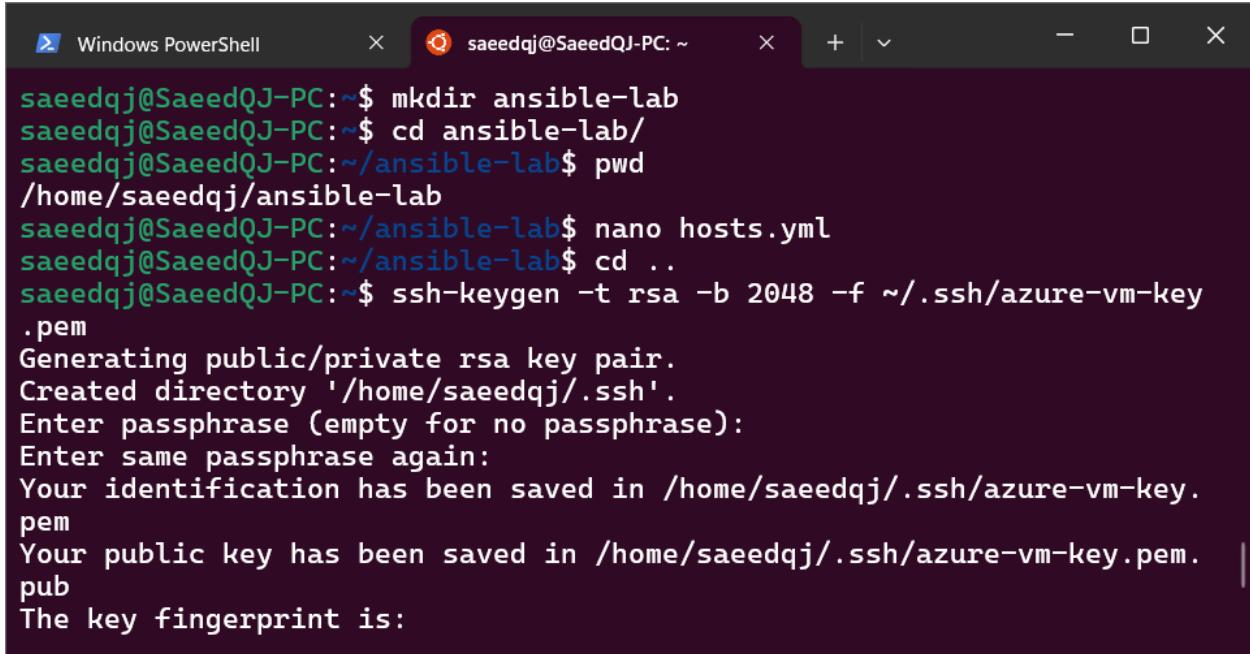
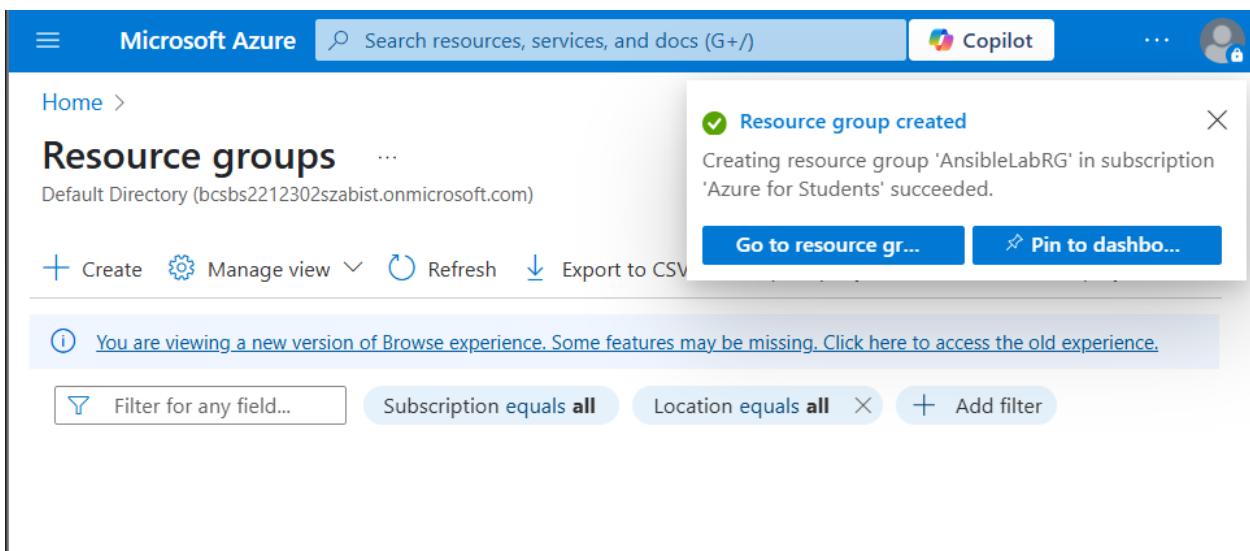


ANSIBLE LAB

Saeedulkhair - 2212302



```
saeedqj@SaeedQJ-PC:~$ mkdir ansible-lab
saeedqj@SaeedQJ-PC:~$ cd ansible-lab/
saeedqj@SaeedQJ-PC:~/ansible-lab$ pwd
/home/saeedqj/ansible-lab
saeedqj@SaeedQJ-PC:~/ansible-lab$ nano hosts.yml
saeedqj@SaeedQJ-PC:~/ansible-lab$ cd ..
saeedqj@SaeedQJ-PC:~$ ssh-keygen -t rsa -b 2048 -f ~/.ssh/azure-vm-key
.pem
Generating public/private rsa key pair.
Created directory '/home/saeedqj/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/saeedqj/.ssh/azure-vm-key.
.pem
Your public key has been saved in /home/saeedqj/.ssh/azure-vm-key.pem.
pub
The key fingerprint is:
```



Microsoft Azure Search resources, services, and docs (G+/-) Copilot

Home > Resource groups

Default Directory (bcsbs2212302szabist.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV

Go to resource gr... Pin to dashbo...

You are viewing a new version of Browse experience. Some features may be missing. Click here to access the old experience.

Filter for any field... Subscription equals all Location equals all Add filter

Resource group created
Creating resource group 'AnsibleLabRG' in subscription 'Azure for Students' succeeded.

Microsoft Azure Copilot ...

Home > Compute infrastructure

Compute infrastructure | Virtual machines

Microsoft

» **Virtual machines** Get started

Create Switch to classic Reservations Manage view Group by none

You are viewing a new version of Browse experience. Some features may be missing. Click here to access the old experience.

Filter for any field...

Subscription equals all Type equals all Resource Group equals all Location equals all
+ Add filter

Name ↑	Subscription	Resource Group	Location	Status
AnsibleUbuntuVM ... Azure for Stud... AnsibleLabRG East Asia Creating				

```
saeedqj@SaeedQJ-PC:~$ ssh -i ~/.ssh/azure-vm-key.pem azureuser@20.2.8.201
The authenticity of host '20.2.8.201 (20.2.8.201)' can't be established.
ED25519 key fingerprint is SHA256:bsE952fDdm7LTHTeehpnPv4lqFUWHPGAmJ0jvcxTo2Q.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
```

```
azureuser@AnsibleUbuntuVM:~$ exit
logout
Connection to 20.2.8.201 closed.
saeedqj@SaeedQJ-PC:~$
```

```
saeedqj@saeedQJ-PC:~$ nano hosts.yml
saeedqj@saeedQJ-PC:~$ ansible -i hosts.yml azure_vm -m ping
[WARNING]: Platform linux on host azure_vm is using the discovered Python
interpreter at /usr/bin/python3.12, but future installation of another
Python interpreter could change the meaning of that path. See
https://docs.ansible.com/ansible-
core/2.18/reference_appendices/interpreter_discovery.html for more information.
azure_vm | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3.12"
    },
    "changed": false,
    "ping": "pong"
}
```

```
saeedqj@saeedQJ-PC:~$ mv hosts.yml ansible-lab/
saeedqj@saeedQJ-PC:~$ ls -a
.          .bash_history   .landscape     .sudo_as_admin_successful
..         .bash_logout     .local        ansible-lab
.ansible   .bashrc        .motd_shown
.aws       .cache         .profile
.azure     .docker        .ssh
saeedqj@saeedQJ-PC:~$ cd ansible-lab/
saeedqj@saeedQJ-PC:~/ansible-lab$ ansible -i hosts.yml azure_vm -m ping
[WARNING]: Platform linux on host azure_vm is using the discovered Python
```

Created Playbook but forgot to do the Syntax Check, as I was really curious about what will happen so !! 😊

```

saeedqj@SaeedQJ-PC:~/ansible-lab$ nano deploy_lab.yml
saeedqj@SaeedQJ-PC:~/ansible-lab$ ansible-playbook -i hosts.yml deploy_lab.yml

PLAY [Configure Azure VM for Ansible Lab] ****
TASK [Gathering Facts] ****
[WARNING]: Platform linux on host azure_vm is using the discovered Python
interpreter at /usr/bin/python3.12, but future installation of another Python
interpreter could change the meaning of that path. See
https://docs.ansible.com/ansible-
core/2.18/reference_appendices/interpreter_discovery.html for more information.
ok: [azure_vm]

TASK [Update apt cache] ****
changed: [azure_vm]

TASK [Install Apache web server] ****
changed: [azure_vm]

TASK [Start Apache and enable it on boot] ****
ok: [azure_vm]

TASK [Create a directory in home] ****
changed: [azure_vm]

TASK [Deploy custom index.html] ****
changed: [azure_vm]

PLAY RECAP ****
azure_vm : ok=6    changed=4    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
saeedqj@SaeedQJ-PC:~/ansible-lab$ █

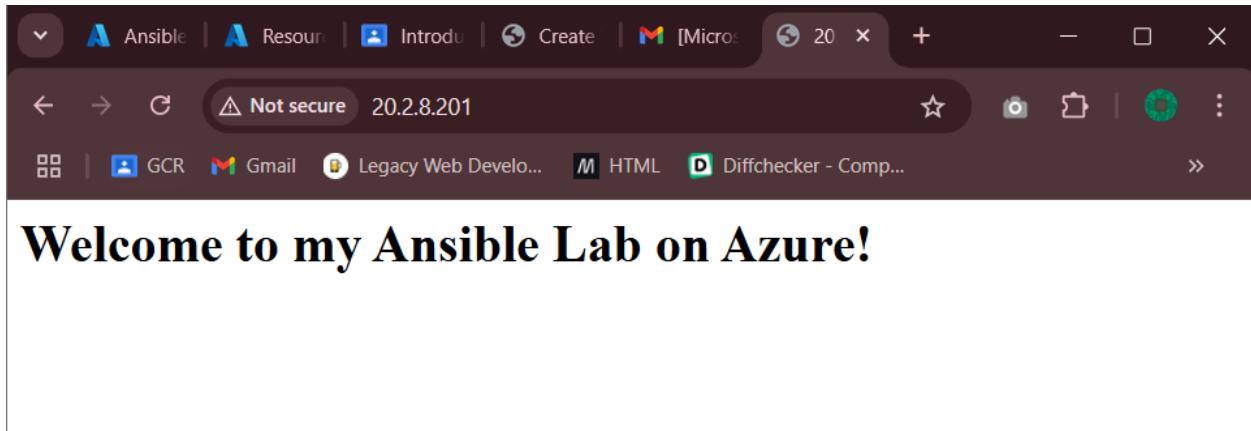
```

Alhamdolillah it worked out !!

```

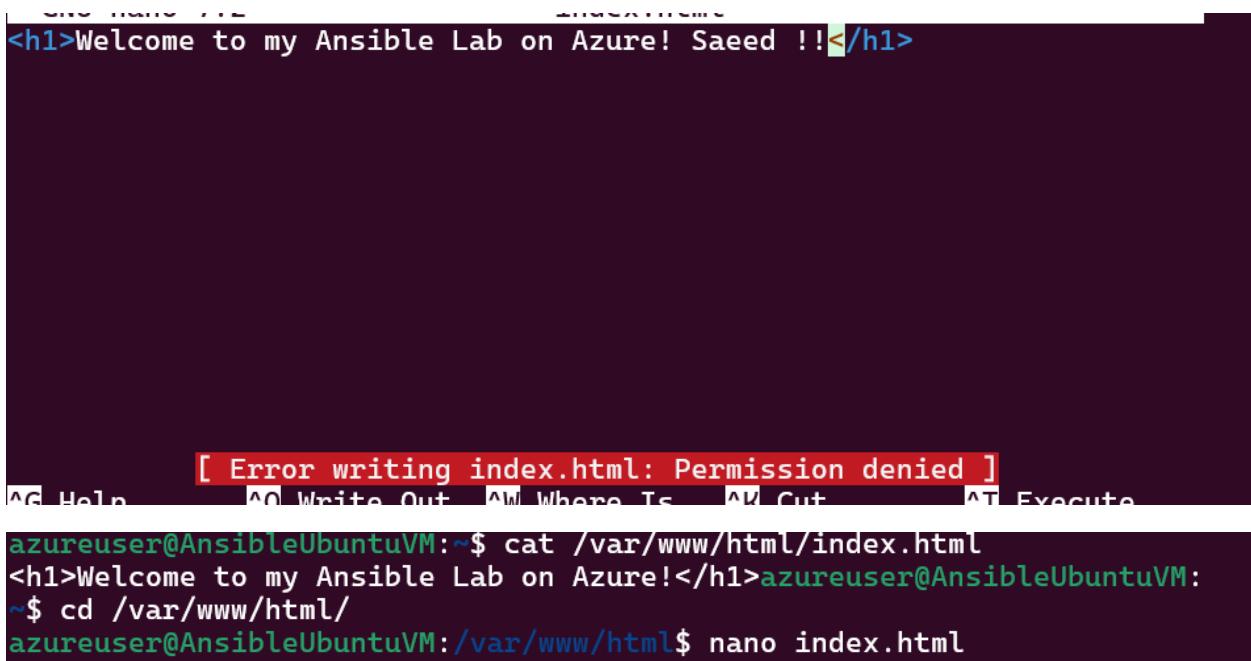
Last login: Fri Jun 27 11:17:10 2025 from 223.123.112.48
azureuser@AnsibleUbuntuVM: $ sudo systemctl status
apache2
● AnsibleUbuntuVM
  State: running
    Units: 500 loaded (incl. loaded aliases)
      Jobs: 0 queued
     Failed: 0 units
      Since: Fri 2025-06-27 10:56:09 UTC; 42min ago
    systemd: 255.4-1ubuntu8.6
   CGroup: /
      └─azure.slice
        └─walinuxagent.service
          ├─1012 /usr/bin/python3 -u /usr/sbin/waagent -daemon
          ├─1506 /usr/bin/python3 -u bin/WALinuxAgent-2.14.0.1-p
          └─init.scope
            └─1 /sbin/init
        └─system.slice
          ├─ModemManager.service
            └─ModemManager.service
lines 1-16... skipping...
● AnsibleUbuntuVM
  State: running
    Units: 500 loaded (incl. loaded aliases)
      Jobs: 0 queued
     Failed: 0 units
      Since: Fri 2025-06-27 10:56:09 UTC; 42min ago
    systemd: 255.4-1ubuntu8.6
   CGroup: /
      └─azure.slice
        └─walinuxagent.service
          ├─1012 /usr/bin/python3 -u /usr/sbin/waagent -daemon
          ├─1506 /usr/bin/python3 -u bin/WALinuxAgent-2.14.0.1-py3.12.egg -run-exhandlers
          └─init.scope
            └─1 /sbin/init
        └─system.slice
          ├─ModemManager.service
            └─1198 /usr/sbin/ModemManager

```



```
Last login: Fri Jun 27 11:37:57 2025 from 223.123.112.48
azureuser@AnsibleUbuntuVM:~$ ls -ld ~/ansible_lab
drwxr-xr-x 2 azureuser azureuser 4096 Jun 27 11:16 /home/azureuser/ansible_lab
```

I tried to overwrite the HTML but it didn't allow me.



```
azur...@AnsibleUbuntuVM:~$ cat /var/www/html/index.html
<h1>Welcome to my Ansible Lab on Azure!</h1>azur...
azur...@AnsibleUbuntuVM:~$ cd /var/www/html/
azur...@AnsibleUbuntuVM:/var/www/html$ nano index.html
```