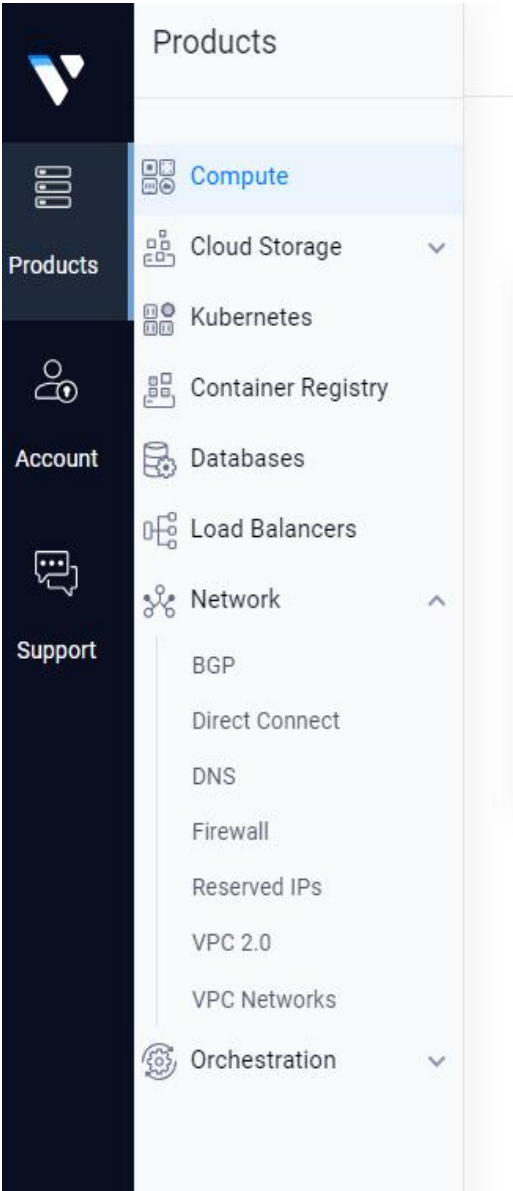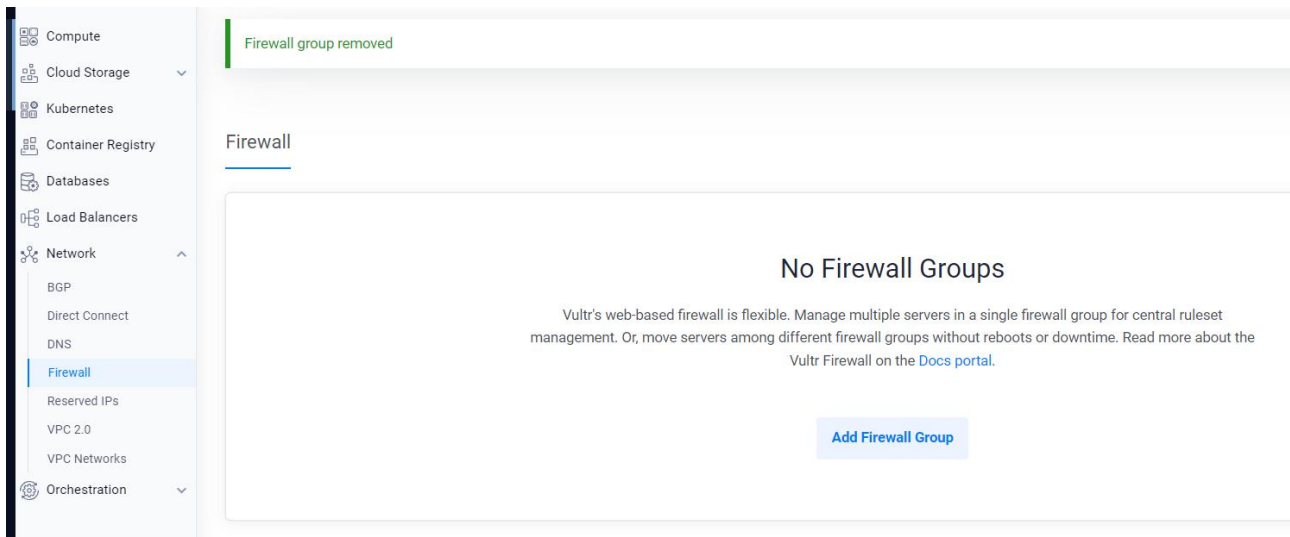# Vultr Node Setup procedure

Log on to your Vultr account.

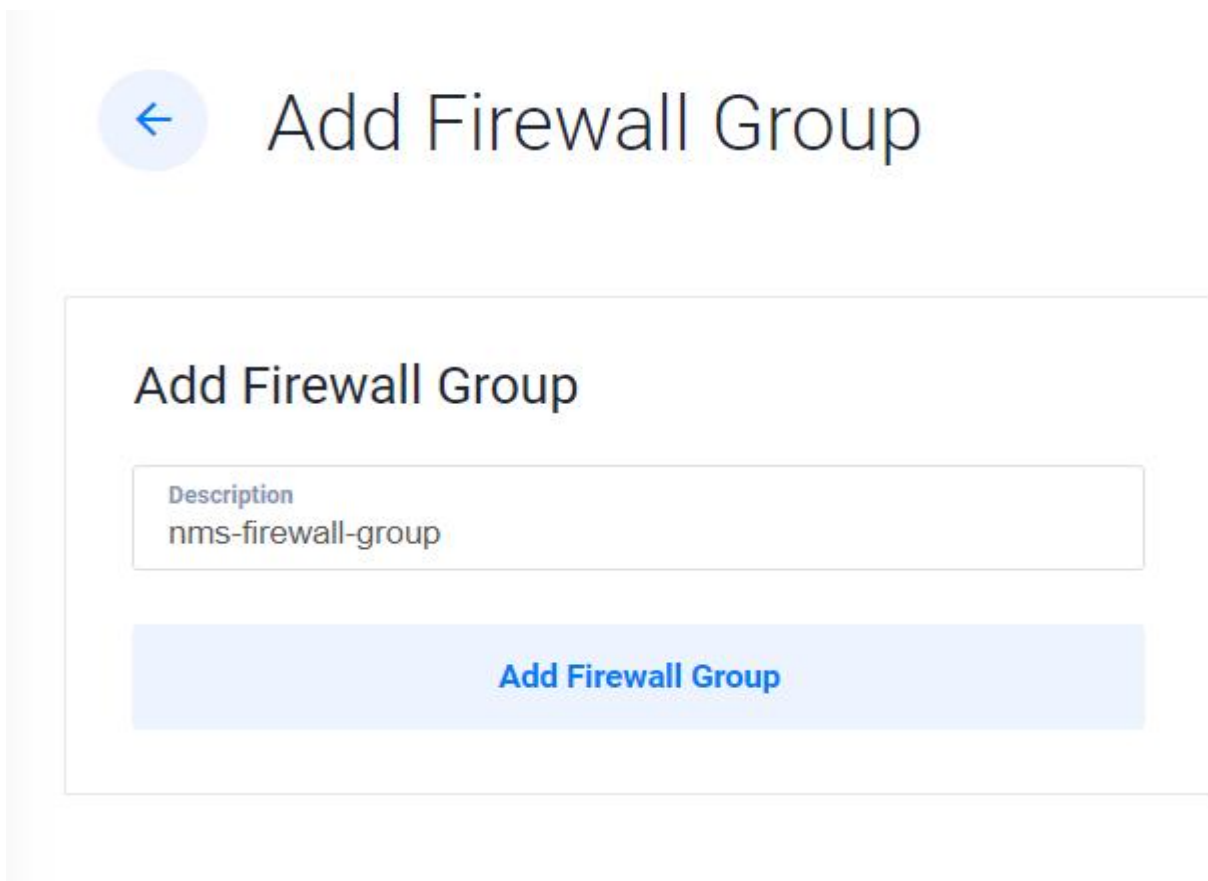Step 1. Create Firewall Group

Select Network and click on Firewall

Click on Add Firewall Group.

Enter description and click on Add Firewall Group

And add IPV4 rules for Master node as shown below

Manage Firewall Group

Group ID: 767d5fb5-5e46-421b-b438-79bf9d7c2c10   Created: 2023-11-22 14:01:39   Updated: 2023-11-22 14:02:34

Description	Group Rules	Linked Instances
nms-firewall-group	4/50	0

IPv4 Rules

IPv6 Rules

Linked Instances

Inbound IPv4 Rules

Action	Protocol	Port (or range) ⊙	Source		Notes	Action
accept	SSH	22	Anywhere	0.0.0.0/0	Add note	+
accept	SSH	22	0.0.0.0/0		📄	🗑
accept	TCP	8000 - 8001	0.0.0.0/0		📄	🗑
accept	TCP	9000 - 9001	0.0.0.0/0		📄	🗑
accept	TCP	19001 - 19004	0.0.0.0/0		📄	🗑
drop	any	0 - 65535	0.0.0.0/0			(default)

Or as shown below for Guardian node

Manage Firewall Group

Group ID: 767d5fb5-5e46-421b-b438-79bf9d7c2c10   Created: 2023-11-22 14:01:39   Updated: 2023-11-22 14:04:02

Description	Group Rules	Linked Instances
nms-firewall-group	4/50	0

IPv4 Rules

IPv6 Rules

Linked Instances

Inbound IPv4 Rules

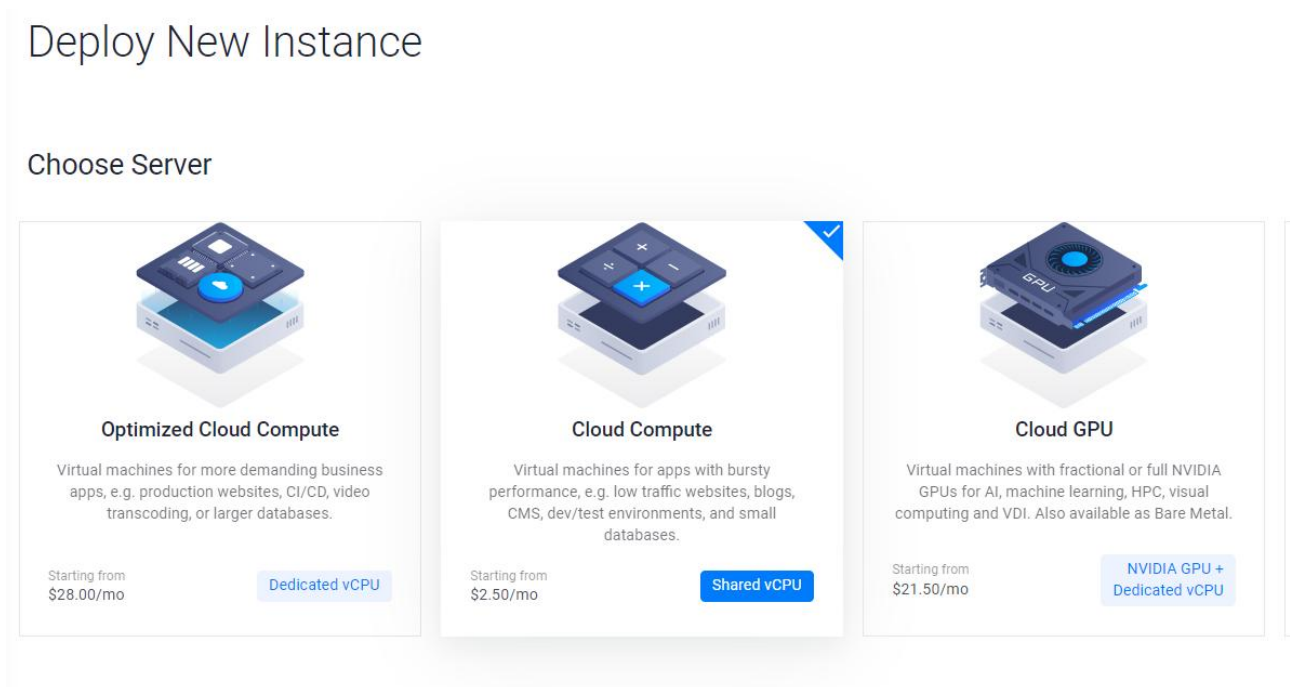| Action	Protocol	Port (or range) ⊙	Source		Notes	Action
accept	SSH	22	Anywhere	0.0.0.0/0	Add note	+
accept	SSH	22	0.0.0.0/0		📄	🗑
accept	TCP	8000 - 8001	0.0.0.0/0		📄	🗑
accept	TCP	9000 - 9001	0.0.0.0/0		📄	🗑
accept	TCP	9065 - 9066	0.0.0.0/0		📄	🗑
drop	any	0 - 65535	0.0.0.0/0			(default)

2. Create VPS

Now click on Compute
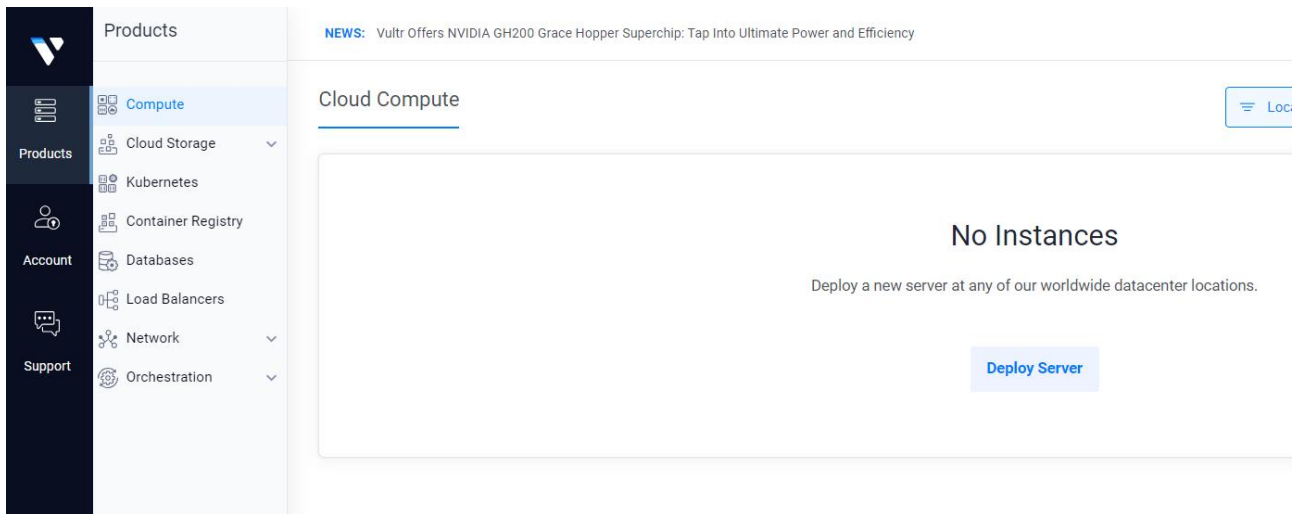
Click on Deploy Server

Choose server as shown below

Select AMD CPU and London location as shown below

in Server image select ubuntu 20.04 LTS x64

Select 350Gb, 8 CPU and 16Gb Ram size as shown below

Server Size

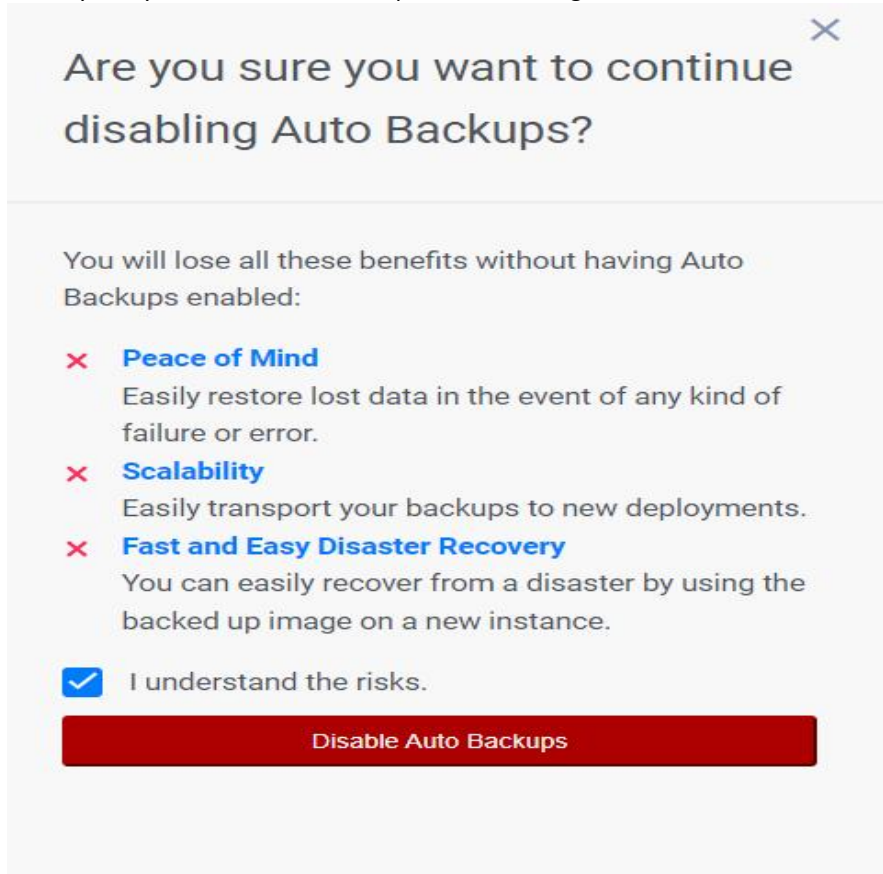|			
25 GB NVMe	**50 GB NVMe**	**60 GB NVMe**	**100 GB NVMe**
$6/month	**$12**/month	**$18**/month	**$24**/month
$0.009/hour	$0.018/hour	$0.027/hour	$0.036/hour
1 vCPU	**1** vCPU	**2** vCPUs	**2** vCPUs
1 GB Memory	**2 GB** Memory	**2 GB** Memory	**4 GB** Memory
2 TB Bandwidth	**3 TB** Bandwidth	**4 TB** Bandwidth	**5 TB** Bandwidth
180 GB NVMe	**260 GB NVMe**	**350 GB NVMe**	**500 GB NVMe**
$48/month	**$72**/month	**$96**/month	**$144**/month
$0.071/hour	$0.107/hour	$0.143/hour	$0.214/hour
4 vCPUs	**4** vCPUs	**8** vCPUs	**12** vCPUs
8 GB Memory	**12 GB** Memory	**16 GB** Memory	**24 GB** Memory
6 TB Bandwidth	**7 TB** Bandwidth	**8 TB** Bandwidth	**12 TB** Bandwidth

Disable Auto Backups

Add Auto Backups RECOMMENDED

Vultr offers automatic backup, which we highly recommend for mission-critical systems. Once backed up, you can easily recover from disaster by spinning up a new instance from a saved image.
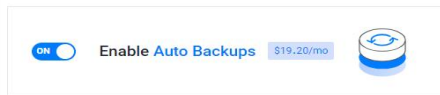

When you try to disable Auto backup, it shows dialog box as below

Are you sure you want to continue disabling Auto Backups?

You will lose all these benefits without having Auto Backups enabled:

✗ **Peace of Mind**
Easily restore lost data in the event of any kind of failure or error.

✗ **Scalability**
Easily transport your backups to new deployments.

✗ **Fast and Easy Disaster Recovery**
You can easily recover from a disaster by using the backed up image on a new instance.

☑ I understand the risks.

Disable Auto Backups

Select "I understand the risks." and click on Disable Auto Backups.

Add Auto Backups RECOMMENDED

Vultr offers automatic backup, which we highly recommend for mission-critic

OFF **Enable Auto Backups** $19.20/mo
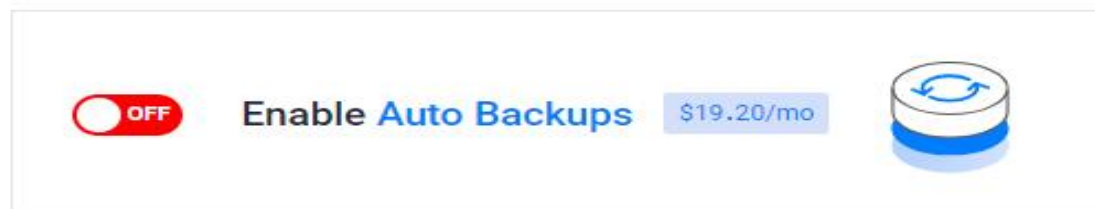
Backups are now disabled.

Make sure IPV6 is NOT selected in additional features , as shown below.

Additional Features

☐ Enable IPv6 ⑦

☐ Enable DDOS Protection $10/mo

☐ Enable Cloud-Init User-Data ⑦

☐ Enable Virtual Private Clouds ⑦

☐ Enable VPC 2.0 ⑦

☐ Enable Limited User Login ⑦

Now select firewall group created earlier and enter host name

Firewall Group (Manage)

767d5fb5-5e46-421b-b438-79bf9d7c2c10: nms-firewall-group

Server Hostname & Label

Enter server hostname (8/63)
nms-node

Enter server label
nms-node

Servers Qty: Summary:
− 1 +   **$115.20**/month ($0.171/hour)   **Deploy Now**

Click on Deploy Now to create the VPS
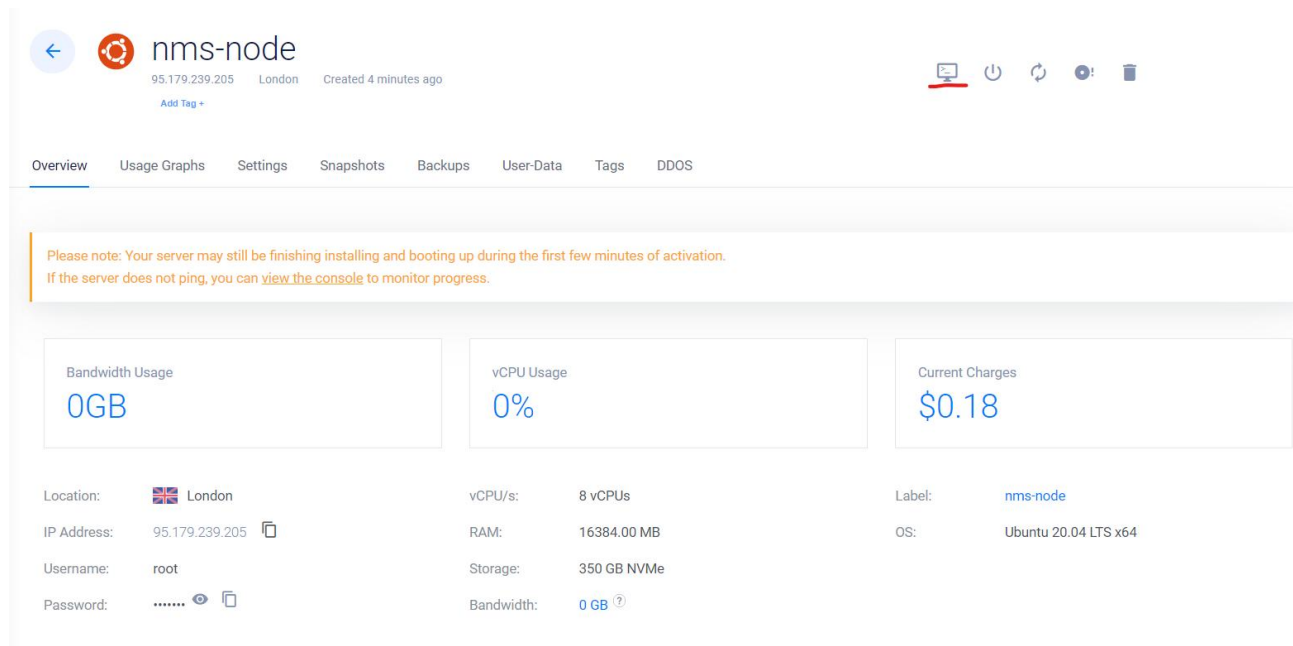
Server is successfully created

NMS Install Procedure (Vultr).

Click on the server which is created in the previous step

copy the ip address and password above to connect to server

From command line connect to server as below

ssh root@<IP Address>

Enter password copied from above

Now run commands:

echo "ubuntu ALL=(ALL) NOPASSWD:ALL" >> /etc/sudoers

sudo su – ubuntu

sudo ufw disable