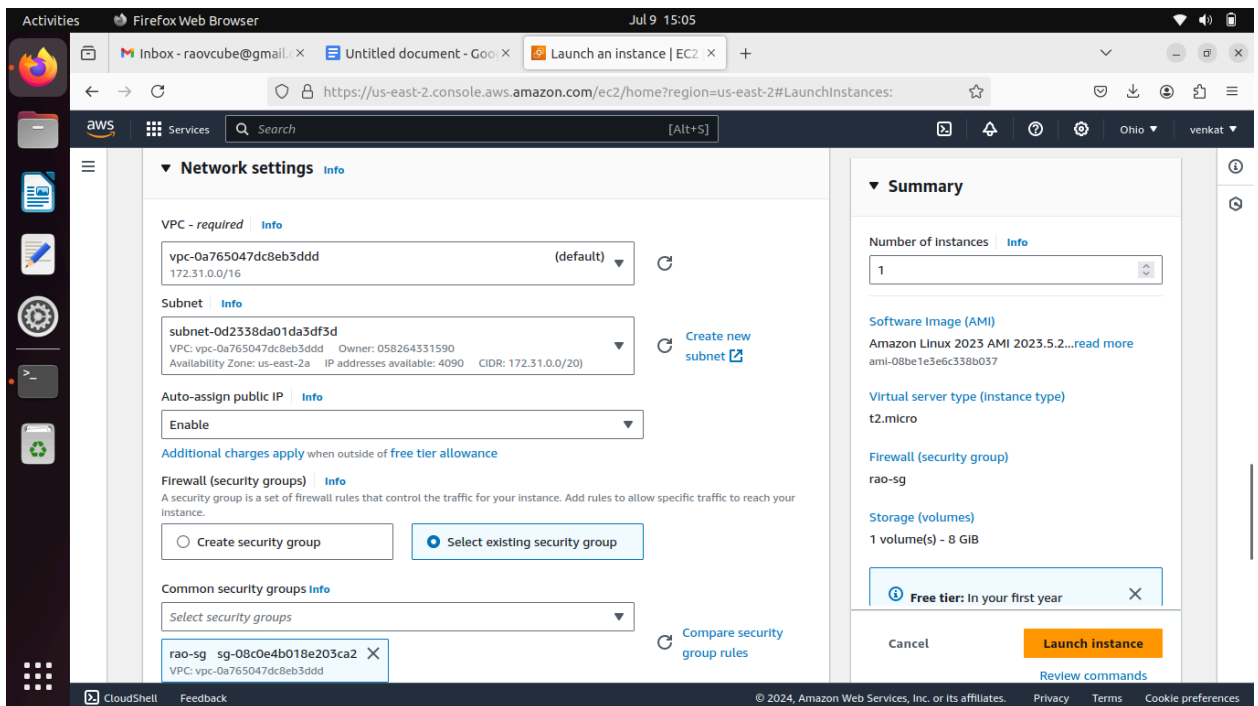


24)

25) Network settings click edit

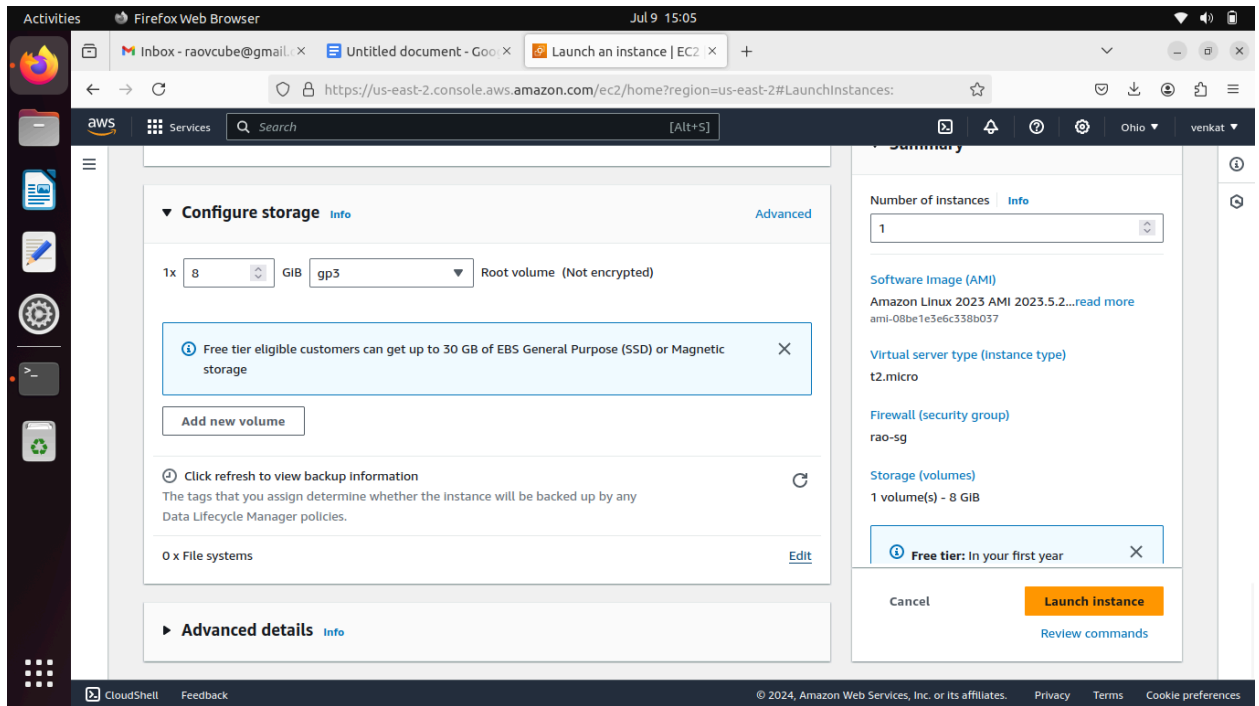
26) Select vpc and subnet and public ip=enable

27) Click select exiting security group= rao-sg



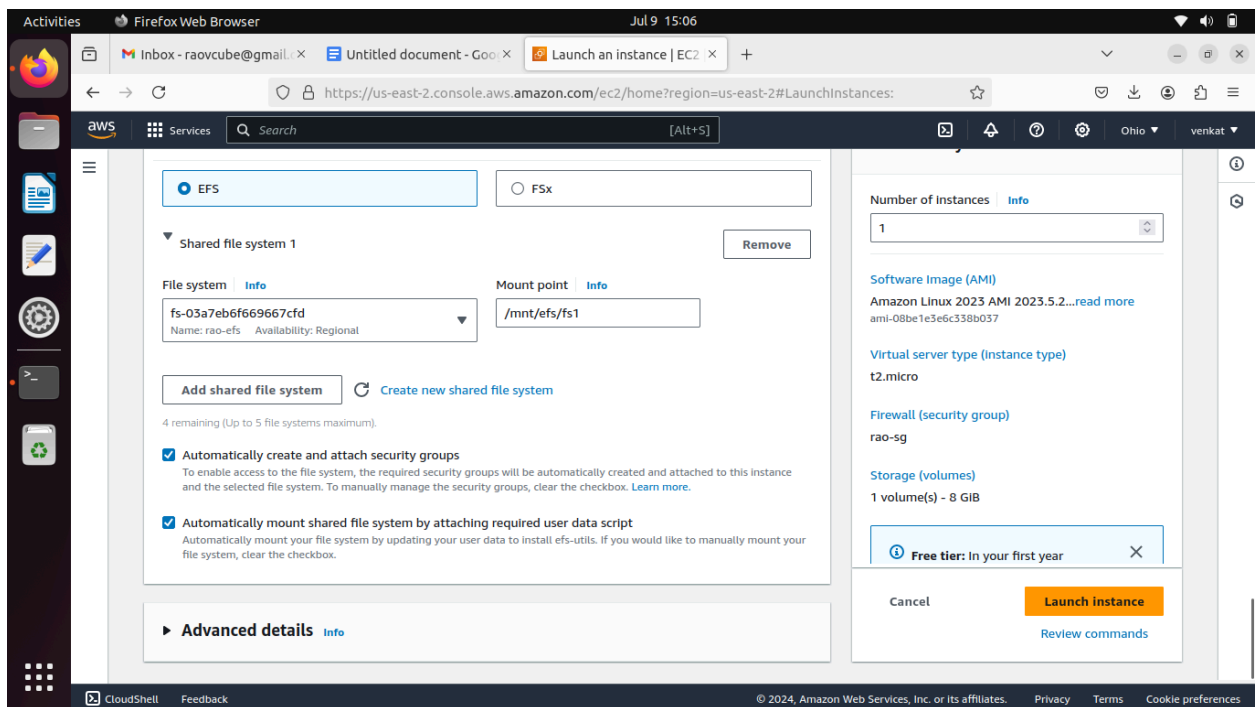
28)

29) Configure storage= edit



30)

31) efs=rao-efs



32)

33) Click on launch instance

Activities Firefox Web Browser Jul 9 15:07

Instances | EC2 | us-east-2

https://us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:

aws Services Search [Alt+S]

EC2 Dashboard EC2 Global View Events

▼ Instances

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations

▼ Images

- AMIs
- AMI Catalog

▼ Elastic Block Store

- Volumes
- Snapshots

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

All states

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input checked="" type="checkbox"/>	challa	i-06b8cbb03e81f1c6b	Pending	t2.micro	-	View alarms +	us-east-2

i-06b8cbb03e81f1c6b (challa)

Details Status and alarms Monitoring Security Networking Storage Tags

▼ Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-06b8cbb03e81f1c6b (challa)	18.222.179.109   open address	172.31.12.42
IPv6 address	Instance state	Public IPv4 DNS
-	Pending	ec2-18-222-179-109.us-east-2.compute.amazonaws.com

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34)

35) Using same steps create baby instance using same configuration

Activities Firefox Web Browser Jul 9 15:09

Instances | EC2 | us-east-2

https://us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:

aws Services Search [Alt+S]

EC2 Dashboard EC2 Global View Events

▼ Instances

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
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- Capacity Reservations

▼ Images

- AMIs
- AMI Catalog

▼ Elastic Block Store

- Volumes
- Snapshots

Instances (1/2) Info

Find Instance by attribute or tag (case-sensitive)

All states

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input type="checkbox"/>	baby	i-0ba70c083198813c1	Pending	t2.micro	-	View alarms +	us-east-2
<input checked="" type="checkbox"/>	challa	i-06b8cbb03e81f1c6b	Running	t2.micro	2/2 checks passed	View alarms +	us-east-2

i-06b8cbb03e81f1c6b (challa)

Details Status and alarms Monitoring Security Networking Storage Tags

▼ Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-06b8cbb03e81f1c6b (challa)	18.222.179.109   open address	172.31.12.42
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-18-222-179-109.us-east-2.compute.amazonaws.com

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36)

37) Now login challa server using ssh command





- 47) #ll
- 48) #cd fs1
- 49) #ll
- 50) #touch venkey
- 51) #touch potti
- 52) #mkdir pilla

```

root@challa: /mnt/efs/fs1
[root@challa ~]# cd /mnt
[root@challa mnt]# ll
total 0
drwxr-xr-x. 3 root root 17 Jul  9 09:38 efs
[root@challa mnt]# cd efs
[root@challa efs]# ll
total 4
drwxr-xr-x. 2 root root 6144 Jul  9 09:27 fs1
[root@challa efs]# cd fs1
[root@challa fs1]# ll
total 0
[root@challa fs1]# touch venkey
[root@challa fs1]# touch potti
[root@challa fs1]# mkdir pilla
[root@challa fs1]# ll
total 12
drwxr-xr-x. 2 root root 6144 Jul  9 10:03 pilla
-rw-r--r--. 1 root root  0 Jul  9 10:03 potti
-rw-r--r--. 1 root root  0 Jul  9 10:03 venkey
[root@challa fs1]#

```

- 53)
- 54) Now go to server2 baby login and check files venkey potti and pilla directory are not

```

root@ip-172-31-22-73: /mnt/efs/fs1
ED25519 key fingerprint is SHA256:5JEaszNypb6e6IvRFA9NCQXKXAQodhQ9kUm/PufUa4.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-3-141-6-92.us-east-2.compute.amazonaws.com' (ED25519) to the list of known hosts.
#
##### Amazon Linux 2023
#####
##### https://aws.amazon.com/linux/amazon-linux-2023
#####
[ec2-user@ip-172-31-22-73 ~]$ sudo -i
[root@ip-172-31-22-73 ~]# hostnamectl set-hostname baby
[root@ip-172-31-22-73 ~]# exec bash
[root@baby ~]# ll
total 0
[root@baby ~]# cd /mnt
bash: cd: /mnt: No such file or directory
[root@baby ~]# cd /mnt
[root@baby mnt]# ll
total 0
drwxr-xr-x. 3 root root 17 Jul  9 09:40 efs
[root@baby mnt]# cd efs
[root@baby efs]# ll
total 4
drwxr-xr-x. 3 root root 6144 Jul  9 10:03 fs1
[root@baby efs]# cd fs1
[root@baby fs1]# ll
total 12
drwxr-xr-x. 2 root root 6144 Jul  9 10:03 pilla
-rw-r--r--. 1 root root  0 Jul  9 10:03 potti
-rw-r--r--. 1 root root  0 Jul  9 10:03 venkey
[root@baby fs1]#

```

- 55)

56) Using efs we share multiple servers.