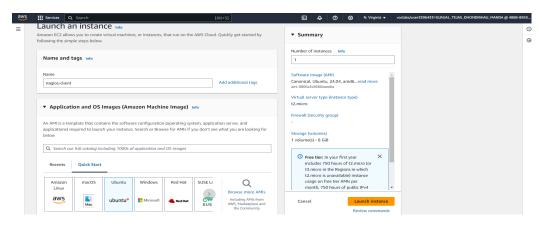
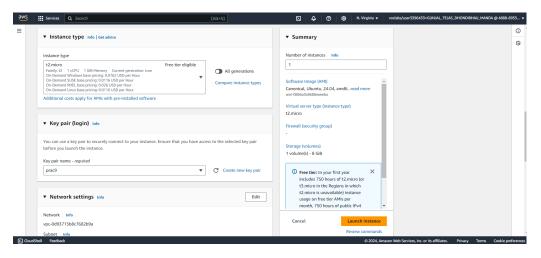
EXPERIMENT NO: - 10

AIM: - To perform Port, Service monitoring, Windows/Linux server monitoring using Nagios.

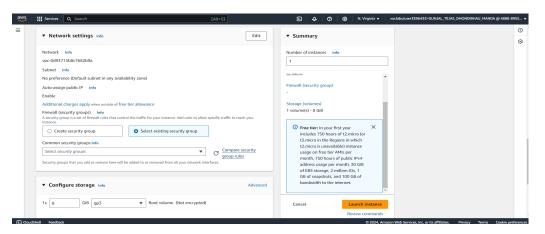
Launch an instance



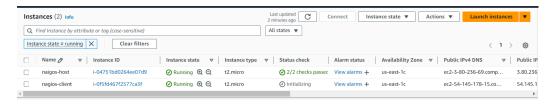
Select Ubuntu as the os give a meaningful name of the instance.
 Make sure to select the same key-pair login used in the prac9 machine



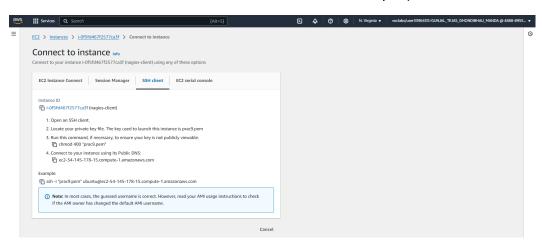
Click on launch instance.



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□ Now connect with this client machine using the ssh through your terminal(open a new terminal in your local machine and we will need both of the terminals open)



Nagios Host



Note to change the path of the .pem file.

```
C:\Users\TEJAS>ssh -i "C:\Users\TEJAS\Downloads\prac9.pem" ubuntu@ec2-23-20-116-3.compute-1.amazonaws.com
The authenticity of host 'ec2-23-20-116-3.compute-1.amazonaws.com (23.20.116.3)' can't be established.
ED25519 key fingerprint is SHA256:xxysTIgWrQlHqj1JboIduB2W/+mVVHHycTGpqaSb5uo.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-23-20-116-3.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1016-aws x86_64)

* Documentation: https://help.ubuntu.com
* Management: https://help.ubuntu.com/pro
System information as of Mon Oct 7 13:19:03 UTC 2024

System load: 0.59
Usage of /: 22.9% of 6.71GB
Users logged in: 0
Memory usage: 22%
IPv4 address for enX0: 172.31.46.217
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.

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

The list of available updates is more than a week old.
```

☐ Go to nagios host machine (Host machine) & Perform the following commands

ps -ef | grep nagios

```
| [ec2-user@ip-172-31-46-179 "]$ ps -ef | grep nagios | nagios | 3420 | 1 0 12:40 | ? | 00:00:00 | /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg | nagios | 3421 | 3420 | 0 12:40 | ? | 00:00:00 | /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh | nagios | 3422 | 3420 | 0 12:40 | ? | 00:00:00 | /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh | nagios | 3423 | 3420 | 0 12:40 | ? | 00:00:00 | /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh | nagios | 3424 | 3420 | 0 12:40 | ? | 00:00:00 | /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh | nagios | 3425 | 3420 | 3420 | 0 12:40 | ? | 00:00:00 | /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh | nagios | 3425 | 3420 | 3420 | 0 12:40 | ? | 00:00:00 | /usr/local/nagios/bin/nagios | d/usr/local/nagios/etc/nagios.cfg | 00:00:00 | /usr/local/nagios/bin/nagios | d/usr/local/nagios/etc/nagios.cfg | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00
```

mkdir -p /usr/local/nagios/etc/objects/monitorhosts/linuxhosts

```
[ec2-user@ip-172-31-46-179 ~]$ sudo su
[root@ip-172-31-46-179 ec2-user]# mkdir -p /usr/local/nagios/etc/objects/monitorhosts/linuxhosts
[root@ip-172-31-46-179 ec2-user]# ls
downloads nagios-4.4.6 nagios-4.4.6.tar.gz nagios-plugins-2.3.3.tar.gz
```

cp /usr/local/nagios/etc/objects/localhost.cfg /usr/local/nagios/etc/objects/monitorhosts/linuxhosts/linuxserver.cfg

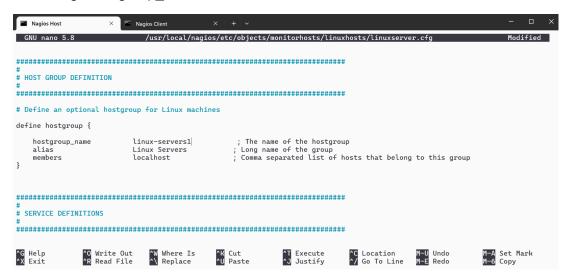
```
[root@ip-172-31-46-179 ec2-user]# cp /usr/local/nagios/etc/objects/local/host.cfg /usr/local/nagios/etc/objects/monitorhosts/linuxhosts/linuxserver.cfg
```

nano /usr/local/nagios/etc/objects/monitorhosts/linuxhosts/linuxserver.cfg

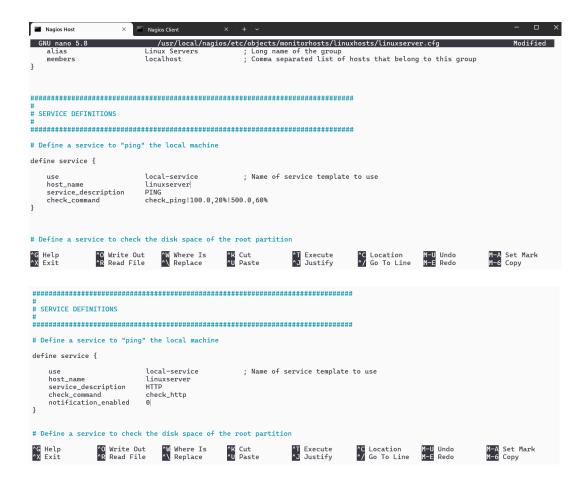
```
[root@ip-172-31-46-179 ec2-user]# nano /usr/local/nagios/etc/objects/monitorhosts/linuxhosts/linuxserver.cfg
[root@ip-172-31-46-179 ec2-user]# |
```

 Change hostname and alias to linuxserver Change address to public ip address of client instance (Ubuntu instance)

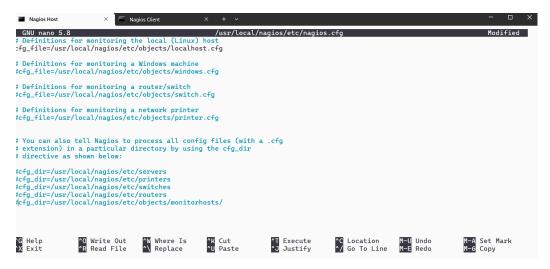
Change hostgroup_name to linux-servers1



Change the occurrences of hostname further in the document from localhost to linuxserver



 Open nagios configuration file and add the line shown below cfg_dir=/usr/local/nagios/etc/objects/monitorhosts/



□ Verify configuration files
/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg

```
Read object config files okay...

Running pre-flight check on configuration data...

Checking objects...

Checked 8 services.

Checked 1 hosts groups.

Checked 0 service groups.

Checked 1 contacts.

Checked 1 contacts.

Checked 2 time periods.

Checked 2 time periods.

Checked 5 time periods.

Checked 0 service escalations.

Checked 0 service escalations.

Checked 0 service dependencies.

Checked 9 host dependencies

Checked 5 timeperiods

Checked 5 timeperiods

Checked 5 timeperiods

Checked 1 hosts

Checked 9 host dependencies

Checking obsessive compulsive processor commands...

Checking miscs compulsive processor commands...

Total Warnings: 0

Total Warnings: 0

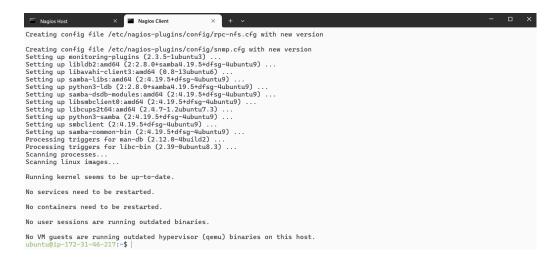
Total 6-179 ec2-user]# |
```

 Restart nagios service. service nagios restart

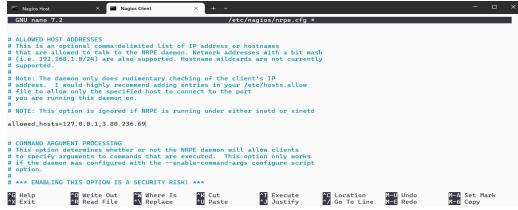
```
[root@ip-172-31-46-179 ec2-user]# service nagios restart
Redirecting to /bin/systemctl restart nagios.service
[root@ip-172-31-46-179 ec2-user]# |
```

 □ Go to client machine (ubuntu machine) & Perform the following commands sudo apt update -y sudo apt install gcc -y sudo apt install -y nagios-nrpe-server nagios-plugins

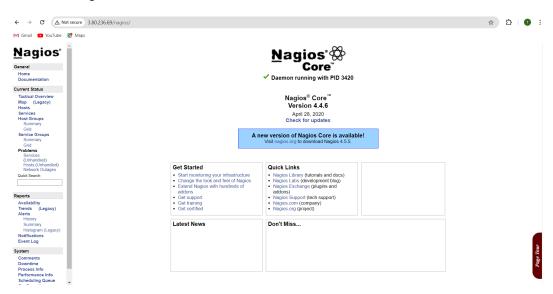
```
ubuntu@ip-172-31-46-217:-$ sudo apt update -y sudo apt install gcc -y sudo -y
```



Open the nrpe.cfg file in nano editor
 sudo nano /etc/nagios/nrpe.cfg
 Under allowed_hosts, add the nagios host ip address (public)



□ Go to nagios dashboard



□ Click on hosts



□ Click on linux server





□ Click on nagios services



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