Cloud Computing

Lab1: Creation of Virtual Machine

Name: Himal Thapa

Roll No: 16

Program: BECE

1.The "Your deployment is complete" screen.

Your deployment is complete

Deployment name: CreateVm-canonical.ubuntu-24_04-lts-server-2...
Subscription: Azure for Students
Resource group: himal_resource

Start time: 12/22/2025, 10:42:49 PM
Correlation ID: 2af591fe-80dd-4f6d-b7cc-22434c0c10bd

∨ Deployment details

∧ Next steps

Setup auto-shutdown   Recommended

Monitor VM health, performance and network dependencies   Recommended

Run a script inside the virtual machine   Recommended

Go to resource   Create another VM

Give feedback

Tell us about your experience with deployment

2. A successful SSH connection to their VM (terminal screenshot).

```
himalthapa@MacBook-Air keys % chmod 400  /Users/himalthapa/Desktop/keys/himalthapa_key.pem
himalthapa@MacBook-Air keys % ssh -i  /Users/himalthapa/Desktop/keys/himalthapa_key.pem himal@52.184.97.146
The authenticity of host '52.184.97.146 (52.184.97.146)' can't be established.
ED25519 key fingerprint is SHA256:LYM4R684tv9WGX7wYjVDW0mWyyVkZJhfASfNWhaEaGk.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '52.184.97.146' (ED25519) to the list of known hosts.
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1017-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/pro

 System information as of Mon Dec 22 17:03:23 UTC 2025

  System load:  0.04              Processes:             125
  Usage of /:   5.6% of 28.02GB   Users logged in:       0
  Memory usage: 4%                IPv4 address for eth0: 10.2.0.4
  Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status




The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

himal@himalthapa:~$ sudo apt update && sudo apt upgrade -y
```

3. Nginx active running screenshot and welcome to nginx page in browser


```
himal@himalthapa:~$ sudo systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
     Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: en>
     Active: active (running) since Mon 2025-12-22 17:04:13 UTC; 1min 16s ago
       Docs: man:nginx(8)
    Process: 2426 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_proce>
    Process: 2427 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (c>
   Main PID: 2463 (nginx)
      Tasks: 3 (limit: 9507)
     Memory: 2.4M (peak: 5.2M)
        CPU: 32ms
     CGroup: /system.slice/nginx.service
             ├─2463 "nginx: master process /usr/sbin/nginx -g daemon on; master>
             ├─2466 "nginx: worker process"
             └─2467 "nginx: worker process"

Dec 22 17:04:13 himalthapa systemd[1]: Starting nginx.service - A high performa>
Dec 22 17:04:13 himalthapa systemd[1]: Started nginx.service - A high performan>
```

4. A final screenshot showing the deleted Resource Group.

Delete a resource group ✕

The following resource group and all its dependent resources will be permanently deleted.

Resource group to be deleted

🔷 himal_resource 📋

6 resources being deleted across 1 subscriptions, 2 resource groups
All dependent resources, including hidden types, are shown

Name	Resource type	Subscription	Resource Group
🖥️ himalthapa	Virtual machine	Azure for Students	himal_resource
🛡️ himalthapa-nsg	Network security group	Azure for Students	himal_resource
‹··› himalthapa-vnet	Virtual network	Azure for Students	himal_resource
🖧 himalthapa452	Network interface	Azure for Students	himal_resource
🔑 himalthapa_key	SSH key	Azure for Students	himal_resource
💽 himalthapa_OsDisk_1_f74b56c38ea04c5bb356d0b	Disk	Azure for Students	HIMAL_RESOURCE

☑️ Apply force delete for selected Virtual machines and Virtual machine scale sets ⓘ

Enter resource group name to confirm deletion *

himal_resource

Delete Cancel