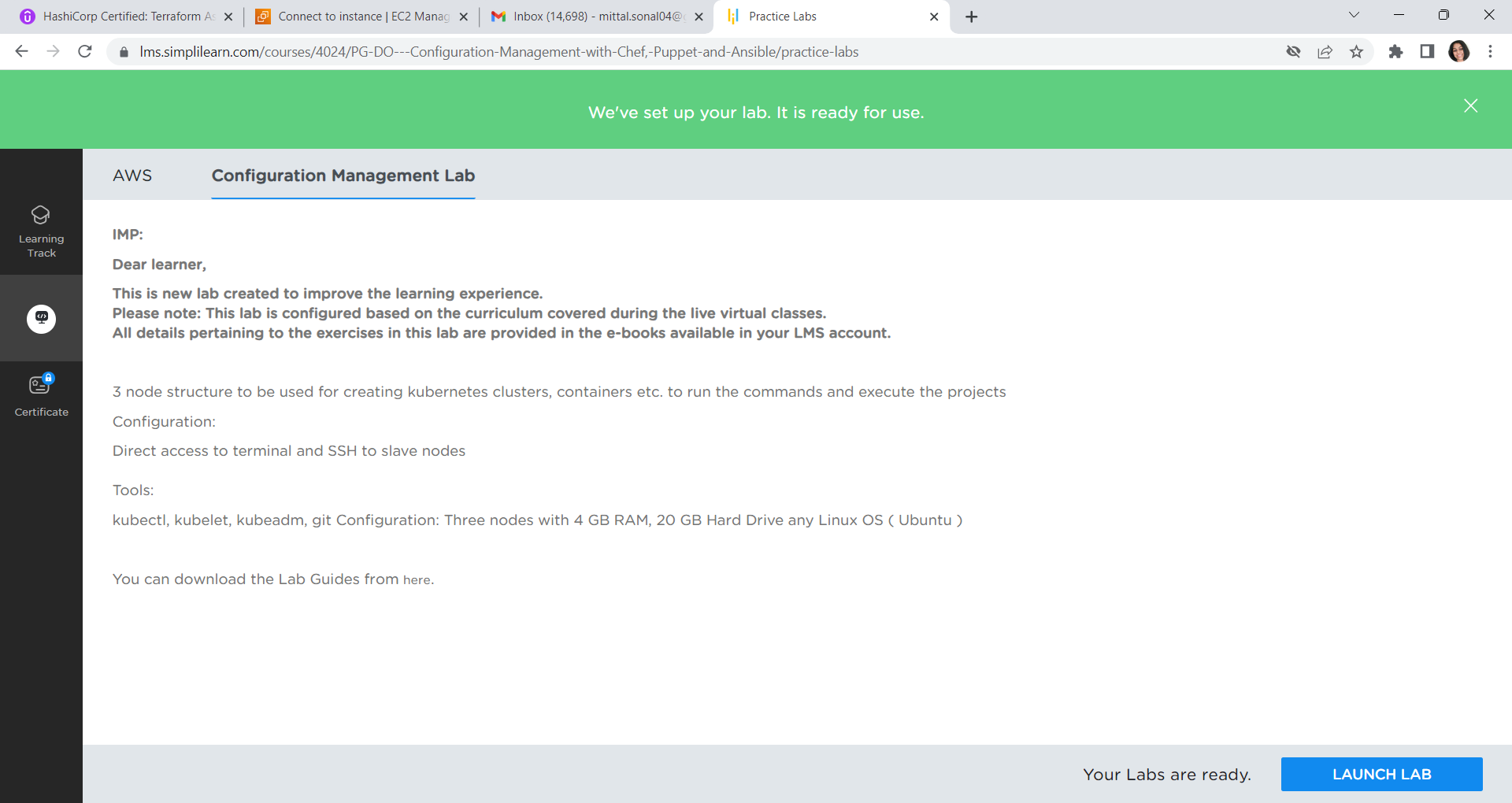
Link to GithUB repo:

<https://github.com/Sonal0409/CalTech-CMAT-June-batch.git>

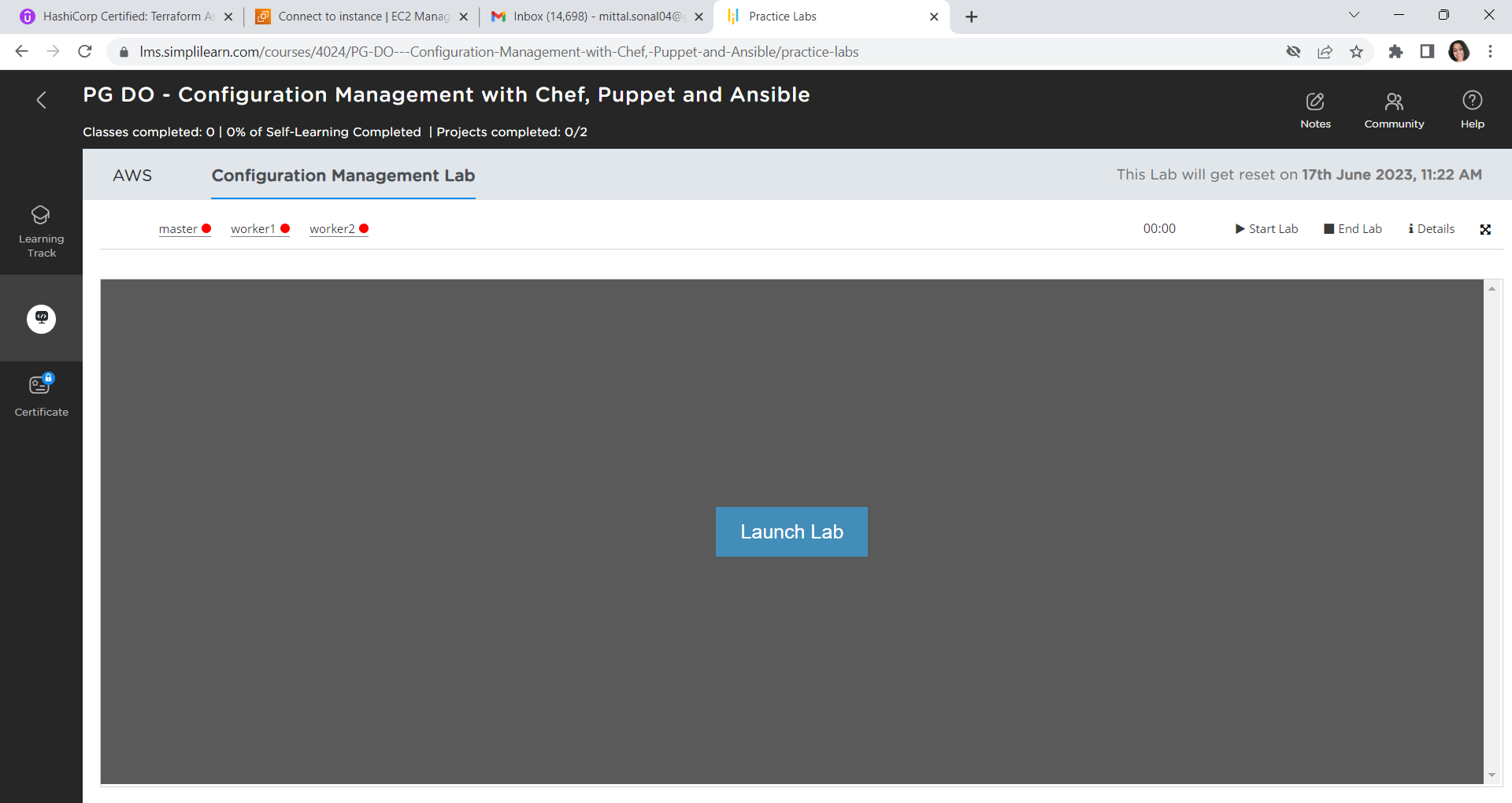
Day 1:

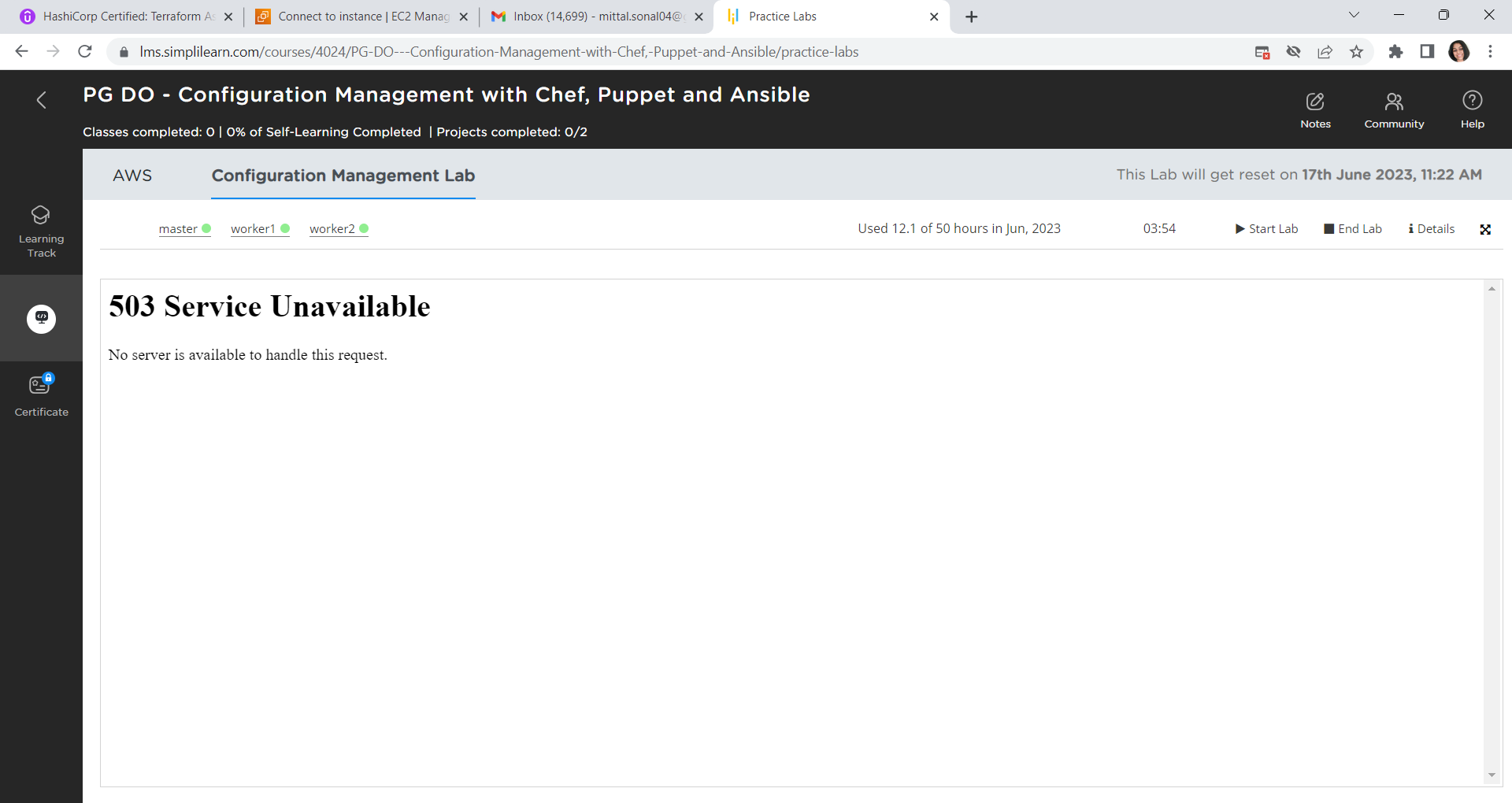
Set up Ansible Controller Machine and Worker 1 and Worker2

Connect to Configuration management Lab by clicking on launch lab button

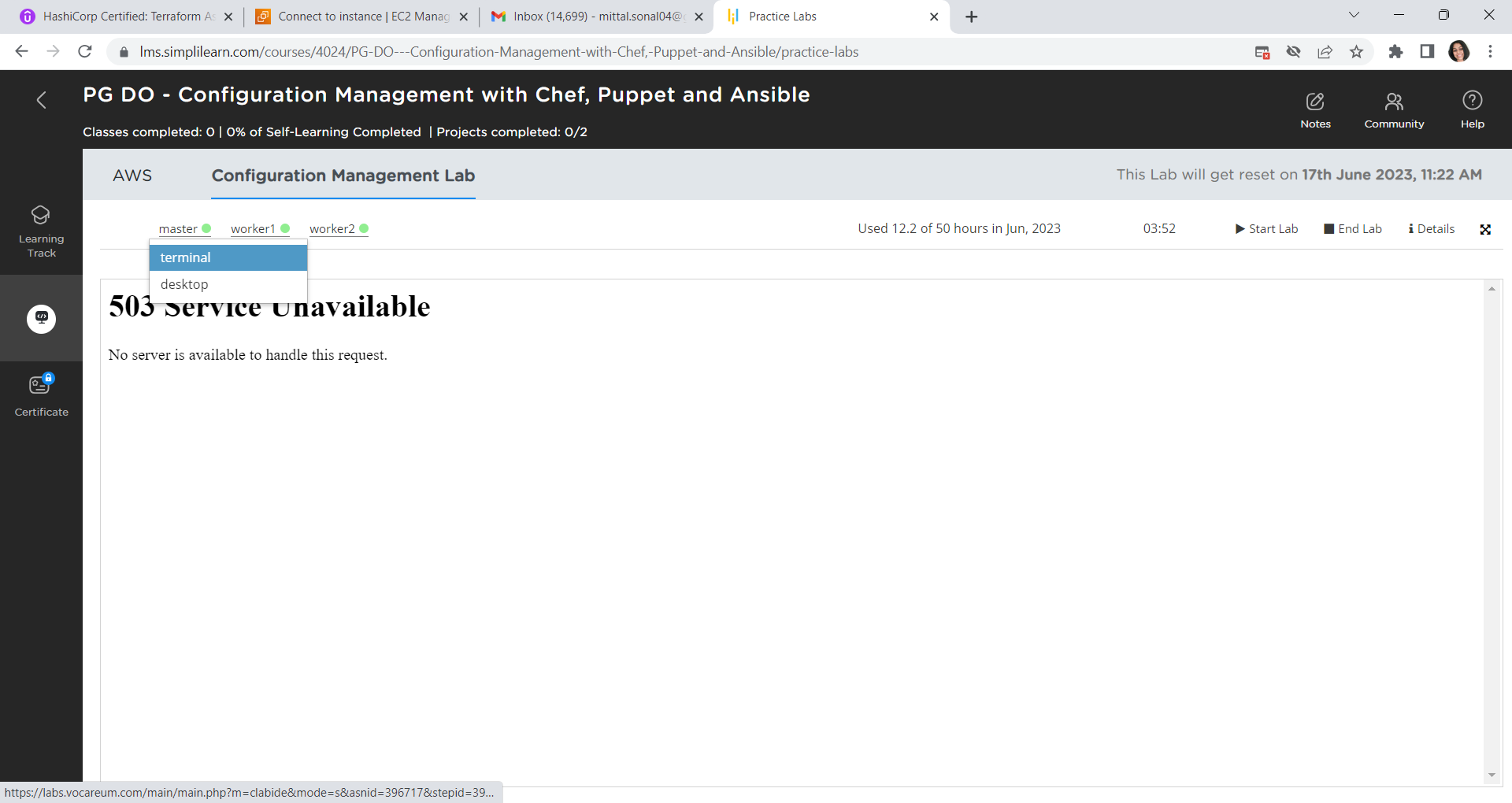


Click on Start Lab button on right side to start master and worker node.





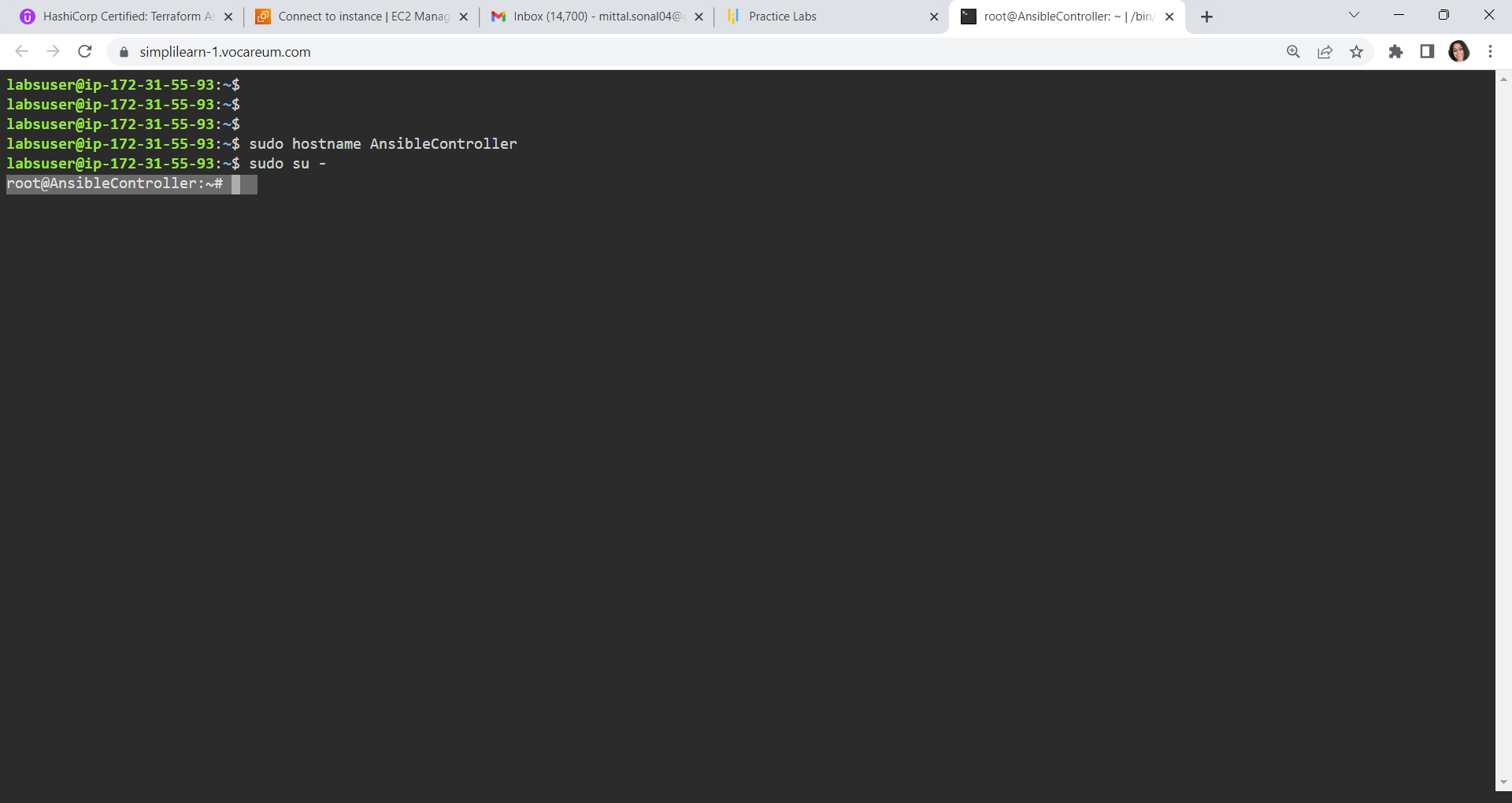
Click on master node and Click on Terminal



**master node to Ansible Controller for easier identification**

On the terminal execute below command:

# sudo su –



OPTIONAL: If you want to change hostname

# hostname AnsibleController

# sudo su -

Let’s us Install Ansible on this Machine: **Execute on master Node**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

# ansible --version

We don't have ansible on the master node.

Let's install it:

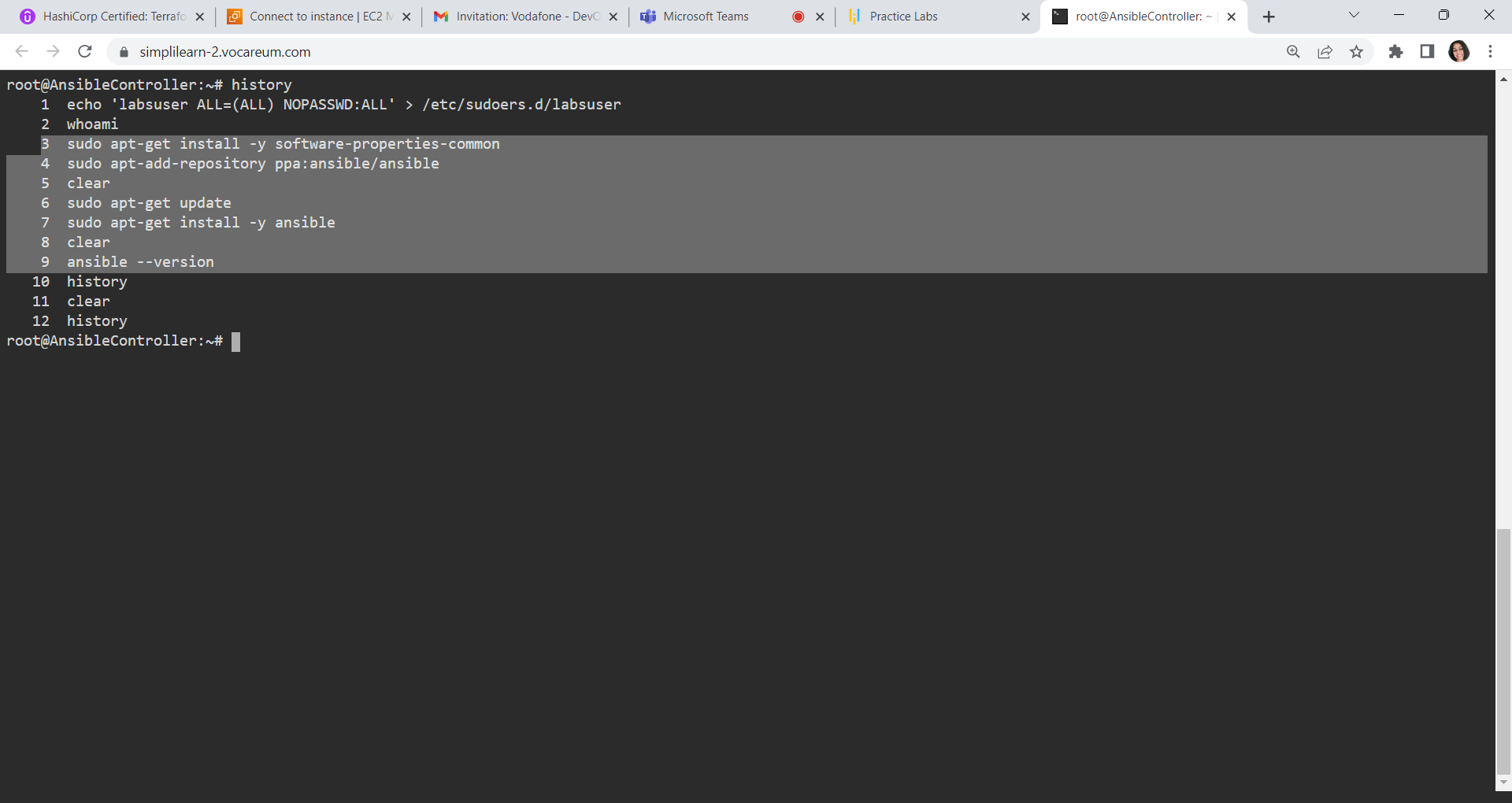
Setup Ansible:

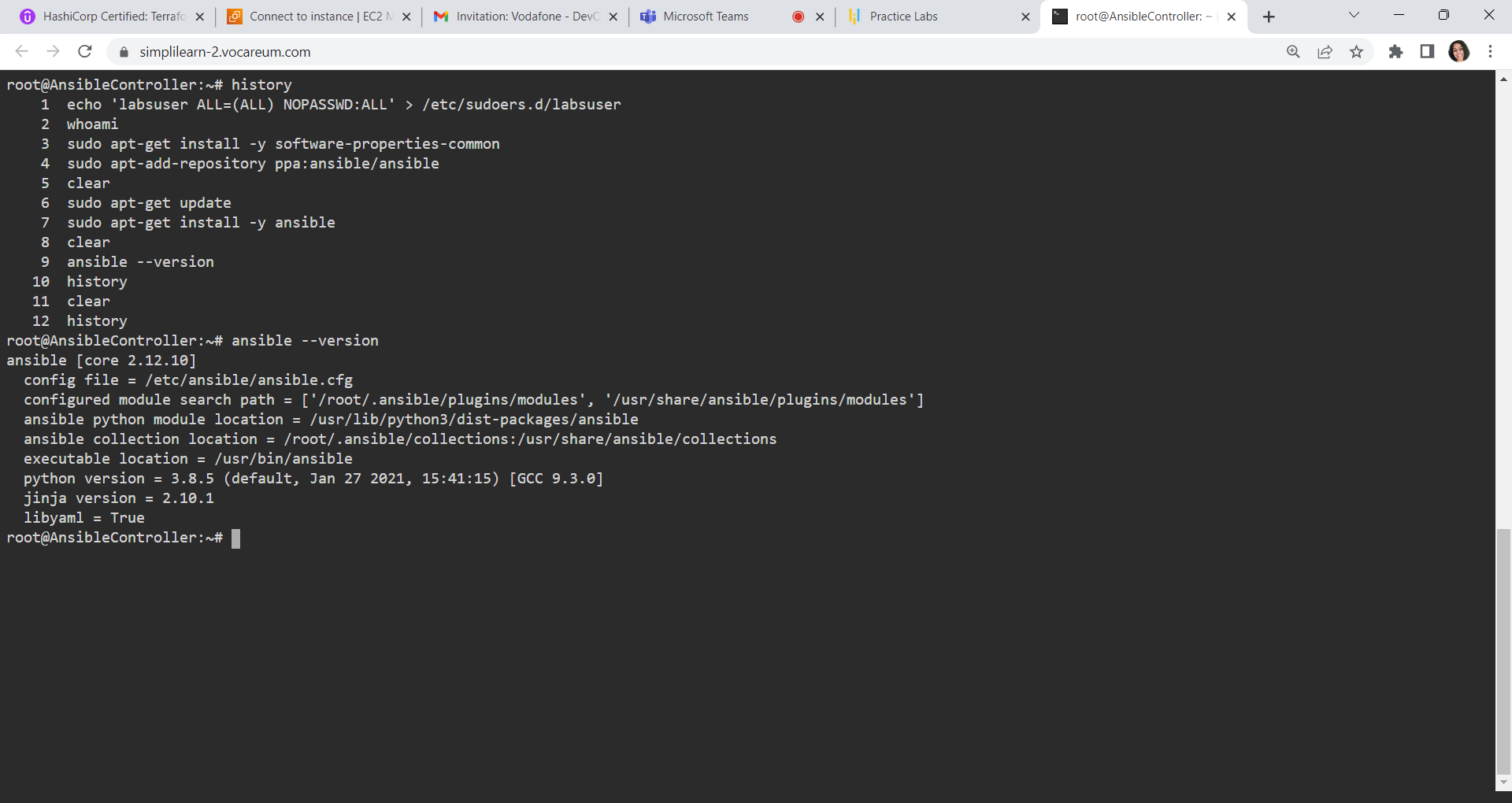
# sudo apt-get install -y software-properties-common

# sudo apt-add-repository ppa:ansible/ansible

# sudo apt-get update

# sudo apt-get install -y ansible





Ansible Installation is complete now on the Master node.

**OPEN SECURE SHELL CONNECTION – SSH Connection setup**

**Step 1: Execute on Master terminal**

===============================================

Create a new user on the terminal:

# **adduser ansiuser**

Enter New password : **ansiuser**

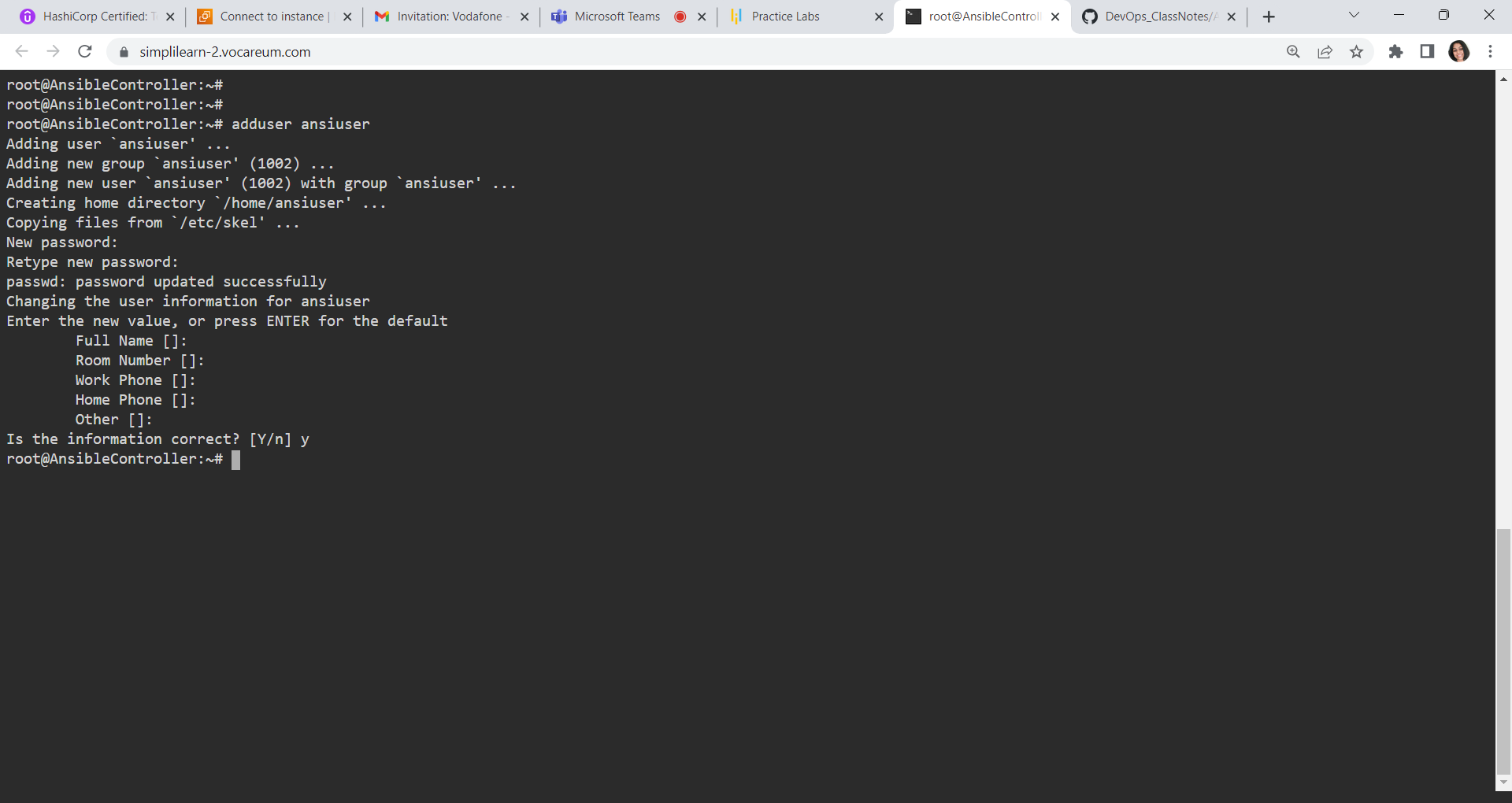
Retype new Password: **ansiuser**

Don’t enter any value for fullname, room number, workphone, homephone other

Just keep pressing enter key.

And give Y for

Is the information correct ? [Y/n] : y



User will now be created.

**Step 2:**

Add ansiuser in sudoers files and give all permission

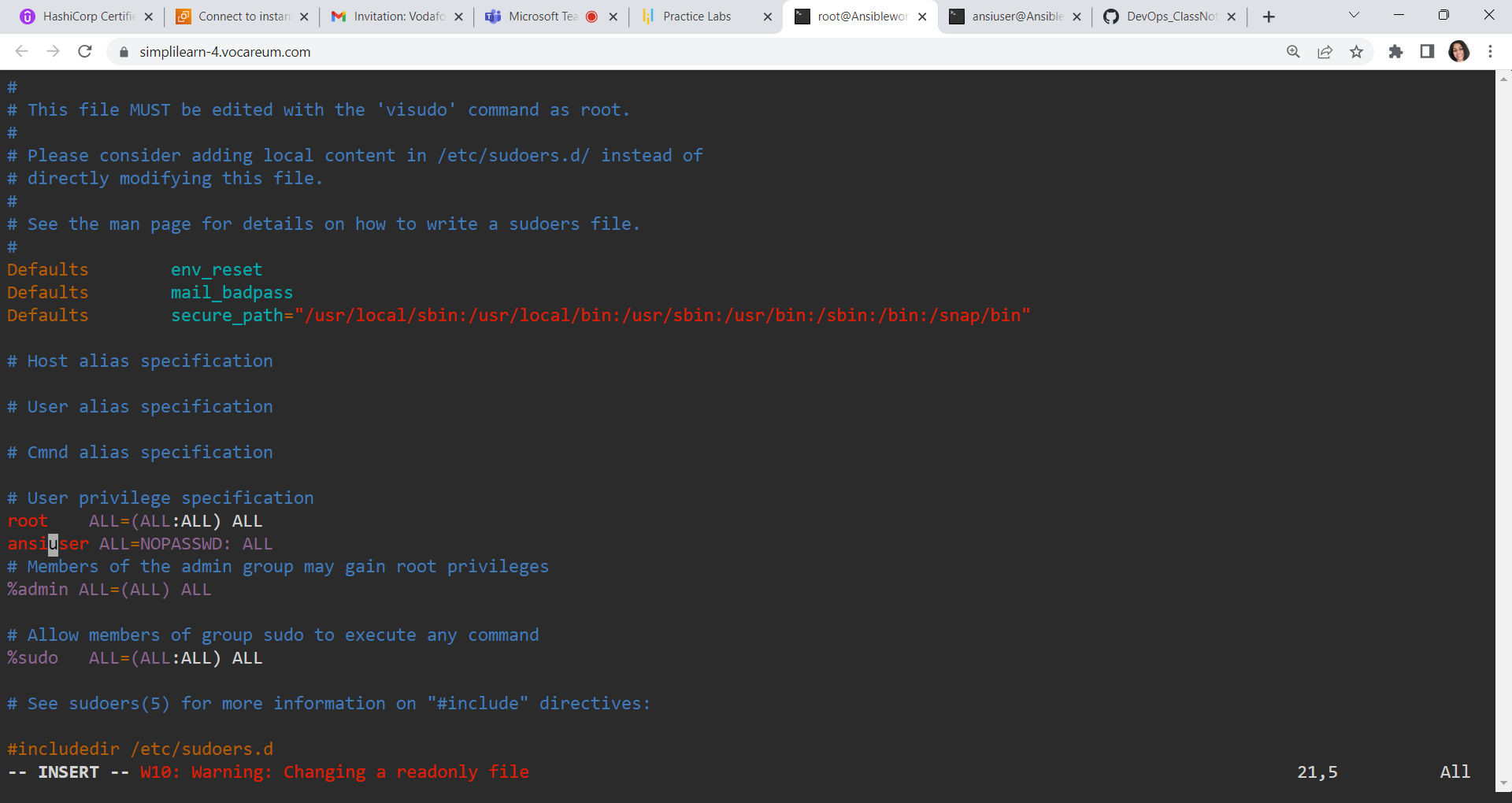
# **vim /etc/sudoers**

Press i

Scroll down until your find : # User privilege specification

Now enter below line under 🡺 root ALL=(ALL:ALL) ALL

**ansiuser ALL=NOPASSWD: ALL**

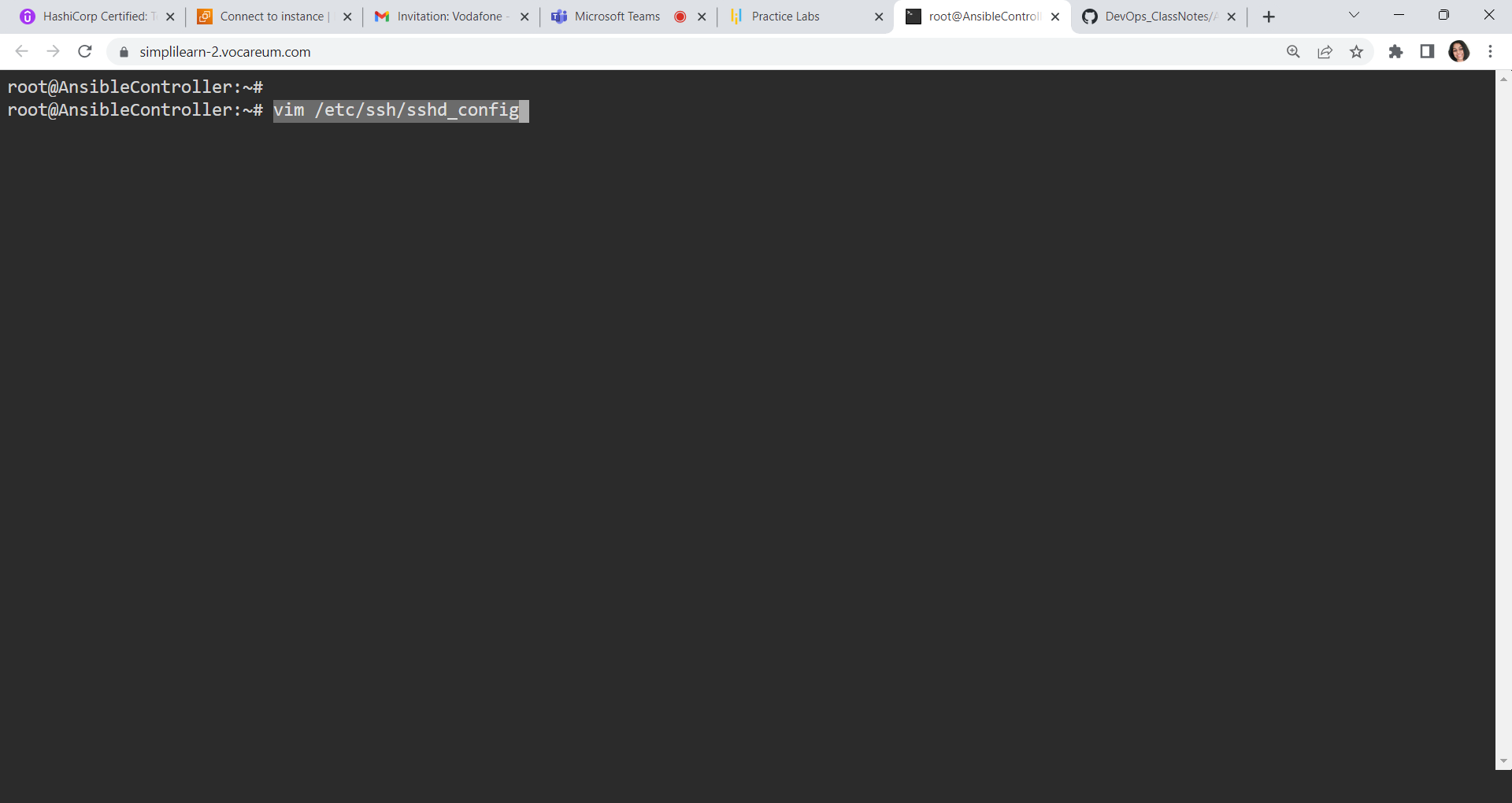


Save the file. (:wq!)

**Step 3:**

Open the below file by executing below command:

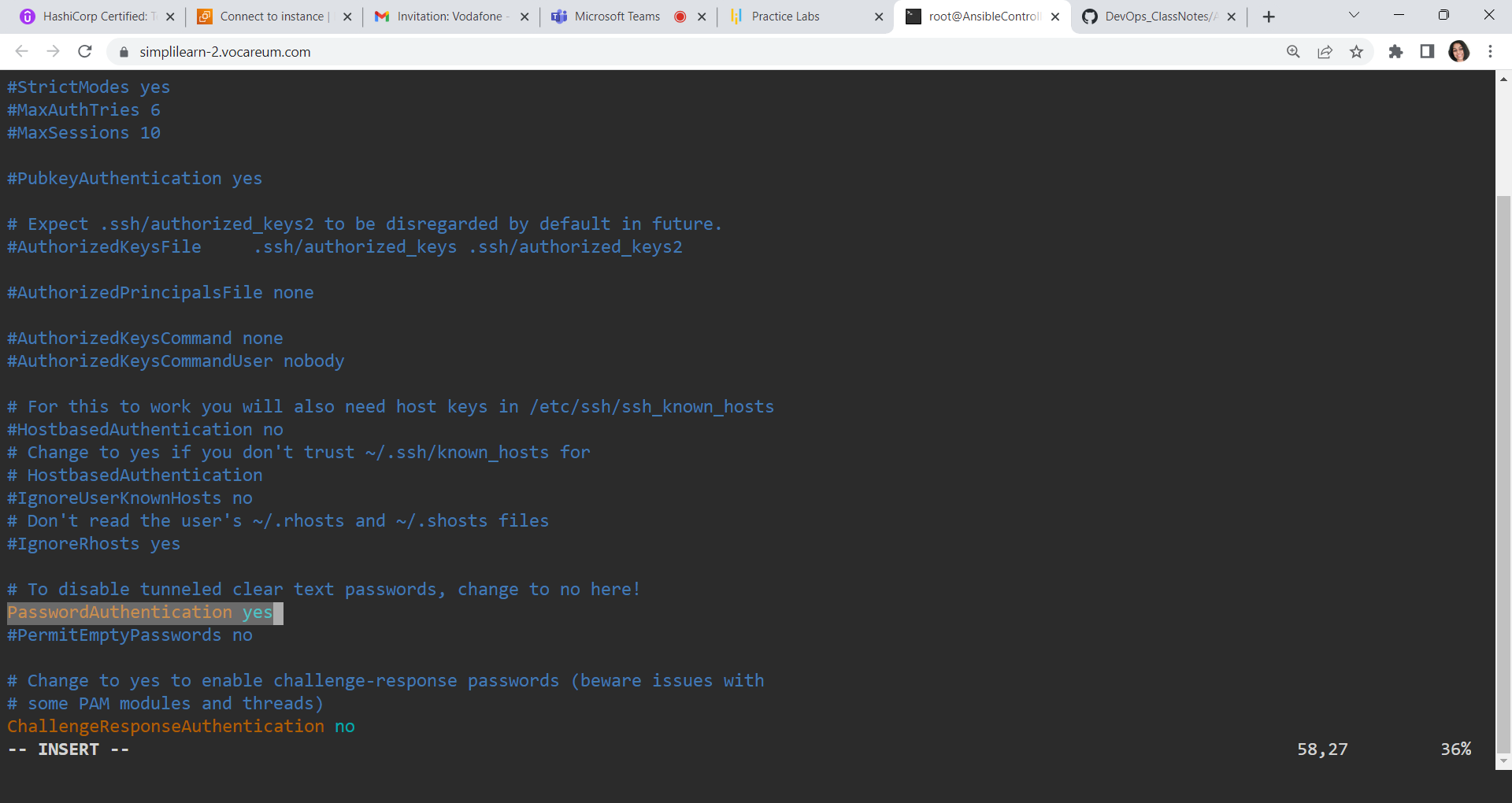
# **vim /etc/ssh/sshd\_config**



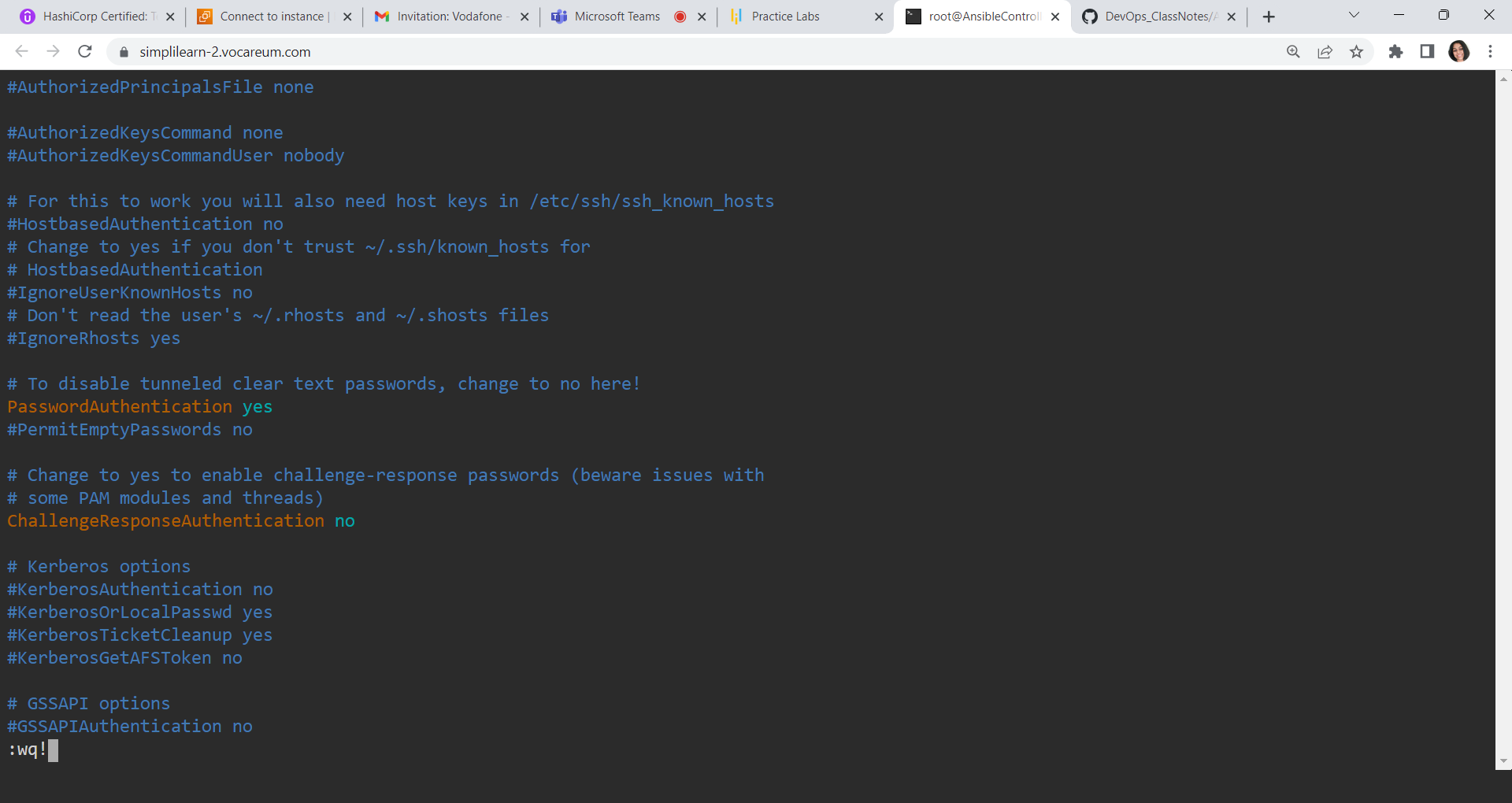
Press i

Scroll down until you find PasswordAuthentication no

* Change value of PasswordAuthentication to yes



Save the file by pressing ESC key and then enter :wq! 🡺 press enter key



Step 4:

Execute below command :

# systemctl restart sshd

**Repeat these steps (1 to 4) on Worker 1 and worker 2**

Step 1:

Create a new user on the terminal:

# adduser ansiuser

Enter New password : **ansiuser**

Retype new Password: **ansiuser**

Don’t enter any value for fullname, room number, workphone, homephone other

Just keep pressing enter key.

And give Y for

Is the information correct ? [Y/n] : y

Step 2:

Open the below file by executing below command:

# **vim /etc/ssh/sshd\_config**

Press i

Scroll down until you find PasswordAuthentication no

* Change value of PasswordAuthentication to yes

Save the file. ( press ESC key and give :wq! ⇒ press enter key )

Step 3:

Add ansiuser in sudoers files and give all permission

# vim /etc/sudoers

Press i

Scroll down until your find : # User privilege specification

Now enter below line under 🡺 root ALL=(ALL:ALL) ALL

**ansiuser ALL=NOPASSWD: ALL**

Step 4:

# systemctl restart sshd

**Generate SSH key on Master machine and copy SSH key on worker machine**

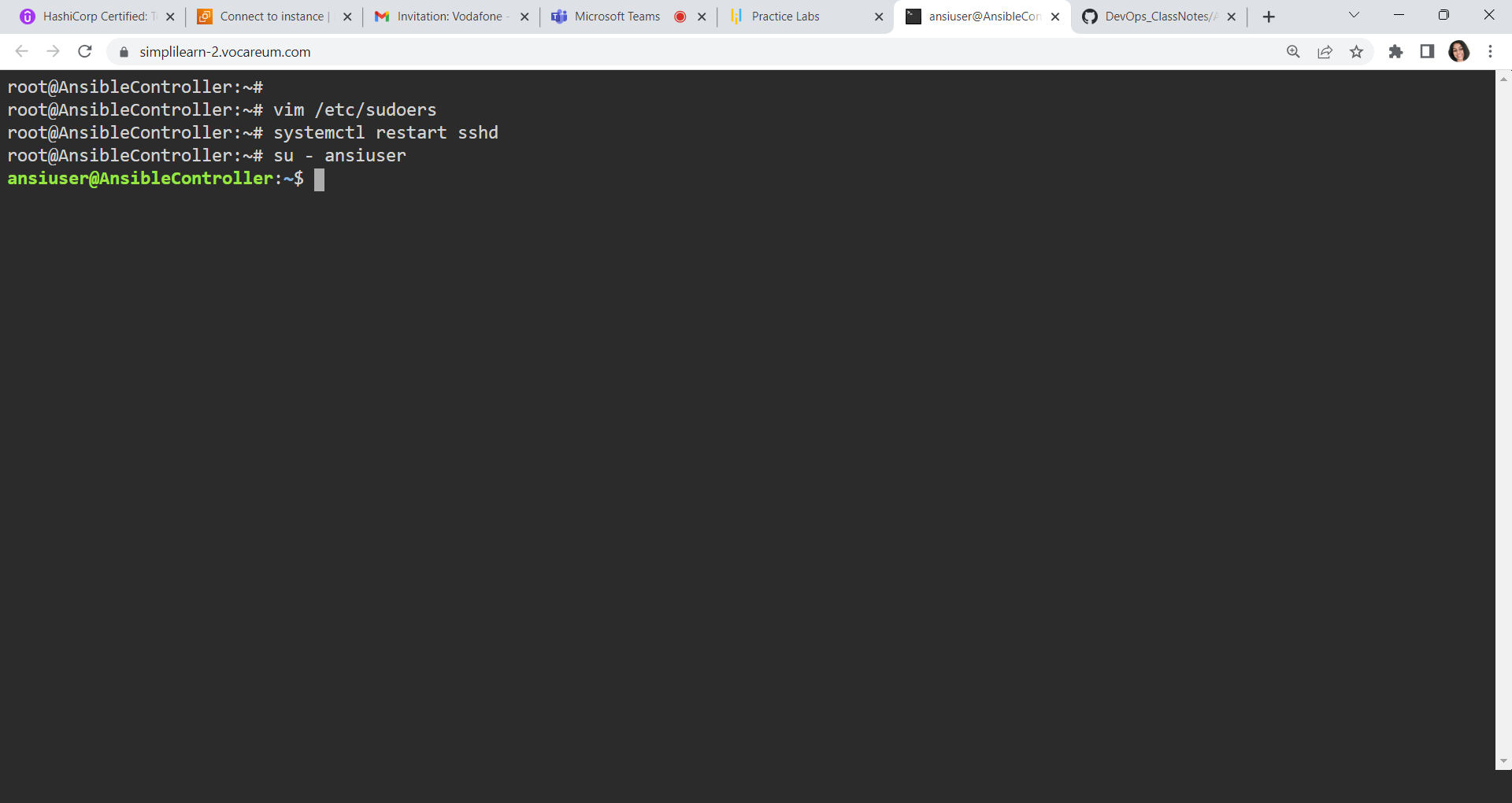
**All These Steps will be executed on Master Machine only**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Step 1:

Change user from root to ansiuser

**# su - ansiuser**



Step 2:

Generate ssh key on Master node for ansiuser

Execute below command:

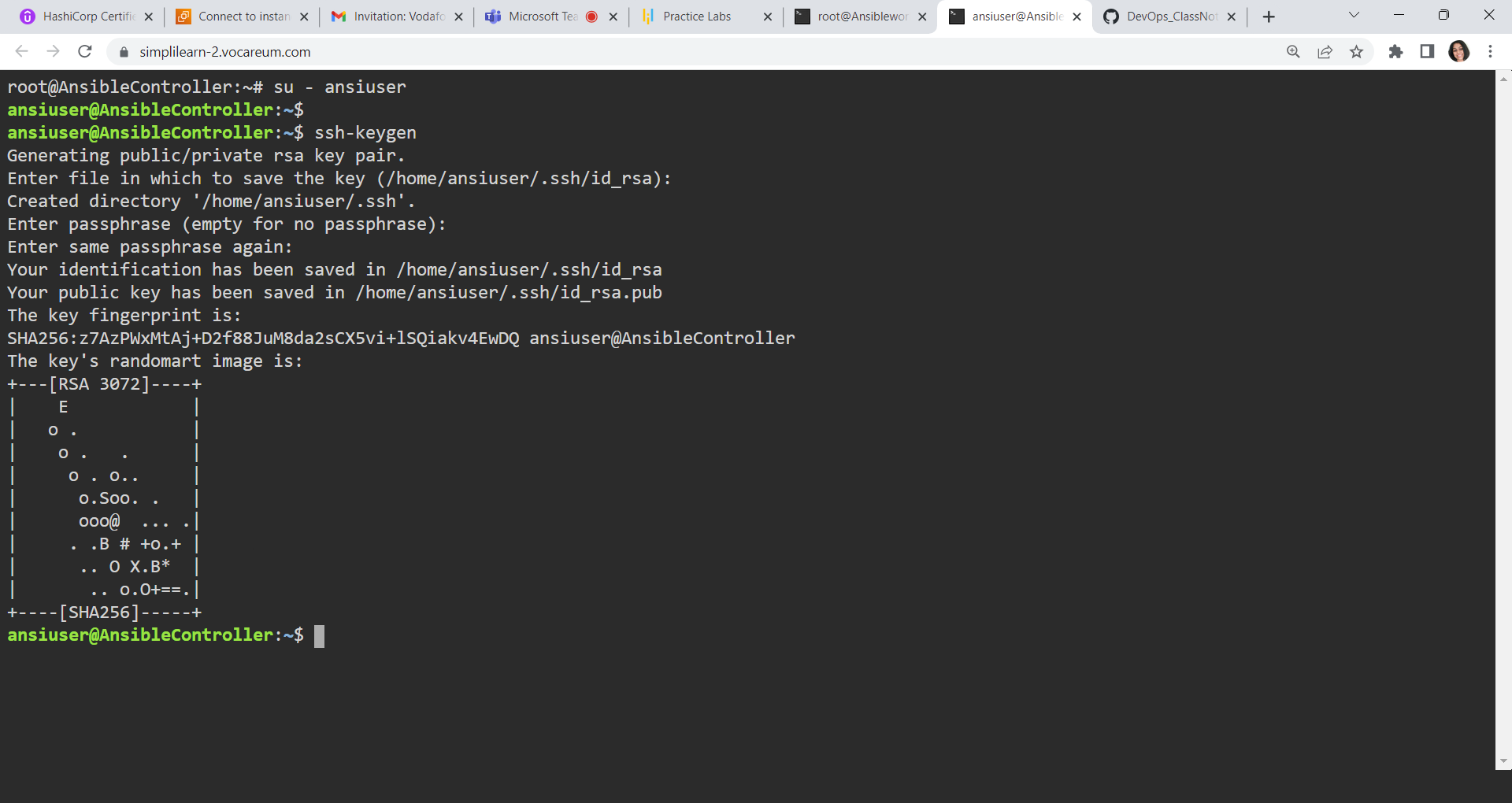
**# ssh-keygen**

press enter

press enter

press enter

ssh key will be generated



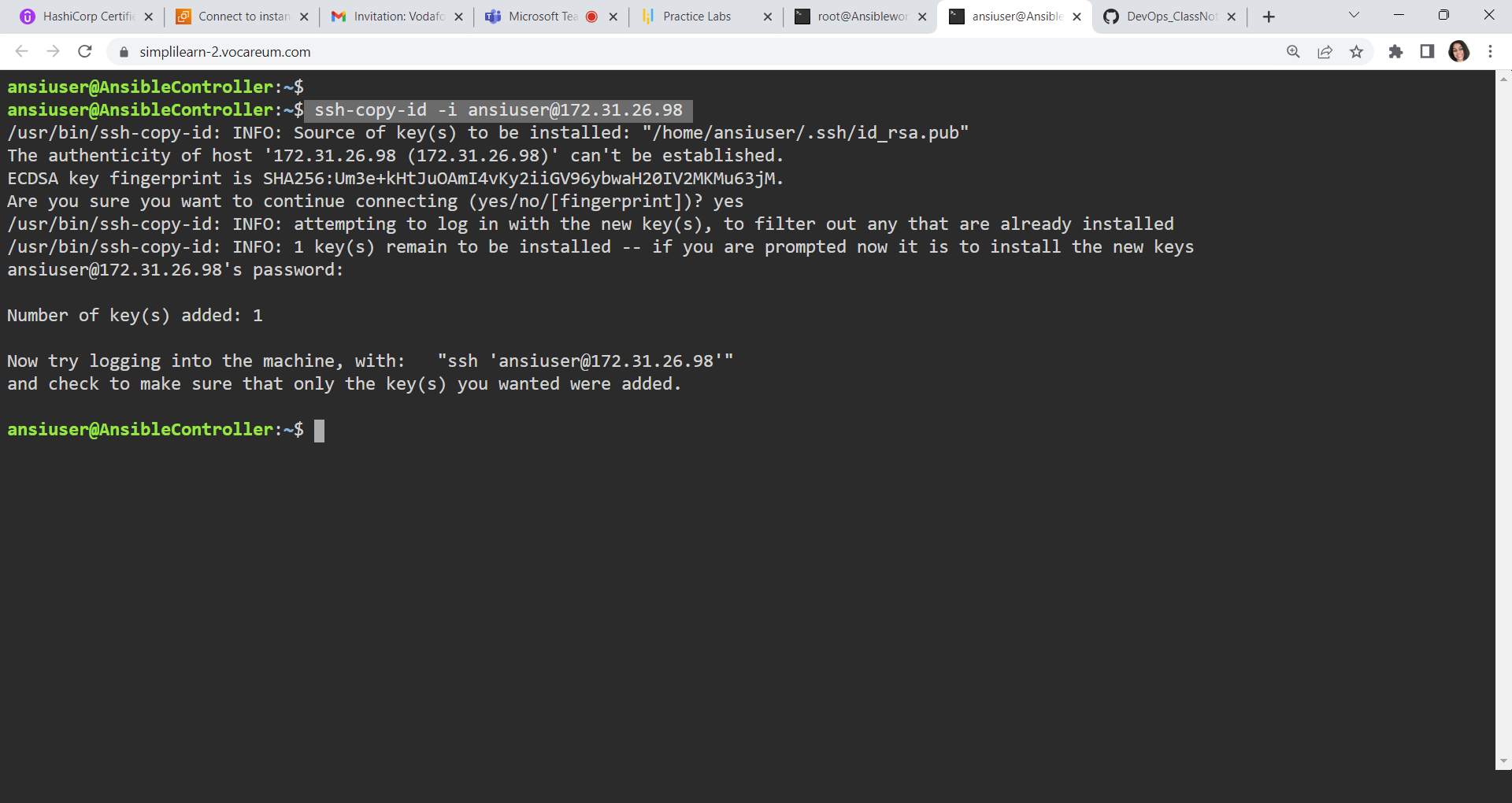
**Now lets copy the ssh key of master machine to Worker machine1** and worker machine 2

Execute the below command on master machine.

Syntax:

ssh-copy-id -i ansiuser@privateipWorker1

#  **ssh-copy-id -i ansiuser@172.31.726.98**



Repeat the same command to copy ssh key on Worker2 also.