



IT4090

Cloud Computing

4th Year, 1st Semester

Azure Lab 2

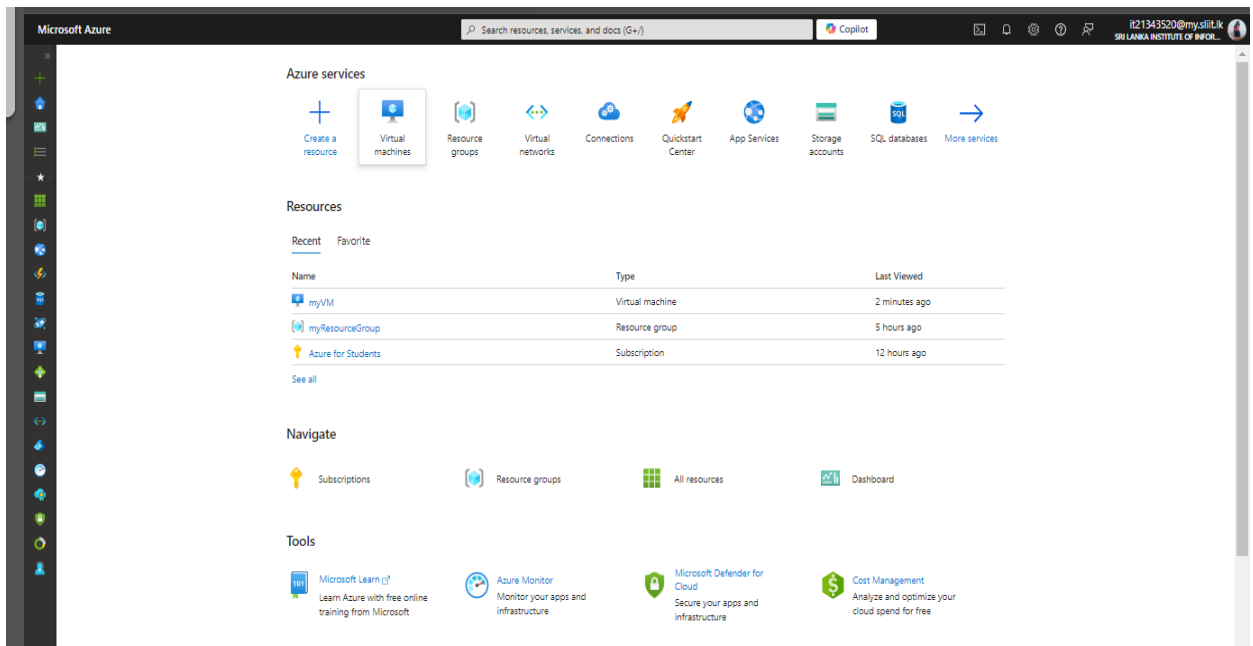
Submitted to
Sri Lanka Institute of Information Technology

IT21343520

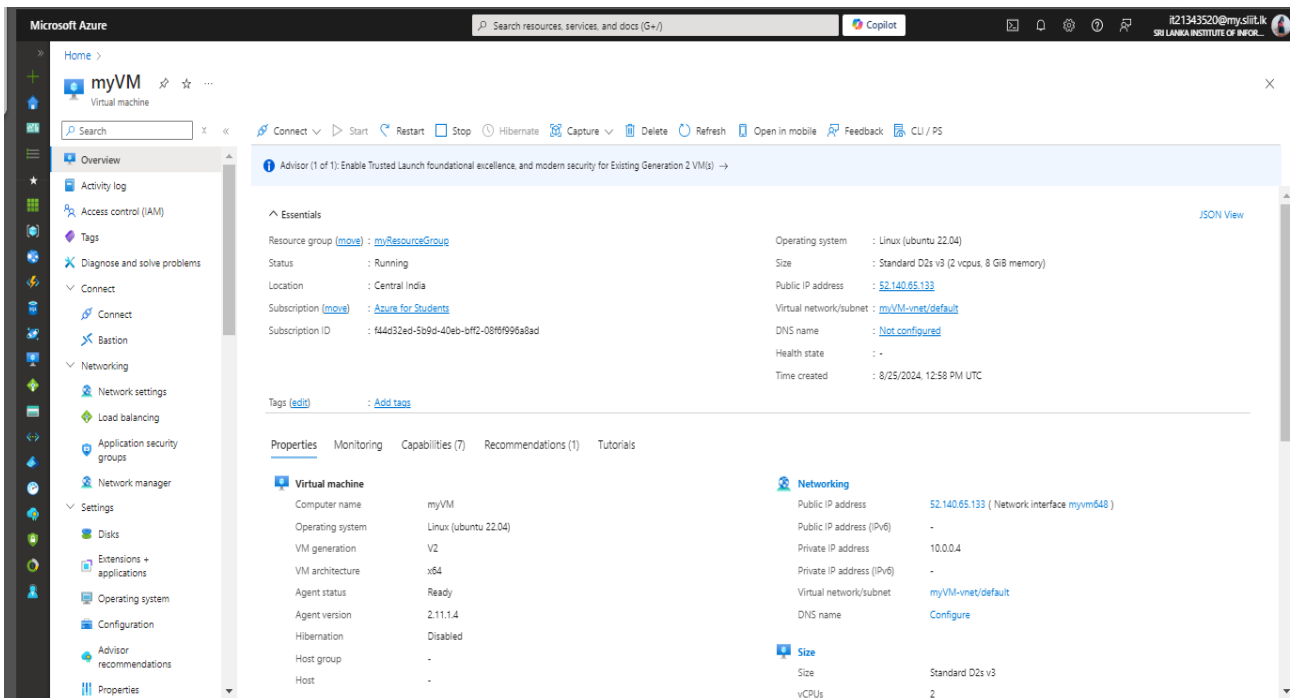
In partial fulfillment of the requirements for the
Bachelor of Science Special Honors Degree in Information Technology

08/25/2024

1. Go to the [Azure portal](#) to find the VM. Search for and select **Virtual machines**



2. Select the VM you'd like to attach the disk to from the list



3. In the **Virtual machines** page, under **Settings**, select **Disks**

The screenshot shows the 'Disks' settings page for a virtual machine named 'myVM'. The left sidebar contains a navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Connect, Bastion, Networking, Network settings, Load balancing, Application security groups, Network manager, Settings, Disks, Extensions + applications, Operating system, Configuration, Advisor recommendations, and Properties. The 'Disks' section is selected. The main content area is divided into 'OS disk' and 'Data disks' sections. The 'OS disk' section shows a table with one disk: 'myVM_disk1_2b484eebe6014114b97e392c8f90a724' with a size of 30 GiB, Premium SSD LRS storage type, 120 Max IOPS, 25 Max throughput, SSE with PMK encryption, and Read/write host caching. The 'Data disks' section shows a filter by name input and a message 'Showing 0 of 0 attached data disks'. Below this are buttons for 'Create and attach a new disk' and 'Attach existing disks'. At the bottom, there are 'Apply' and 'Discard changes' buttons.

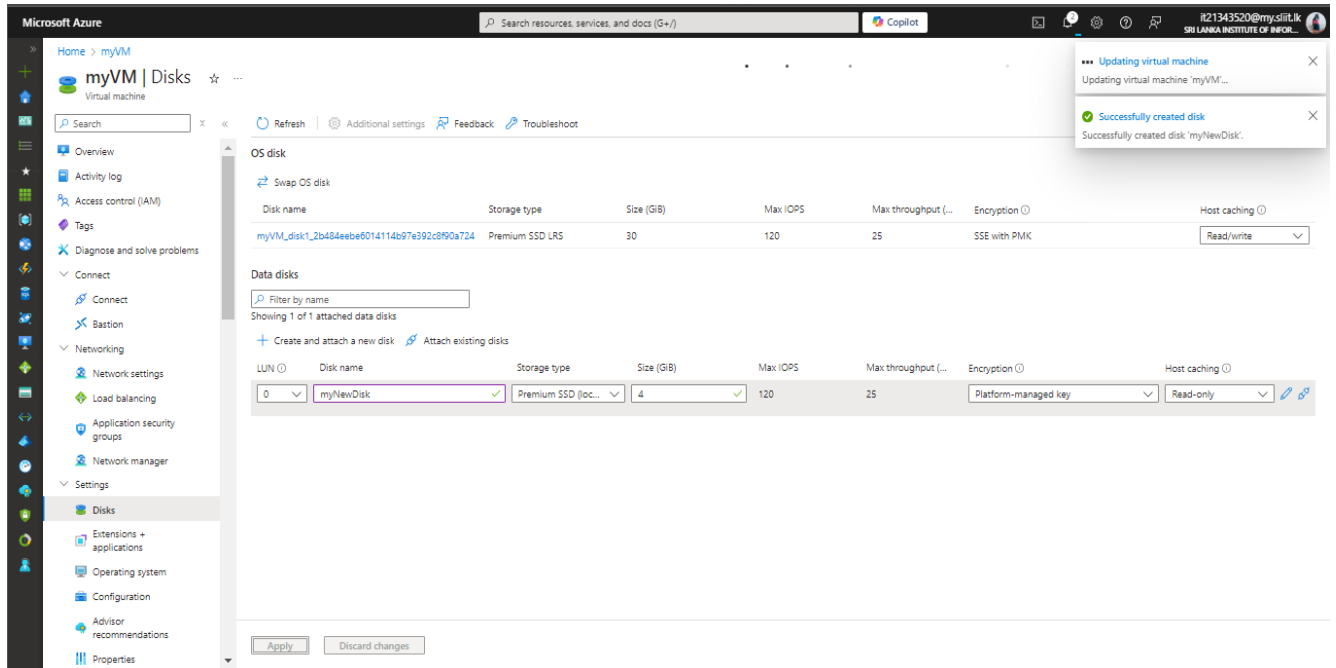
Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption	Host caching
myVM_disk1_2b484eebe6014114b97e392c8f90a724	Premium SSD LRS	30	120	25	SSE with PMK	Read/write

LUN	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption	Host caching
No data disks attached							

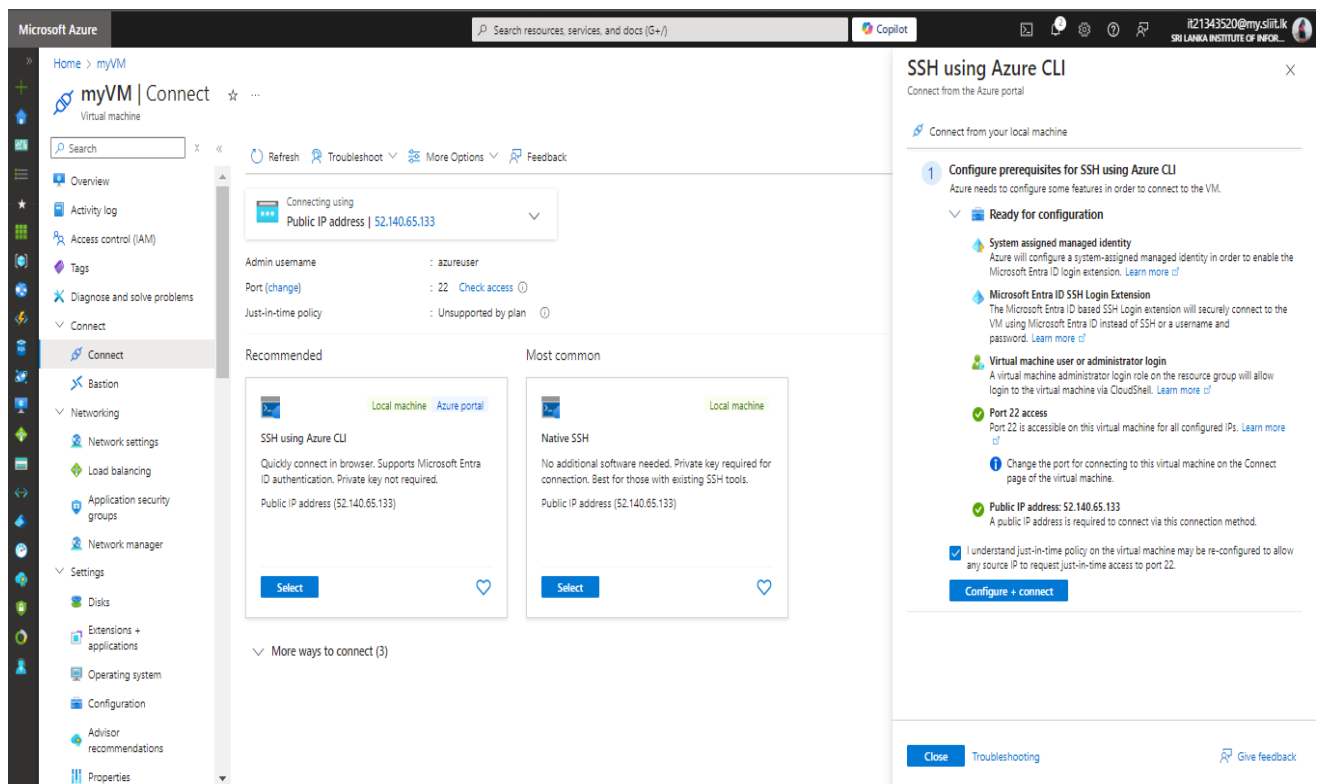
Attach a new disk

1. On the **Disks** pane, under **Data disks**, select **Create and attach a new disk**
2. Enter a name for your managed disk. Review the default settings, and update the **Storage type**, **Size (GiB)**, **Encryption** and **Host caching** as necessary

LUN	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption	Host caching
0	Data disk name	Premium SSD (L...	4	120	25	Platform-managed key	Read-only



Connect to the Linux VM to mount the new disk



```
azureuser@myVM: ~
* Support: https://ubuntu.com/pro

System information as of Fri Aug 16 17:29:51 UTC 2024

System load: 0.05      Processes: 124
Usage of /: 5.7% of 28.02GB Users logged in: 0
Memory usage: 3%      IPv4 address for eth0: 10.0.0.4
Swap usage: 0%

* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
just raised the bar for easy, resilient and secure K8s cluster deployment.

https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Applications is not enabled.

2 updates can be applied immediately.
2 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

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

Last login: Fri Aug 16 16:46:44 2024 from 112.134.64.7
azureuser@myVM:~$ ssh azureuser@172.207.173.185
The authenticity of host '172.207.173.185 (172.207.173.185)' can't be established.
ED25519 key fingerprint is SHA256:mS8BVXwt4lp8gh9j2J8T2VXG8Ksq1rP12dUNZq8X61c.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.207.173.185' (ED25519) to the list of known hosts.
azureuser@172.207.173.185: Permission denied (publickey).
azureuser@myVM:~$ lsblk -o NAME,CTL,SIZE,MOUNTPOINT | grep -i "sd"
sda      0:0:0:0       38G /
|--sda1      29G /
|--sda14      4M
|--sda15     106M /boot/efi
|--sda16     913M /boot
sdb      0:0:0:1       16G
|--sdb1      16G /mnt
sdc      1:0:0:0        4G
azureuser@myVM:~$
```

Find the disk

```
azureuser@myVM: ~
* Support: https://ubuntu.com/pro

System information as of Fri Aug 16 17:29:51 UTC 2024

System load: 0.05      Processes: 124
Usage of /: 5.7% of 28.02GB Users logged in: 0
Memory usage: 3%      IPv4 address for eth0: 10.0.0.4
Swap usage: 0%

* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
just raised the bar for easy, resilient and secure K8s cluster deployment.

https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Applications is not enabled.

2 updates can be applied immediately.
2 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

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

Last login: Fri Aug 16 16:46:44 2024 from 112.134.64.7
azureuser@myVM:~$ ssh azureuser@172.207.173.185
The authenticity of host '172.207.173.185 (172.207.173.185)' can't be established.
ED25519 key fingerprint is SHA256:mS8BVXwt4lp8gh9j2J8T2VXG8Ksq1rP12dUNZq8X61c.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.207.173.185' (ED25519) to the list of known hosts.
azureuser@172.207.173.185: Permission denied (publickey).
azureuser@myVM:~$ lsblk -o NAME,CTL,SIZE,MOUNTPOINT | grep -i "sd"
sda      0:0:0:0       38G /
|--sda1      29G /
|--sda14      4M
|--sda15     106M /boot/efi
|--sda16     913M /boot
sdb      0:0:0:1       16G
|--sdb1      16G /mnt
sdc      1:0:0:0        4G
azureuser@myVM:~$
```