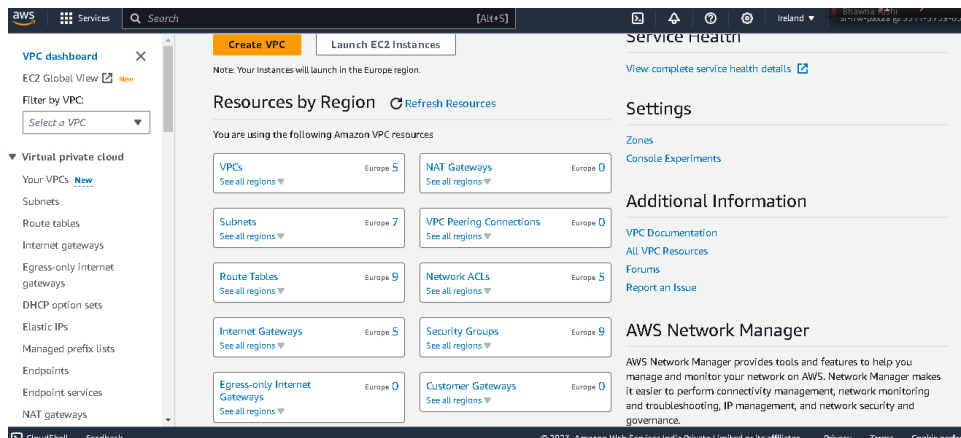
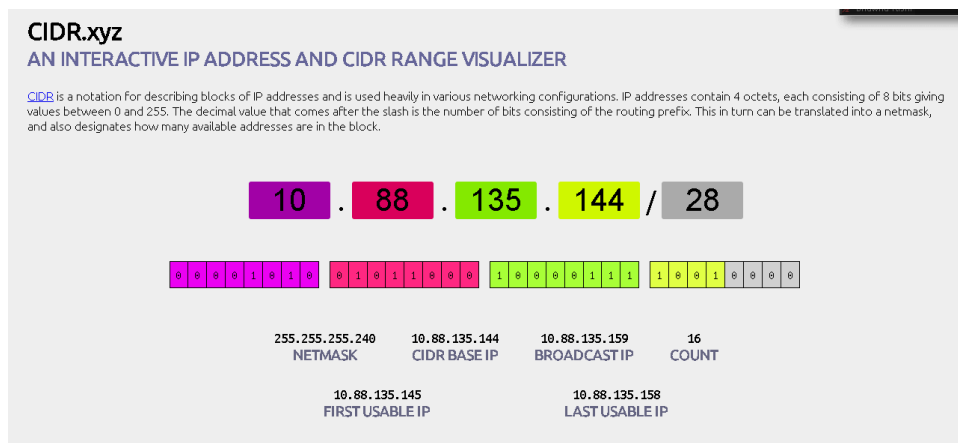


1. VPC ((Open aws then go to vpc-EC2))



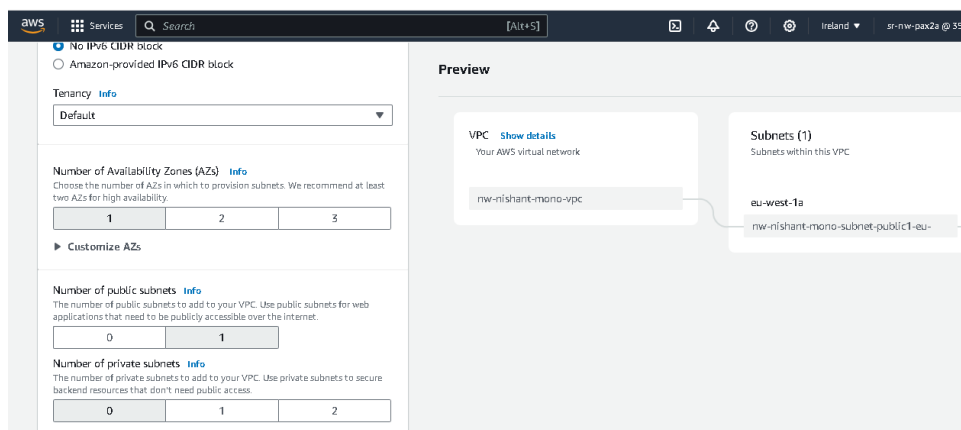
2. (Understanding of ip address)

<https://cidr.xyz/>

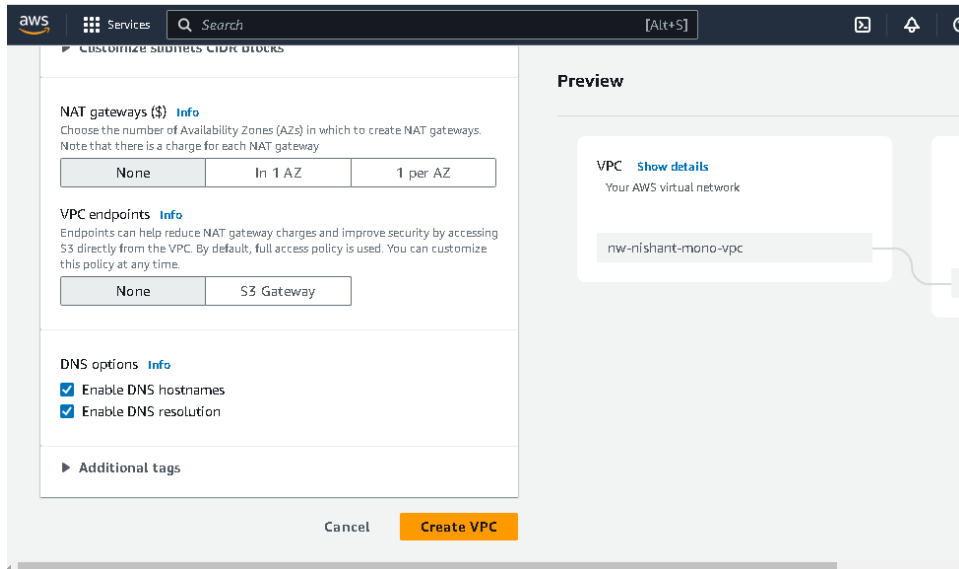


3.

(Create VPC with below instructions)



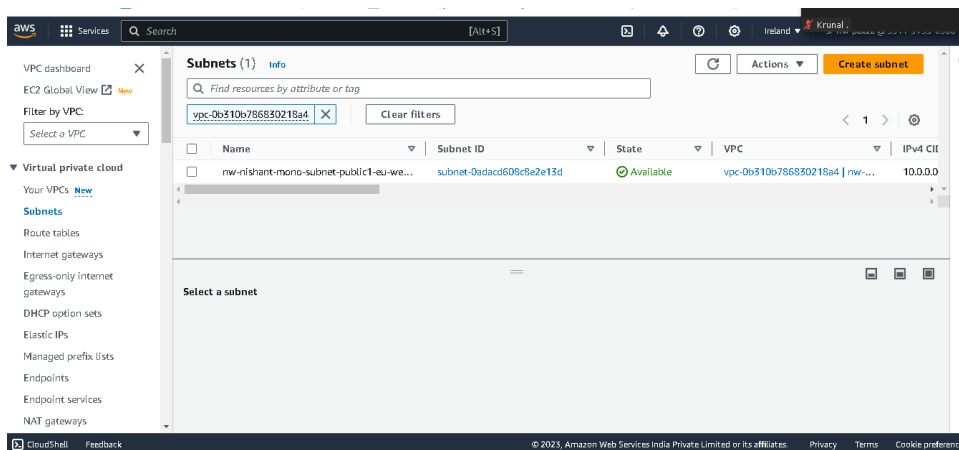
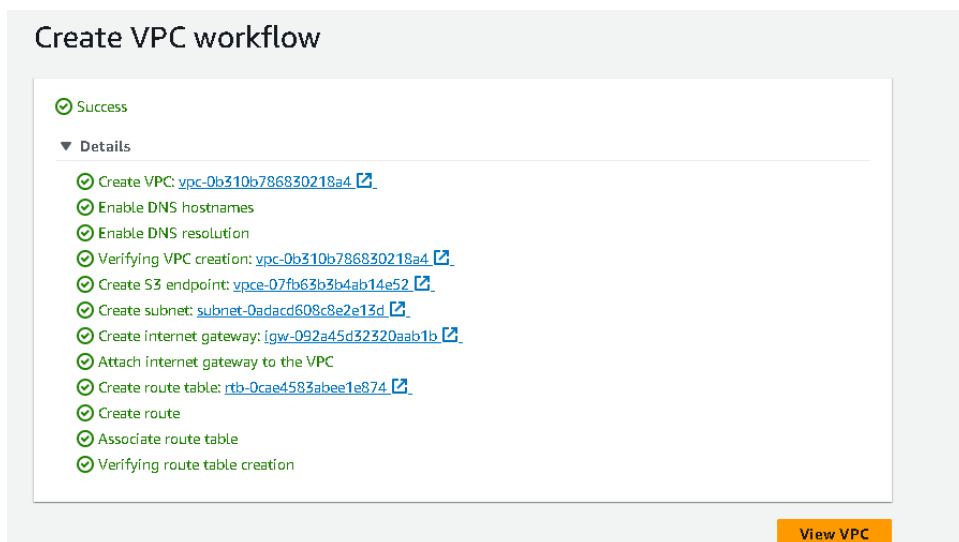
4.



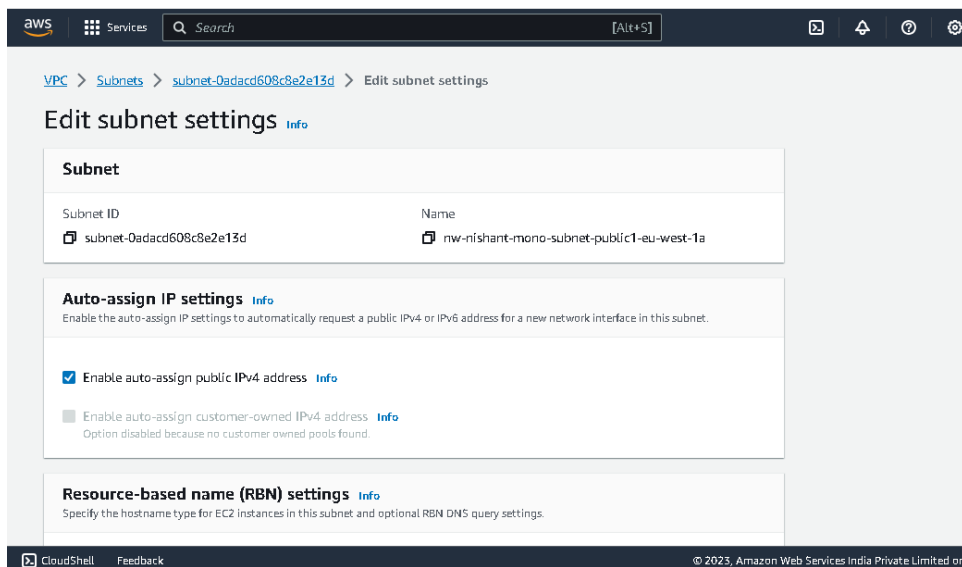
5.

[vpc-0b310b786830218a4](#)

vpc-0b310b786830218a4

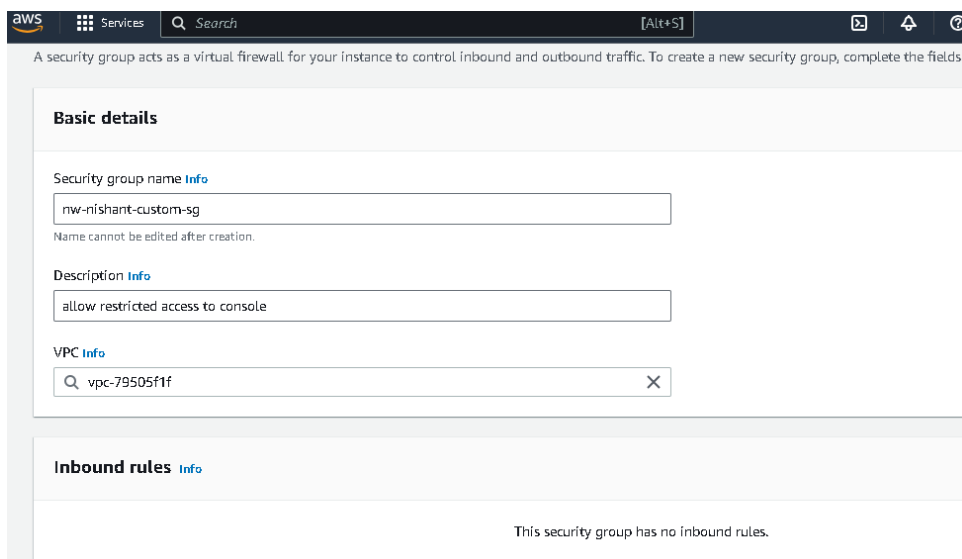


6.

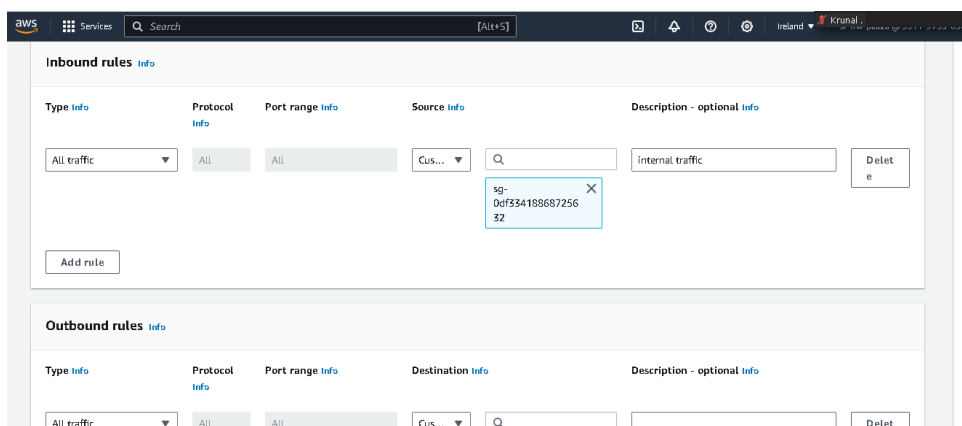


sg-0df33418868725632

7.



8.



9.

The screenshot shows the 'Inbound rules' configuration page in the AWS IAM console. It features a table with columns: Type, Protocol, Port range, Source, and Description - optional info. There are two rules listed: one for 'All traffic' and one for 'SSH'. The 'SSH' rule is selected, and its 'Source' field is being edited to include 'sg-0df33418868725632' and '49.37.72.177/32'. The 'Add rule' button is visible at the bottom left.

10: create new instance in EC2.

The screenshot shows the AWS Management Console interface for creating a new EC2 instance. The 'Subnet' dropdown is set to 'nw-nishant-mono-subnet-public1-eu-west-1a'. The 'Auto-assign public IP' is set to 'Enable'. Under 'Firewall (security groups)', the 'Select existing security group' button is highlighted. Below this, two security groups are listed: 'default sg-0df33418868725632' and 'nw-nishant-custom-sg sg-08056d375c9e190c1'. The 'Compare security group rules' button is also visible. The bottom part of the screenshot shows the 'Inbound rules' tab for the selected security group, displaying a table of rules.

Name	Security group rule...	IP version	Type	Protocol
-	sg-004e8bbf9b3b092c5	-	All traffic	All
-	sg-0b243de5e109a5090	IPv4	SSH	TCP
-	sg-005cacc37d6334fb9	IPv4	Custom TCP	TCP
-	sg-01b58c0273c7d54fa	IPv4	HTTP	TCP

11: [i-0a9593834a95d309e](#)

Open putty

: `sudo apt update`

: `sudo apt install apache2 -y`

12:



13.

Setup jupyterlab

Install python

```
Expanded Security Maintenance for Applications is not enabled.

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

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Wed Oct 11 07:19:41 2023 from 49.37.72.177
ubuntu@ip-10-0-10-37:~$ sudo apt install python3-pip
```

14.

Pip3 install jupyterlab

Sudo apt update

```
systemctl restart user@1000.service

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-10-0-10-37:~$ pip3 install jupyterlab
Defaulting to user installation because normal site-packages is not writeable
Collecting jupyterlab
  Downloading jupyterlab-4.0.6-py3-none-any.whl (9.2 MB)
    ----- 9.2/9.2 MB 47.0 MB/s eta 0:00:00
Collecting notebook-shim>=0.2
  Downloading notebook_shim-0.2.3-py3-none-any.whl (13 kB)
Collecting tornado>=6.2.0
```

15.

Exec bash

Exit

Reopen putty

16.

Jupyter server --generate-config

Nano .jupyter/jupyter_server_config.py

```
ubuntu@ip-10-0-10-37: ~  
ubuntu@ip-10-0-10-37:~$ jupyter server --generate-config  
Writing default config to: /home/ubuntu/.jupyter/jupyter_server_config.py  
ubuntu@ip-10-0-10-37:~$ nano .jupyter/jupyter/jupyter_server_config.py  
ubuntu@ip-10-0-10-37:~$ nano .jupyter/jupyter_server_config.py  
ubuntu@ip-10-0-10-37:~$
```

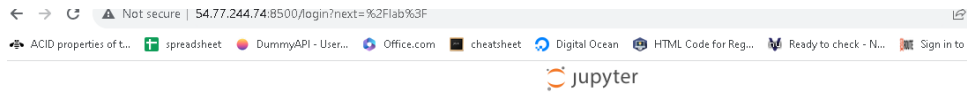
```
ubuntu@ip-10-0-10-37: ~  
GNU nano 6.2 .jupyter/jup  
# Configuration file for jupyter-server.  
  
c = get_config() #noqa  
c.ServerApp.ip = '*'  
c.ServerApp.port = 8500  
#-----  
# Application(SingletonConfigurable) configuration  
#-----  
## This is an application.  
  
## The date format used by logging formatters for %(asctime)s  
# Default: '%Y-%m-%d %H:%M:%S'  
# c.Application.log_datefmt = '%Y-%m-%d %H:%M:%S'  
  
## The Logging format template  
# Default: '[%(name)s]%(highlevel)s %(message)s'  
# c.Application.log_format = '%(name)s: %(levelname)s %(message)s'  
  
ubuntu@ip-10-0-10-37:~$ nano .jupyter/jupyter/jupyter_server_config.py  
ubuntu@ip-10-0-10-37:~$ nano .jupyter/jupyter_server_config.py  
ubuntu@ip-10-0-10-37:~$ screen
```

Screen

2 times space

Jupyter-lab --no-browser

```
ubuntu@ip-10-0-10-37: ~  
ubuntu@ip-10-0-10-37:~$ jupyter-lab --no-browser
```



Token authentication is enabled

If no password has been configured, you need to open the server with its login token in the URL, or paste it above. This requirement will be lifted if you [enable a password](#).

The command:

```
jupyter server list
```

will show you the URLs of running servers with their tokens, which you can copy and paste into your browser. For example:

```
Currently running servers:  
http://localhost:8888/?token=c8de56fa... : /Users/you/notebooks
```

or you can paste just the token value into the password field on this page.

See [the documentation on how to enable a password](#) in place of token authentication, if you would like to avoid dealing with random tokens.

Cookies are required for authenticated access to the Jupyter server.

Setup a Password

Token no: b674d25cbf5965e42f73f7f786b93fd2482185e6d5066fdc

or you can paste just the token value into the password field on this page.

See [the documentation on how to enable a password](#) in place of token authentication, if you would like to avoid dealing with random tokens.

Cookies are required for authenticated access to the Jupyter server.

Setup a Password

You can also setup a password by entering your token and a new password on the fields below.

Token

New Password

Log in and set new password

