

2nd Generation Viprinet Virtual Hub for Amazon AWS



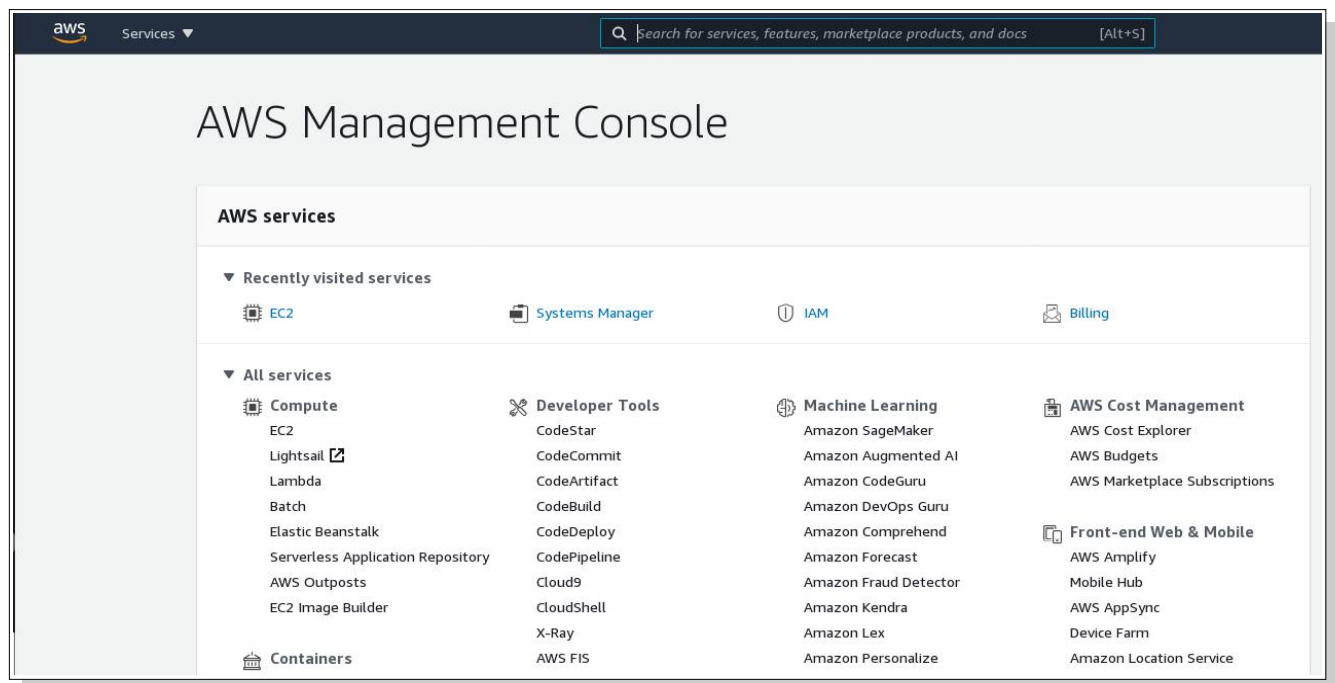
Installation Instructions

In the past, we used to publish a dedicated AWS Virtual Hub image on the AWS Marketplace. However, due to certification requirements from Amazon, it always took longer for a new Viprinet firmware version to get published.

To speed up firmware updates and to make things more flexible, we are now longer publishing those images. Instead we have created a way to use any “Amazon Linux 2 AMI” which after creating the Instance can be converted into a Viprinet Virtual Hub. Afterwards, this Virtual Hub will then receive Firmware updates in the same interval as any physical Viprinet Hub would.

In this document we are explaining what steps to take to create your own Virtual Hub instances on AWS.

1. Log in into your AWS account, locate *All services* group and click on *EC2*.

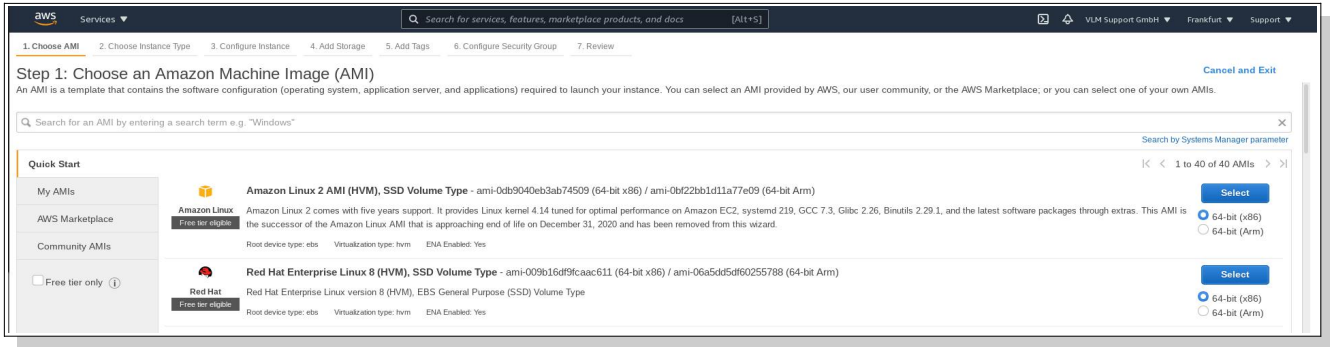


2. Click on button *Launch instance*, then select *Launch instance* option:

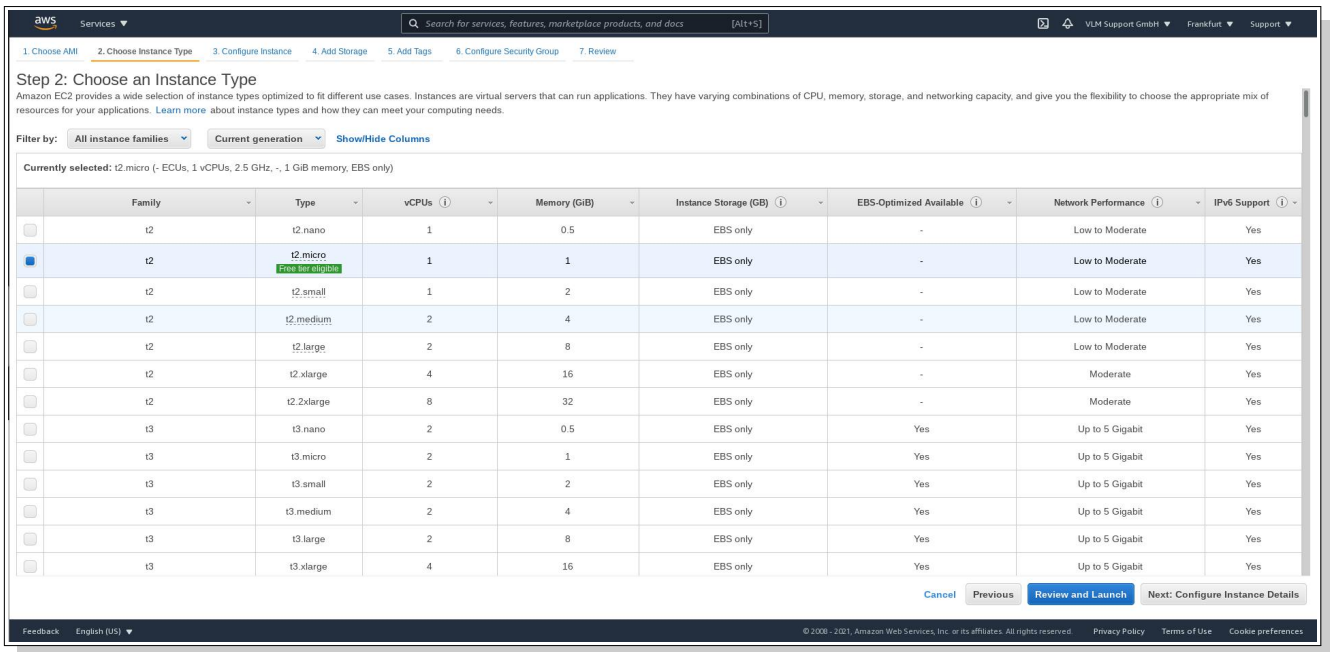
The screenshot shows the AWS Management Console interface for the EC2 Resources page. The left sidebar contains navigation options like 'New EC2 Experience', 'EC2 Dashboard', 'Events', 'Tags', 'Limits', 'Instances', 'Images', and 'Elastic Block Store'. The main content area is titled 'Resources' and lists EC2 resources in the Europe (Frankfurt) Region: Instances (running) 2, Dedicated Hosts 0, Elastic IPs, Instances 2, Key pairs 3, Load balancers, Placement groups 0, Security groups 8, Snapshots, and Volumes 2. Below this is a 'Launch instance' section with a description and a prominent orange 'Launch instance' button. To the right, the 'Service health' section shows the Region as Europe (Frankfurt) and Status as 'This service is'. A 'Zones' section is partially visible at the bottom.

This screenshot is similar to the first one, but the 'Launch instance' button in the 'Launch instance' section is now a dropdown menu. The dropdown menu is open, showing three options: 'Launch instance' (highlighted in orange), 'Launch instance', and 'Launch instance from template'. The rest of the page content, including the 'Resources' list and 'Service health' section, remains the same.

3. On *Amazon Machine Selection* screen, select *Amazon Linux 2 AMI* and confirm the *64-bit (x86)* option:



4. Choose your instance type and proceed to *Review and Launch*:



5. On *Review Instance Launch* screen, locate option *Edit security groups* and click on it:

aws Services [Search for services, features, marketplace products, and docs] [All+5] VLM Support GmbH Frankfurt Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

Improve your instances' security. Your security group, launch-wizard-4, is open to the world.
Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

AMI Details [Edit AMI](#)

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0db9040eb3ab74509
Free tier eligible
Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is a...
Root Device Type: ebs Visualization type: hvm

Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	-	1	1	EBS only	-	Low to Moderate

Security Groups [Edit security groups](#)

Security group name: launch-wizard-4
Description: launch-wizard-4 created 2021-04-14T13:05:45.895+02:00

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	0.0.0.0/0	

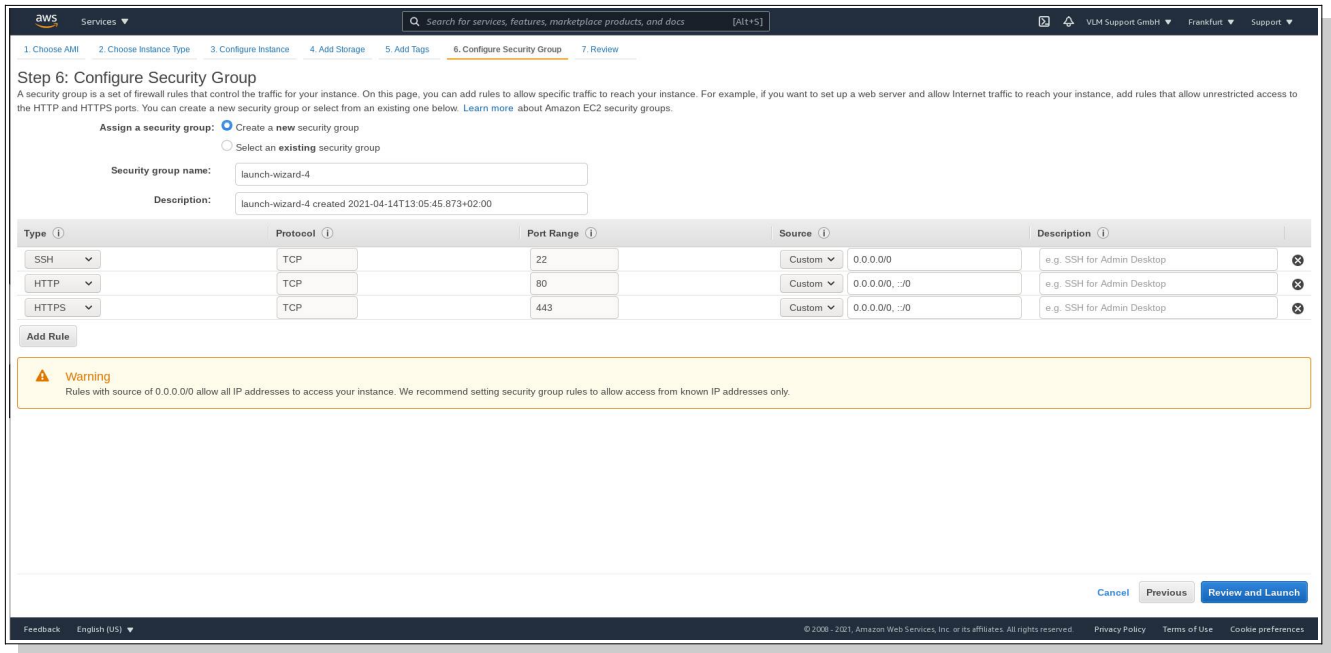
Instance Details [Edit instance details](#)

Storage [Edit storage](#)

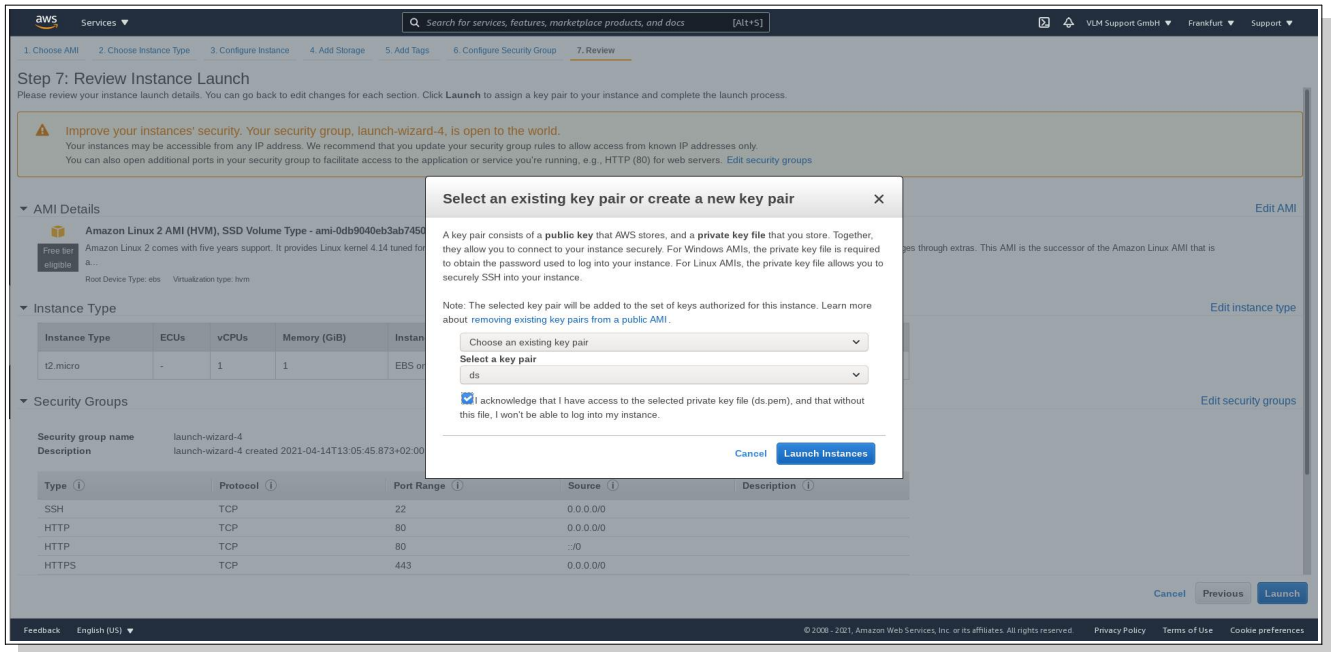
[Cancel](#) [Previous](#) [Launch](#)

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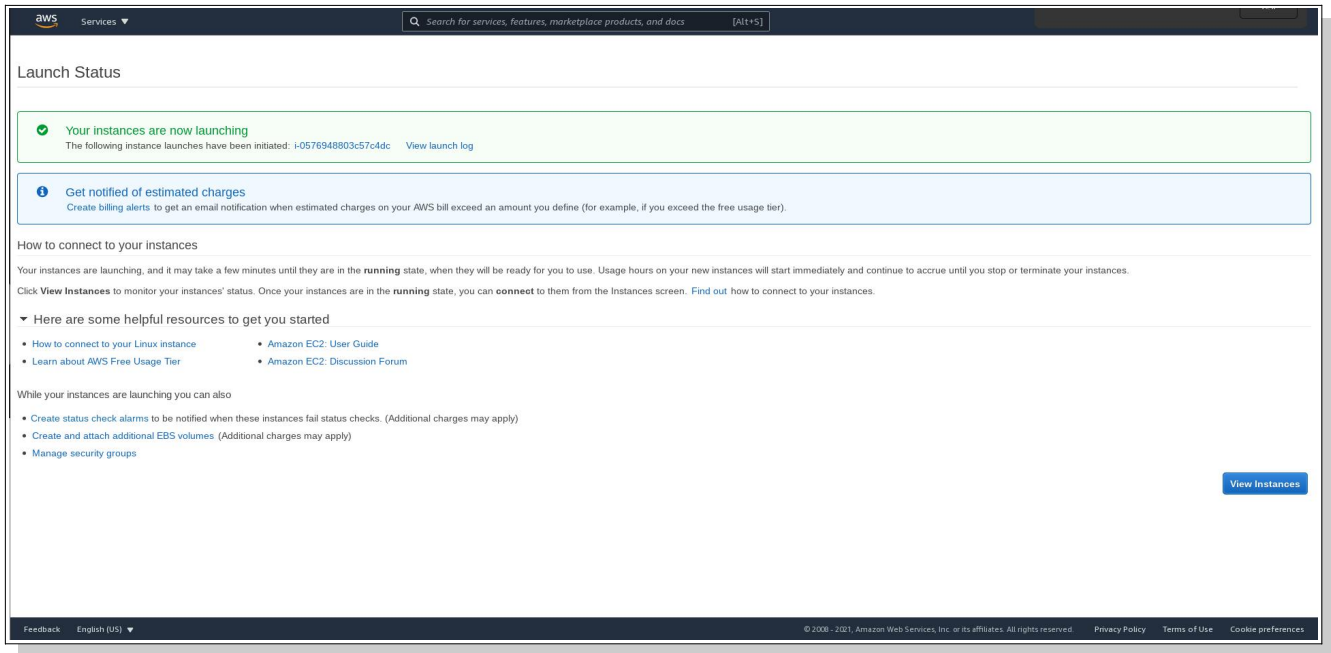
6. Add protocols *HTTP* and *HTTPS* into allowed services (SSH should come as default, otherwise add it too):



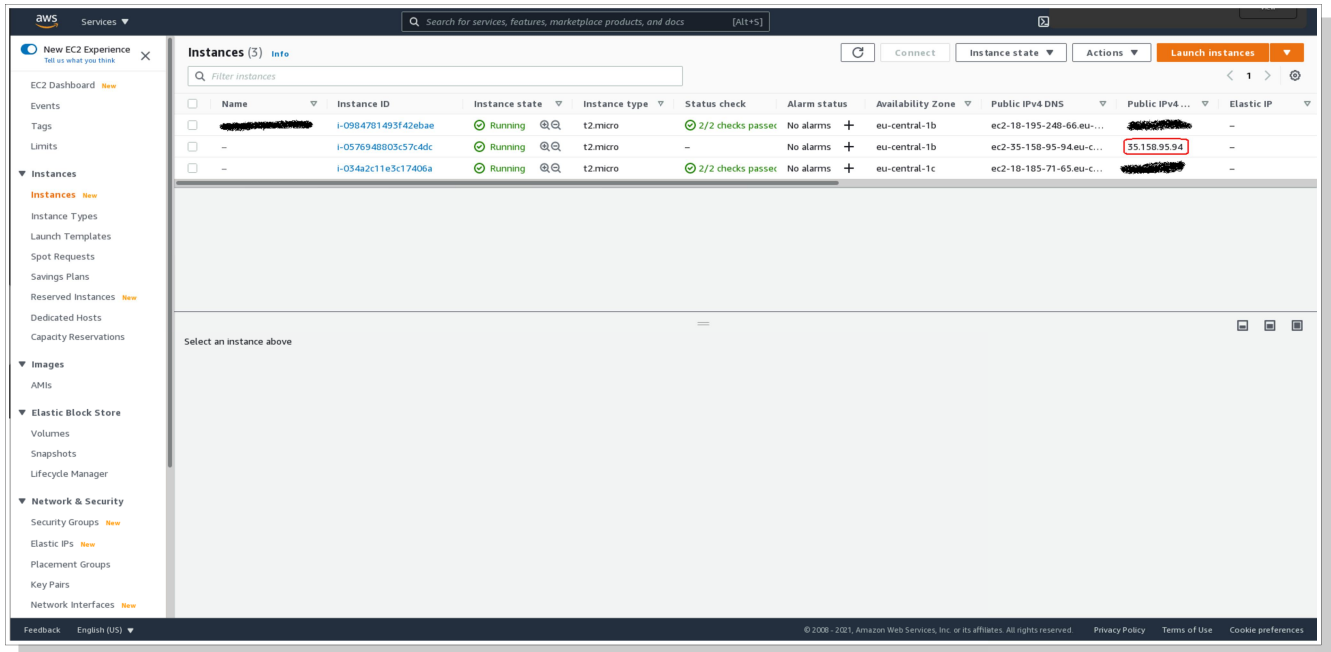
then click on *Review and Launch*, choose your *key pair* and click on *Launch Instances*:



7. You will be redirected to the following screen. Click on View Instances to go to your instance list:



8. Locate the IP address of recently created instance:



9. Using an SSH client, connect into your instance using *ec2-user* account:

```
vim@localhost:~$ ssh ec2-user@35.158.95.94
The authenticity of host '35.158.95.94 (35.158.95.94)' can't be established.
ECDSA key fingerprint is SHA256:/RNBEMFbUSD0+SGoap0M2ZdJ61dzRYbNC21FqaeHX0c.
Are you sure you want to continue connecting (yes/no/[fingerprint])? 
```

You will be asked if you accept SSH fingerprint, type *yes* then press *enter*.

Run the following command to add Viprinet Repository into your list:

```
$ sudo yum -y install https://aws.vipri.net/amzn2/viprinet-repo-latest.amzn2.x86_64.rpm
```

```
vim@localhost:~$ ssh ec2-user@35.158.95.94
The authenticity of host '35.158.95.94 (35.158.95.94)' can't be established.
ECDSA key fingerprint is SHA256:/RNBEMFbUSD0+SGoap0M2ZdJ61dzRYbNC21FqaeHX0c.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '35.158.95.94' (ECDSA) to the list of known hosts.
Last login: Wed Apr 14 11:13:11 2021 from host-195-088-062-013.rh.zone

 _ _ _ _ _
| | | | | Amazon Linux 2 AMI
|_|_|_|_|

https://aws.amazon.com/amazon-linux-2/
No packages needed for security 2 packages available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-49-78 ~]$ sudo yum install https://aws.vipri.net/amzn2/packages/viprinet-repo-20210223-01.amzn2.x86_64.rpm
Loaded plugins: extras_suggestions, langpacks, priorities, updateonly
viprinet-repo-20210223-01.amzn2.x86_64.rpm
Examining /var/tmp/yam-root-1dxcv/viprinet-repo-20210223-01.amzn2.x86_64.rpm: viprinet-repo-20210223-01.amzn2.x86_64
Marking /var/tmp/yam-root-1dxcv/viprinet-repo-20210223-01.amzn2.x86_64.rpm to be installed
Resolving Dependencies
=> Running transaction check
--> Package viprinet-repo.x86_64 0:20210223-01.amzn2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package                               Arch           Version              Repository           Size
-----
Installing:
viprinet-repo                          x86_64         20210223-01.amzn2   /viprinet-repo-20210223-01.amzn2.x86_64   206

Transaction Summary
-----
Install 1 Package

Total size: 206
Installed size: 206
Downloading packages:
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : viprinet-repo-20210223-01.amzn2.x86_64
Verifying : viprinet-repo-20210223-01.amzn2.x86_64

Installed:
viprinet-repo.x86_64 0:20210223-01.amzn2

Complete!
[ec2-user@ip-172-31-49-78 ~]$
```

Execute the following command to add Viprinet package:

```
sudo yum install -y viprinet
```

This command will also install needed dependencies:

```
Install 1 Package (+9 Dependent packages)
Total download size: 7.4 M
Installed size: 28 M
Downloading packages:
(1/10): autogen-libs-5.18-5.x86_0.2.x86_64.rpm | 67 kB | 00:00:00
(2/10): net-rmp-0.7.2-43.x86_0.1.x86_64.rpm | 320 kB | 00:00:00
(3/10): net-rmp-agent-libs-6.7.2-43.x86_0.1.x86_64.rpm | 201 kB | 00:00:00
(4/10): net-rmp-libs-4.7.2-43.x86_0.1.x86_64.rpm | 740 kB | 00:00:00
(5/10): ntp-4.2.6p5-23.x86_0.2.x86_64.rpm | 544 kB | 00:00:00
(6/10): ntpdate-4.2.6p5-23.x86_0.2.x86_64.rpm | 86 kB | 00:00:00
(7/10): perl-Beta-Dumper-2.145-3.x86_0.2.x86_64.rpm | 49 kB | 00:00:00
(8/10): quagga-0.99.22.4-5.x86_0.2.x86_64.rpm | 1.2 MB | 00:00:00
(9/10): rpm-4.12.0-50.x86_0.2.x86_64.rpm | 39 kB | 00:00:00
(10/10): viprinet-2021040950-03.x86_0.2.x86_64.rpm | 3.5 MB | 00:00:00

Total: 18 MB/s | 7.4 MB | 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : libret-rmp-libs-0.7.2-43.x86_0.1.x86_64 3/10
Installing : libret-rmp-agent-libs-6.7.2-43.x86_0.1.x86_64 3/10
Installing : autogen-libs-5.18-5.x86_0.2.x86_64 3/10
Installing : rpm-4.12.0-50.x86_0.2.x86_64 4/10
Installing : ntpdate-4.2.6p5-23.x86_0.2.x86_64 5/10
Installing : ntp-4.2.6p5-23.x86_0.2.x86_64 6/10
Installing : perl-Beta-Dumper-2.145-3.x86_0.2.x86_64 7/10
Installing : libret-rmp-libs-4.7.2-43.x86_0.1.x86_64 8/10
Installing : quagga-0.99.22.4-5.x86_0.2.x86_64 9/10
Installing : viprinet-2021040950-03.x86_0.2.x86_64 10/10
Created symlink from /etc/systemd/system/user.target.wants/viprinet.service to /etc/systemd/system/viprinet.service.
Verifying : autogen-libs-5.18-5.x86_0.2.x86_64 1/10
Verifying : viprinet-2021040950-03.x86_0.2.x86_64 2/10
Verifying : libret-rmp-libs-4.7.2-43.x86_0.1.x86_64 3/10
Verifying : libret-rmp-agent-libs-6.7.2-43.x86_0.1.x86_64 4/10
Verifying : libret-rmp-libs-0.7.2-43.x86_0.1.x86_64 5/10
Verifying : ntpdate-4.2.6p5-23.x86_0.2.x86_64 6/10
Verifying : ntp-4.2.6p5-23.x86_0.2.x86_64 7/10
Verifying : perl-Beta-Dumper-2.145-3.x86_0.2.x86_64 8/10
Verifying : autogen-libs-5.18-5.x86_0.2.x86_64 9/10
Verifying : rpm-4.12.0-50.x86_0.2.x86_64 10/10

Installed:
viprinet.x86_64 0:2021040950-03.x86_0.2

Dependency Installed:
autogen-libs.x86_64 0:5.18-5.x86_0.2
net-rmp.x86_64 0:0.7.2-43.x86_0.1
net-rmp-agent-libs.x86_64 0:6.7.2-43.x86_0.1
net-rmp-libs.x86_64 0:4.7.2-43.x86_0.1
ntp.x86_64 0:4.2.6p5-23.x86_0.2
ntpdate.x86_64 0:4.2.6p5-23.x86_0.2
perl-Beta-Dumper.x86_64 0:2.145-3.x86_0.2
quagga.x86_64 0:0.99.22.4-5.x86_0.2
rpm.x86_64 0:4.12.0-50.x86_0.2

Complete!
[root@server ~]#
```

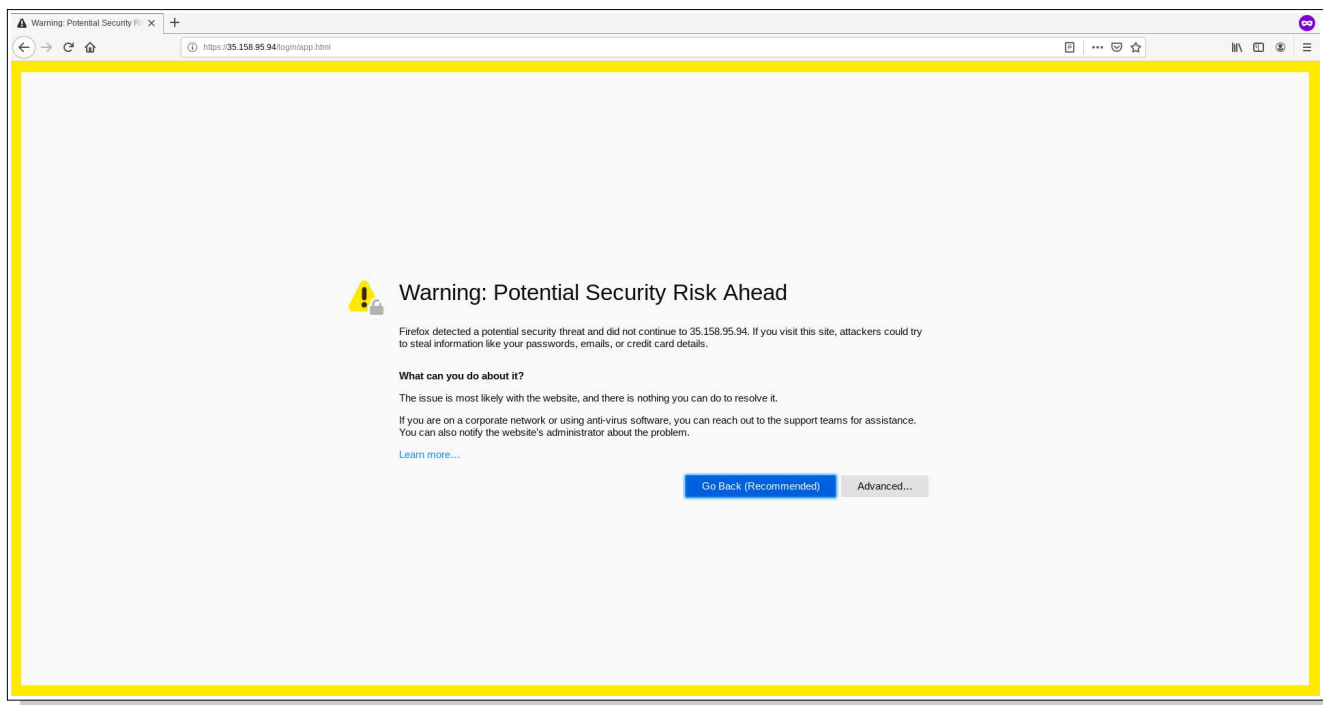
10. Using your browser access the following address:

```
http://<ip-address-of-your-instance>/
```

then you will be asked if you want to proceed using *HTTPS* (secure protocol), confirm by clicking *Yes*:



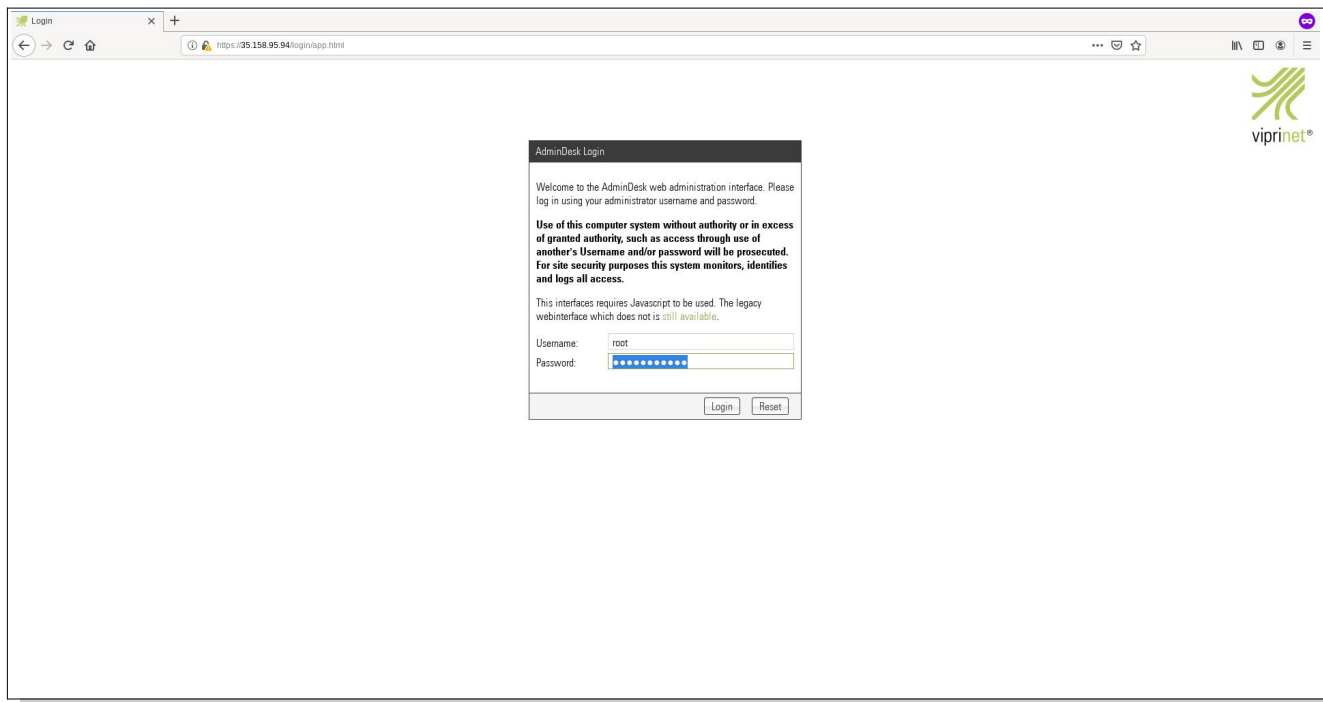
A self signed SSL certificated was generated, due to this you will receive a notification about a Potential Security Risk Ahead. Click on Advanced the confirm access to site.



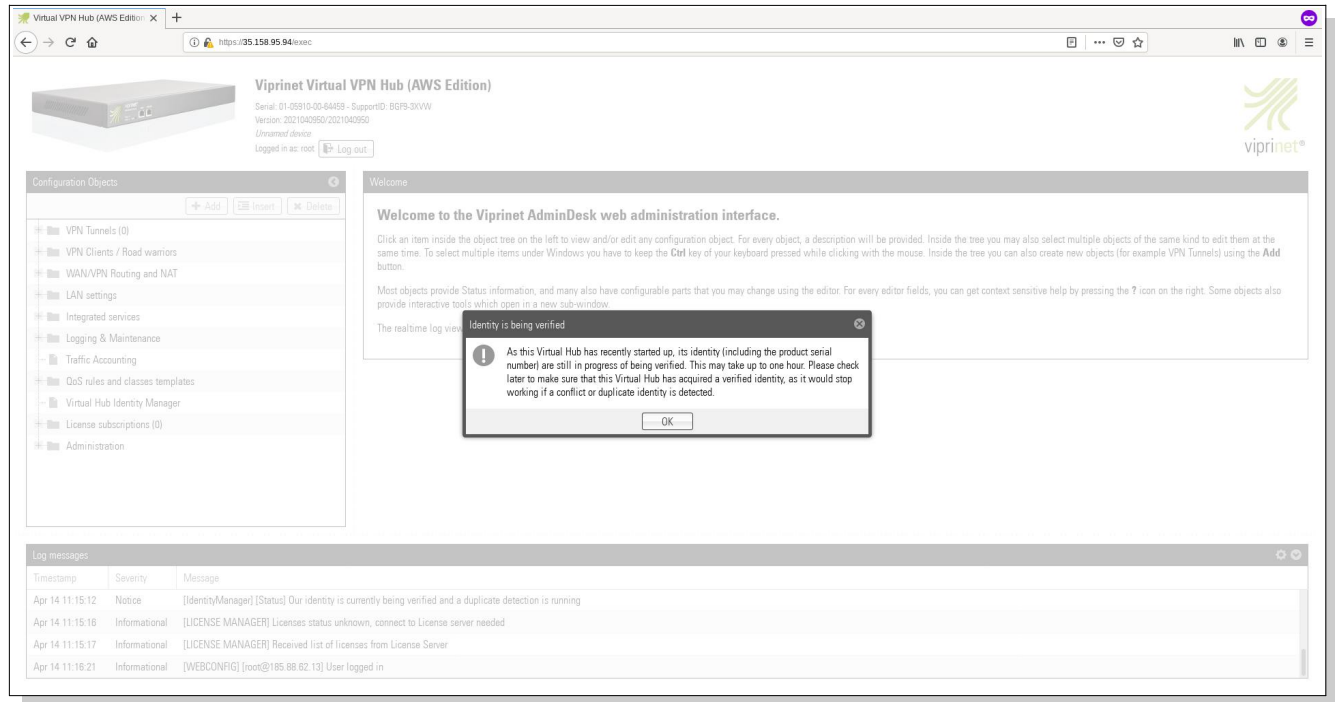
Log in using default credential:

Username: root

Password: viprinet



You should get redirected to the Vprinet Administration Web Interface:



**Remember that your web interface is public to the Internet.
So change the root password now!**

That's all. Congratulations for setting up your Vprinet Virtual Hub on AWS.