IT4090
Cloud Computing
4th Year, 1st Semester

Azure Lab 2

Azure Lab Assignment

Submitted to

Sri Lanka Institute of Information Technology

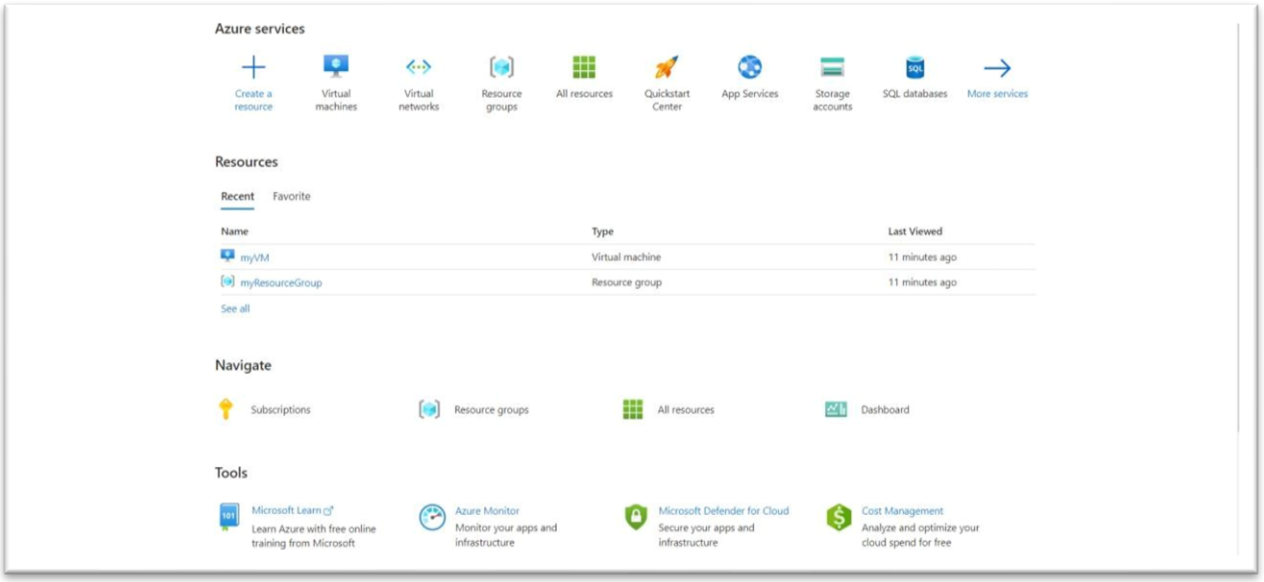
IT21228094

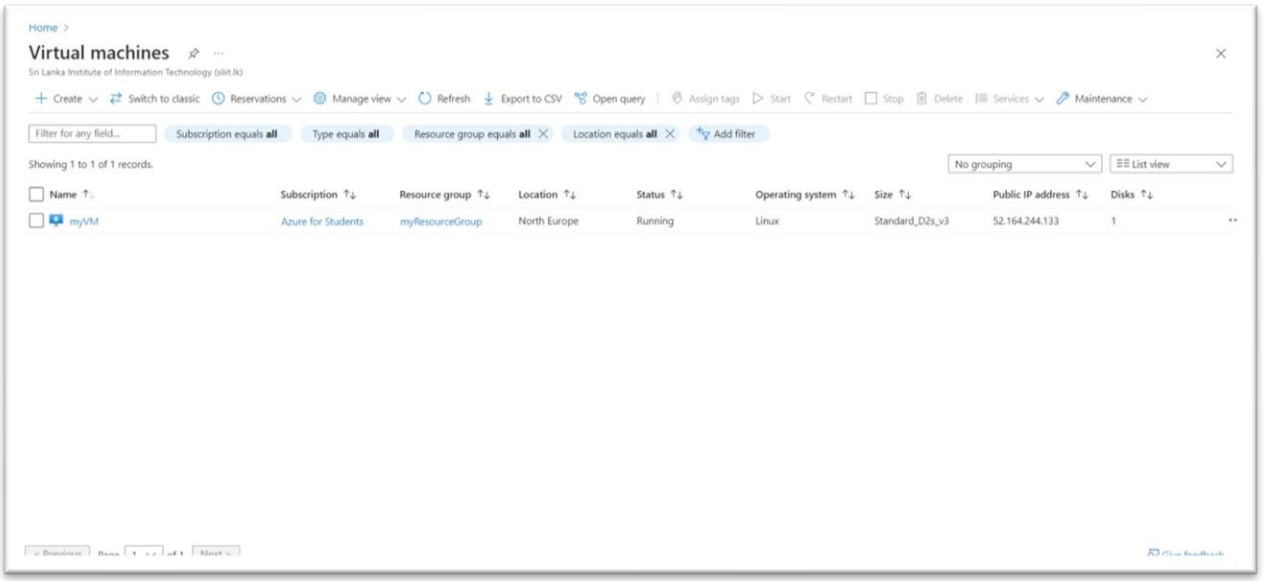
In partial fulfillment of the requirements for the

Bachelor of Science Special Honors Degree in Information Technology

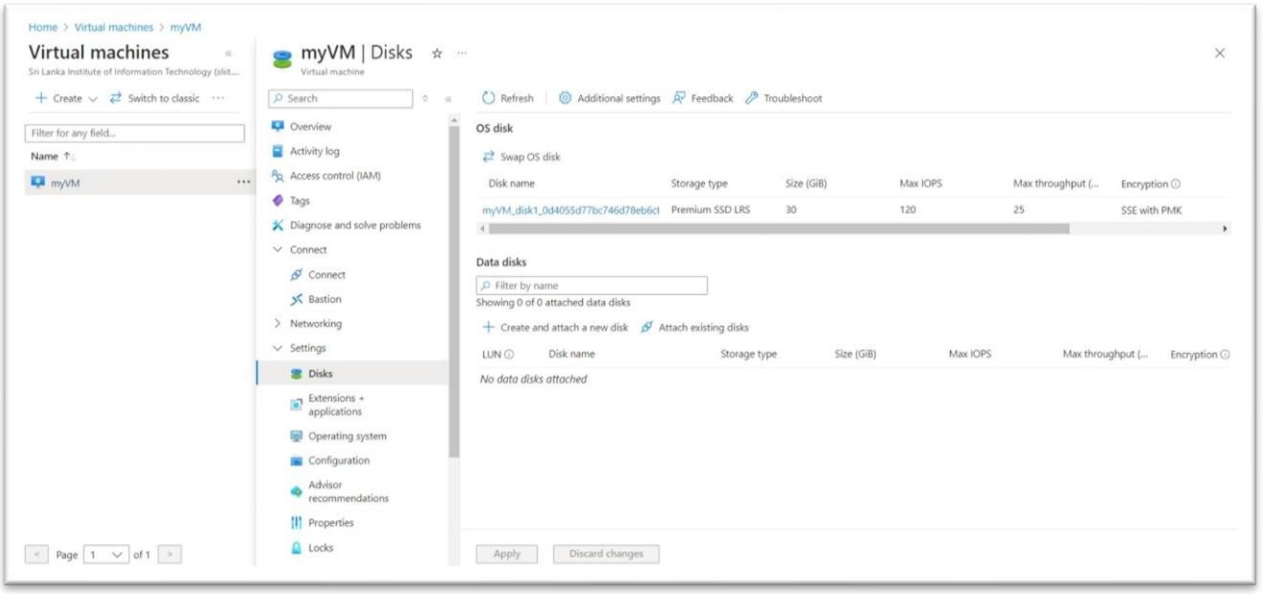
25.08.2024

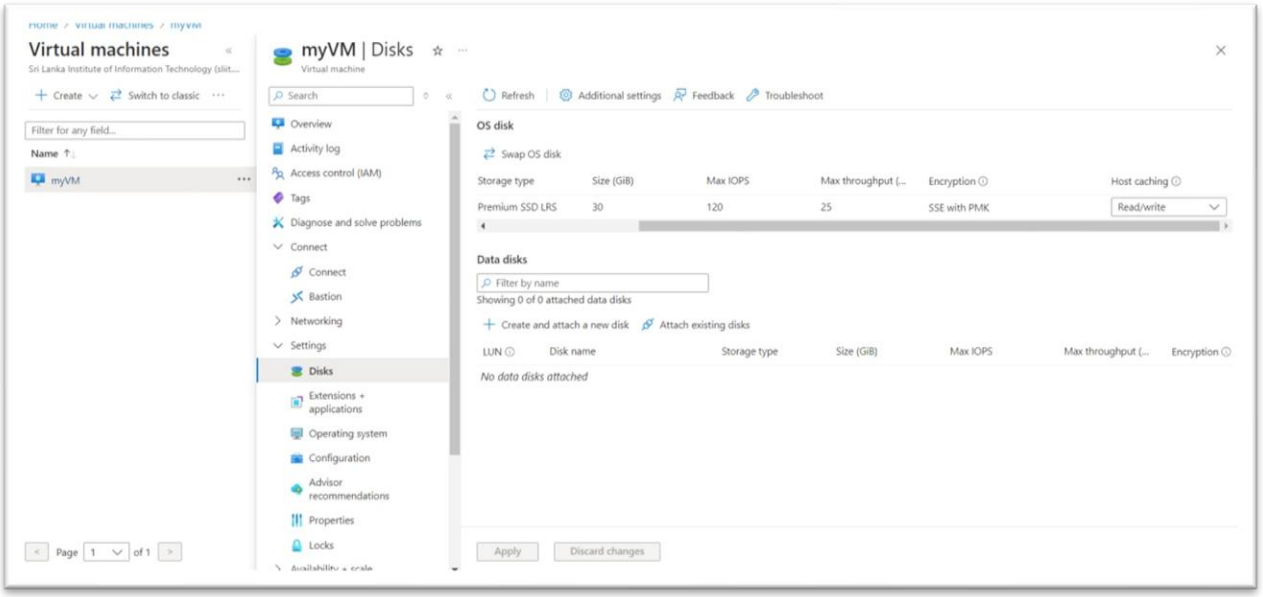
1. Find the virtual machine



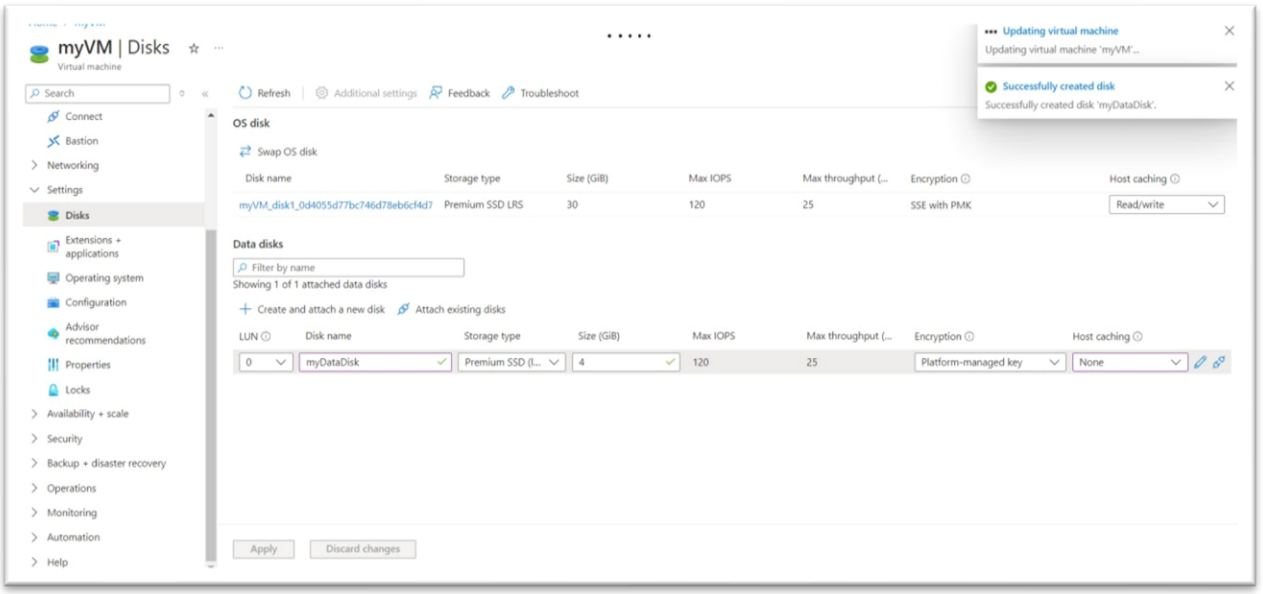


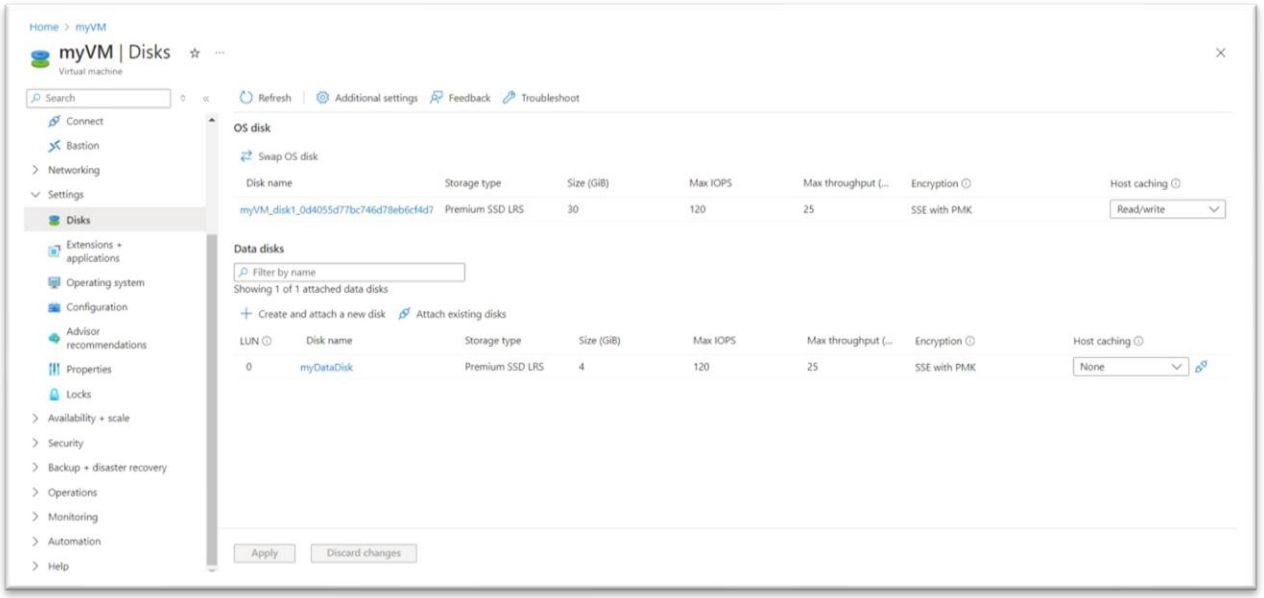
2. Attach a new disk





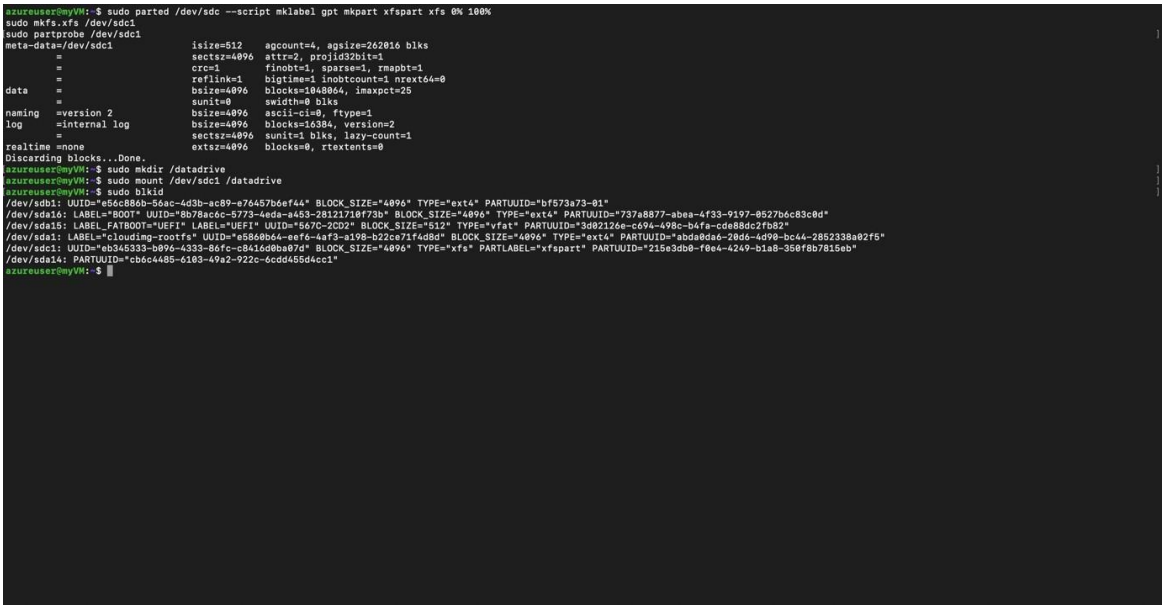
3. Attach an existing disk




Home > myVM
myVM | Disks
Virtual machine
Search
Refresh
Additional settings
Feedback
Troubleshoot
Connect
Bastion
Networking
Settings
Disks
Extensions + applications
Operating system
Configuration
Advisor recommendations
Properties
Locks
Availability + scale
Security
Backup + disaster recovery
Operations
Monitoring
Automation
Help
OS disk
Swap OS disk
Disk name
Storage type
Size (GiB)
Max IOPS
Max throughput (...
Encryption
Host caching
myVM_disk1_0d4055d77bc746d78eb6cf4d7
Premium SSD LRS
30
120
25
SSE with PMK
Read/write
Data disks
Filter by name
Showing 1 of 1 attached data disks
Create and attach a new disk
Attach existing disks
LUN
Disk name
Storage type
Size (GiB)
Max IOPS
Max throughput (...
Encryption
Host caching
0
myDataDisk
Premium SSD LRS
4
120
25
SSE with PMK
None
Apply
Discard changes

4. Connect to the Linux VM to mount the new disk

5. Prepare a new empty disk



6. Mount the disk

```
azureuser@myVM:~$ sudo parted /dev/sdc --script mklabel gpt mkpart xfspart xfs 0% 100%
sudo mkfs.xfs /dev/sdc1
sudo partprobe /dev/sdc1
meta-data=/dev/sdc1              isize=512    agcount=4, agsize=262016 blks
         =                       sectsz=4096  attr=2, projid32bit=1
         =                       crc=1        finobt=1, sparse=1, rmapbt=1
         =                       reflink=1    bigtime=1 inobtcount=1 nrext64=0
data     =                       bsize=4096   blocks=1048064, imaxpct=25
         =                       sunit=0      swidth=0 blks
naming   =version 2              bsize=4096   ascii-ci=0, ftype=1
log      =internal log           bsize=4096   blocks=16384, version=2
         =                       sectsz=4096  sunit=1 blks, lazy-count=1
realtime =none                   extsz=4096   blocks=0, rtextents=0
Discarding blocks...Done.
azureuser@myVM:~$ sudo mkdir /datadrive
azureuser@myVM:~$ sudo mount /dev/sdc1 /datadrive
azureuser@myVM:~$ sudo blkid
/dev/sdb1: UUID="e56c886b-56ac-4d3b-ac89-e76457b6ef44" BLOCK_SIZE="4096" TYPE="ext4" PARTUUID="bf573a73-01"
/dev/sda16: LABEL="BOOT" UUID="8b78ac6c-5773-4eda-a453-28121710f73b" BLOCK_SIZE="4096" TYPE="ext4" PARTUUID="737a8877-abea-4f33-9197-0527b6c83c0d"
/dev/sda15: LABEL_FATBOOT="UEFI" LABEL="UEFI" UUID="567C-2CD2" BLOCK_SIZE="512" TYPE="vfat" PARTUUID="3d02126e-c694-498c-b4fa-cde88dc2fb82"
/dev/sda1: LABEL="cloudimg-rootfs" UUID="e5860b64-eef6-4af3-a198-b22ce71f4d8d" BLOCK_SIZE="4096" TYPE="ext4" PARTUUID="abda0da6-20d6-4d90-bc44-2852338a02f5"
/dev/sdc1: UUID="eb345333-b096-4333-86fc-c8416d0ba07d" BLOCK_SIZE="4096" TYPE="xfs" PARTLABEL="xfspart" PARTUUID="215e3db0-f0e4-4249-b1a8-350f8b7815eb"
/dev/sda14: PARTUUID="cb6c4485-6103-49a2-922c-6cdd455d4cc1"
azureuser@myVM:~$
```

```
 GNU nano 7.2                                                    /etc/fstab
# CLOUD_IMG: This file was created/modified by the Cloud Image build process
UUID=e5860b64-eef6-4af3-a198-b22ce71f4d8d       /        ext4   discard,commit=30,errors=remount-ro     0 1
LABEL=BOOT      /boot   ext4    defaults,discard        0 2
UUID=567C-2CD2  /boot/efi       vfat    umask=0077      0 1
/dev/disk/cloud/azure_resource-part1    /mnt    auto    defaults,nofail,x-systemd.requires=cloud-init.service,_netdev,comment=cloudconfig      0       2
UUID=33333333-3b3b-3c3c-3d3d-3e3e3e3e3e3e /datadrive xfs defaults,nofail 1 2

                                [ Read 6 lines ]
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location  M-U Undo    M-A Set Mark    M-] To Bracket  M-Q Previous  ^B Back        ^◂ Prev Word
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^/ Go To Line M-E Redo    M-6 Copy        ^Q Where Was    M-W Next      ^F Forward     ^▸ Next Word
```

7. Verify the disk