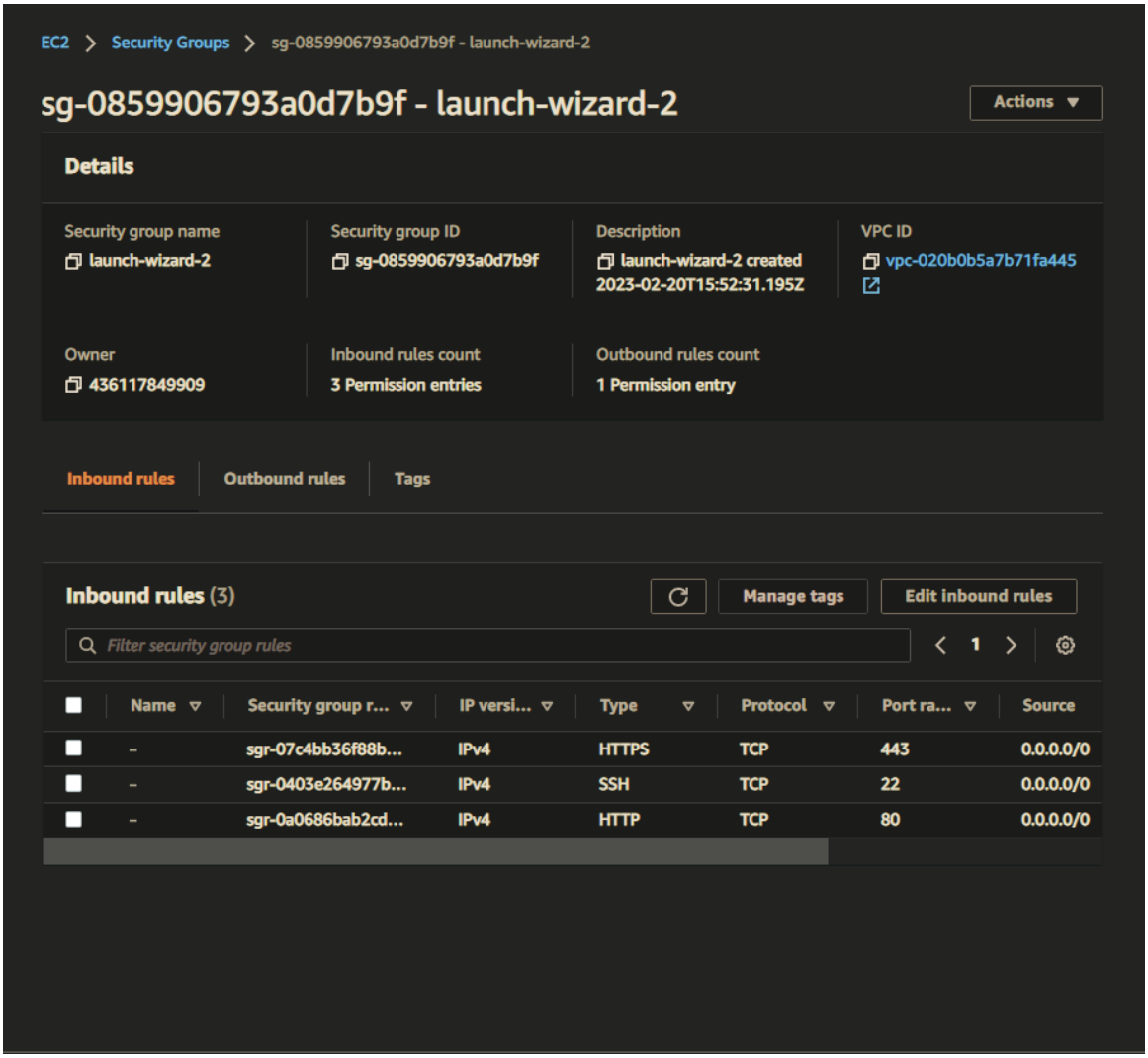
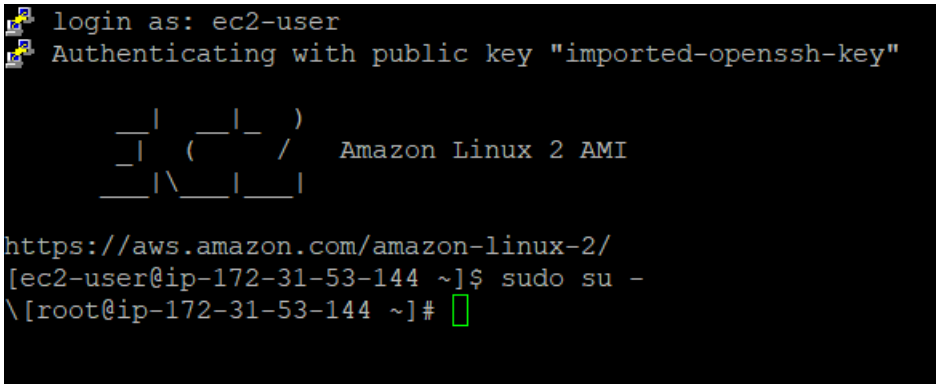
HOST A WEBSITE ON NGINX LAB

- Create Public Linux Ec2 Instance
- Edit security Group inbound rules and add HTTP and HTTPS traffic



- open it using Putty
- Switch to root user using the command “sudo su -”



Follow the below commands to Install the Nginx in the Instance using Amazon Linux

- “sudo amazon-linux-extras list | grep epel ” it will check whether the epel repo is available ,The below output in the image depicts that you should install the epel before installing Nginx.

```
[root@ip-172-31-53-144 ~]# sudo amazon-linux-extras list | grep epel
 24  epel                     available    [ =7.11  =stable ]
```

- sudo amazon-linux-extras enable epel this command will enable epel
- now you should be able to install the EPEL repo using the following command to install the epel repo
- “sudo yum install epel-release” after successful download you will see the output shown in the image below.

```
[root@ip-172-31-53-144 ~]# sudo yum install epel-release
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                               | 3.7 kB     00:00
amzn2extra-docker                                        | 3.0 kB     00:00
amzn2extra-epel                                          | 3.0 kB     00:00
amzn2extra-kernel-5.10                                   | 3.0 kB     00:00
(1/2): amzn2extra-epel/2/x86_64/updateinfo                 |   76 B   00:00
(2/2): amzn2extra-epel/2/x86_64/primary_db                 | 1.8 kB   00:00
Resolving Dependencies
--> Running transaction check
---> Package epel-release.noarch 0:7-11 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

================================================================================
 Package             Arch          Version      Repository               Size
================================================================================
Installing:
 epel-release        noarch        7-11         amzn2extra-epel          15 k

Transaction Summary
================================================================================
Install  1 Package

Total download size: 15 k
Installed size: 24 k
Is this ok [y/d/N]: y
Downloading packages:
epel-release-7-11.noarch.rpm                             |  15 kB   00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : epel-release-7-11.noarch                                   1/1
  Verifying  : epel-release-7-11.noarch                                   1/1

Installed:
  epel-release.noarch 0:7-11

Complete!
```

- Now install Nginx using the command “sudo yum install nginx”
- You can check the version of your nginx using “nginx-v” command

Host Website on Nginx

- Use the following commands
- “sudo systemctl start nginx” (to start the nginx)
- “sudo systemctl enable nginx” (to enable nginx)
- “sudo systemctl is-enabled nginx” (to check the status whether enabled)

```
[root@ip-172-31-53-144 ~]# sudo systemctl start nginx
[root@ip-172-31-53-144 ~]# sudo systemctl enable nginx
Created symlink from /etc/systemd/system/multi-user.target.wants/nginx.service to /usr/lib/sy
stemd/system/nginx.service.
[root@ip-172-31-53-144 ~]# sudo systemctl is-enabled nginx
enabled
```

- check whether your test page of website is available by putting your instance public IP in the browser.

Thank you for using Amazon Linux 2.

Now that you have it installed, find announcements and discussion in the AWS Discussion Forums. Also try AWS documentation.

- Now Go to the html folder in nginx repository using “cd /usr/share/nginx/html” you will see you are now into html repository

```
[root@ip-172-31-53-144 ~]# cd /usr/share/nginx/html
[root@ip-172-31-53-144 html]#
```

- Now edit the index.html file using “vi”.

```
[root@ip-172-31-53-144 html]# vi index.html
[root@ip-172-31-53-144 html]#
```

- Edit the file like in the image below

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
<title>Welcome to Amazon Linux 2</title>
<style rel="stylesheet" type="text/css">
html { background-color: white; font-family: "DejaVu Sans", "Liberation Sans", sans-serif; ma
rgin: 10% 20%; }
body { margin:0; padding:0; background: white; }
a { color: #007eb9; }
</style>
</head>

<body>

<p>Hosted Website on Nginx<p>

<p>Welcome to the Website.<p>

</body>
</html>
~
~
~
~
~
~
```

- Reload the browser with your public IP searched on it you will see that your website is hosted on Nginx with changes made in the html file.