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CLASS: BE.CSE (III YR)

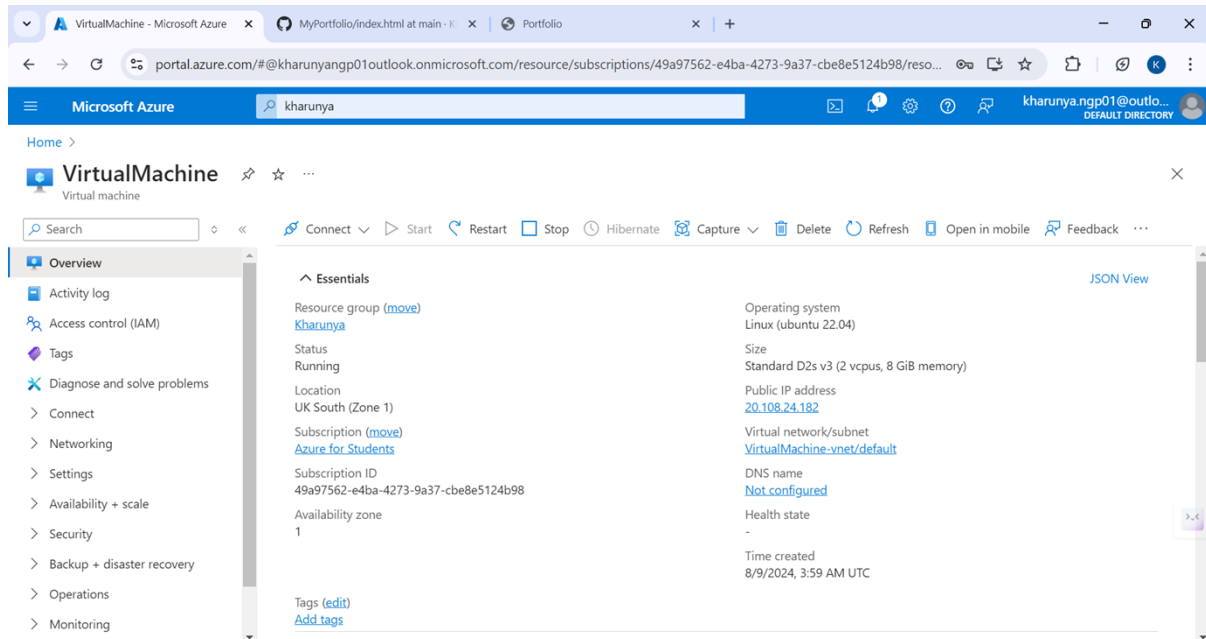
DATE: 06/08/2024 – 10/08/2024

GIT REPOSITORY: <https://github.com/KHARUNYA-M/MyPortfolio>

MICROSOFT AZURE

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MODULE 1: CREATION OF VIRTUAL MACHINE



MODULE 2: CONFIGURE GIT WITH NETWORK

Requesting a Cloud Shell.Succeeded.

Connecting terminal...

Your Cloud Shell session will be ephemeral so no files or system changes will persist beyond your current session.

```
gvkharunya [ ~ ]$ ssh kharunya@20.108.24.182
```

The authenticity of host '20.108.24.182 (20.108.24.182)' can't be established.

ED25519 key fingerprint is SHA256:wskqFZBfQJaZr9f3zceh7m5u8398gj4g4PMvhQapzjY.

This key is not known by any other names

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added '20.108.24.182' (ED25519) to the list of known hosts.

kharunya@20.108.24.182's password:

Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1010-azure x86_64)

* Documentation: <https://help.ubuntu.com>

* Management: <https://landscape.canonical.com>

* Support: <https://ubuntu.com/pro>

System information as of Fri Aug 9 07:26:42 UTC 2024

System load: 0.62 Processes: 135

Usage of /: 5.0% of 28.02GB Users logged in: 0

Memory usage: 4% 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.

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.

```
kharunya@VirtualMachine:~$ sudo apt update
```

```
Hit:1 http://azure.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://azure.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://azure.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://azure.archive.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:5 http://azure.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:6 http://azure.archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:7 http://azure.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:8 http://azure.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]
Get:9 http://azure.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:10 http://azure.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:11 http://azure.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:12 http://azure.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B]
Get:13 http://azure.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [344 kB]
Get:14 http://azure.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [86.7 kB]
Get:15 http://azure.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [5704 B]
Get:16 http://azure.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [321 kB]
Get:17 http://azure.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [135 kB]
Get:18 http://azure.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [45.0 kB]
Get:19 http://azure.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [12.7 kB]
Get:20 http://azure.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [241 kB]
```

Get:21 <http://azure.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en> [47.0 kB]

Get:22 <http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages> [14.1 kB]

Get:23 <http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en> [3608 B]

Get:24 <http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components> [212 B]

Get:25 <http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata> [532 B]

Get:26 <http://azure.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components> [208 B]

Get:27 <http://azure.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata> [112 B]

Get:28 <http://azure.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages> [10.3 kB]

Get:29 <http://azure.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en> [10.5 kB]

Get:30 <http://azure.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components> [17.6 kB]

Get:31 <http://azure.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata> [1016 B]

Get:32 <http://azure.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components> [216 B]

Get:33 <http://azure.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata> [116 B]

Get:34 <http://azure.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components> [212 B]

Get:35 <http://azure.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata> [116 B]

Get:36 <http://azure.archive.ubuntu.com/ubuntu noble-security/main amd64 Packages> [288 kB]

Get:37 <http://azure.archive.ubuntu.com/ubuntu noble-security/main Translation-en> [66.6 kB]

Get:38 <http://azure.archive.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata> [3696 B]

Get:39 <http://azure.archive.ubuntu.com/ubuntu noble-security/universe amd64 Packages> [249 kB]

Get:40 http://azure.archive.ubuntu.com/ubuntu noble-security/universe Translation-en [108 kB]
Get:41 http://azure.archive.ubuntu.com/ubuntu noble-security/universe amd64 Components [8632 B]
Get:42 http://azure.archive.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [9376 B]
Get:43 http://azure.archive.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [237 kB]
Get:44 http://azure.archive.ubuntu.com/ubuntu noble-security/restricted Translation-en [46.4 kB]
Get:45 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [10.6 kB]
Get:46 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse Translation-en [2808 B]
Get:47 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Get:48 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [344 B]
Fetched 28.3 MB in 5s (6181 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
16 packages can be upgraded. Run 'apt list --upgradable' to see them.
`kharunya@VirtualMachine:~$ sudo apt install git`
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.43.0-1ubuntu7.1).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 16 not upgraded.
`kharunya@VirtualMachine:~$ sudo apt install nginx`
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done

The following additional packages will be installed:

nginx-common

Suggested packages:

fcgiwrap nginx-doc ssl-cert

The following NEW packages will be installed:

nginx nginx-common

0 upgraded, 2 newly installed, 0 to remove and 16 not upgraded.

Need to get 552 kB of archives.

After this operation, 1596 kB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://azure.archive.ubuntu.com/ubuntu noble/main amd64 nginx-common all 1.24.0-2ubuntu7 [31.2 kB]

Get:2 http://azure.archive.ubuntu.com/ubuntu noble/main amd64 nginx amd64 1.24.0-2ubuntu7 [521 kB]

Fetches 552 kB in 0s (8072 kB/s)

Preconfiguring packages ...

Selecting previously unselected package nginx-common.

(Reading database ... 64517 files and directories currently installed.)

Preparing to unpack .../nginx-common_1.24.0-2ubuntu7_all.deb ...

Unpacking nginx-common (1.24.0-2ubuntu7) ...

Selecting previously unselected package nginx.

Preparing to unpack .../nginx_1.24.0-2ubuntu7_amd64.deb ...

Unpacking nginx (1.24.0-2ubuntu7) ...

Setting up nginx (1.24.0-2ubuntu7) ...

Setting up nginx-common (1.24.0-2ubuntu7) ...

debconf: unable to initialize frontend: Dialog

debconf: (Dialog frontend requires a screen at least 13 lines tall and 31 columns wide.)

debconf: falling back to frontend: Readline

Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service →
/usr/lib/systemd/system/nginx.service.

Processing triggers for ufw (0.36.2-6) ...

Processing triggers for man-db (2.12.0-4build2) ...

Scanning processes...

Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

```
kharunya@VirtualMachine:~$ sudo systemctl start nginx
```

```
kharunya@VirtualMachine:~$ sudo systemctl enable nginx
```

Synchronizing state of nginx.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.

Executing: /usr/lib/systemd/systemd-sysv-install enable nginx

```
kharunya@VirtualMachine:~$ cd /var/www/html
```

```
kharunya@VirtualMachine:/var/www/html$ sudo rm -rf *
```

```
kharunya@VirtualMachine:/var/www/html$ sudo git clone  
https://github.com/gvkharunya/Portfolio.git .
```

Cloning into '!'...

remote: Enumerating objects: 4, done.

remote: Counting objects: 100% (4/4), done.

remote: Compressing objects: 100% (4/4), done.

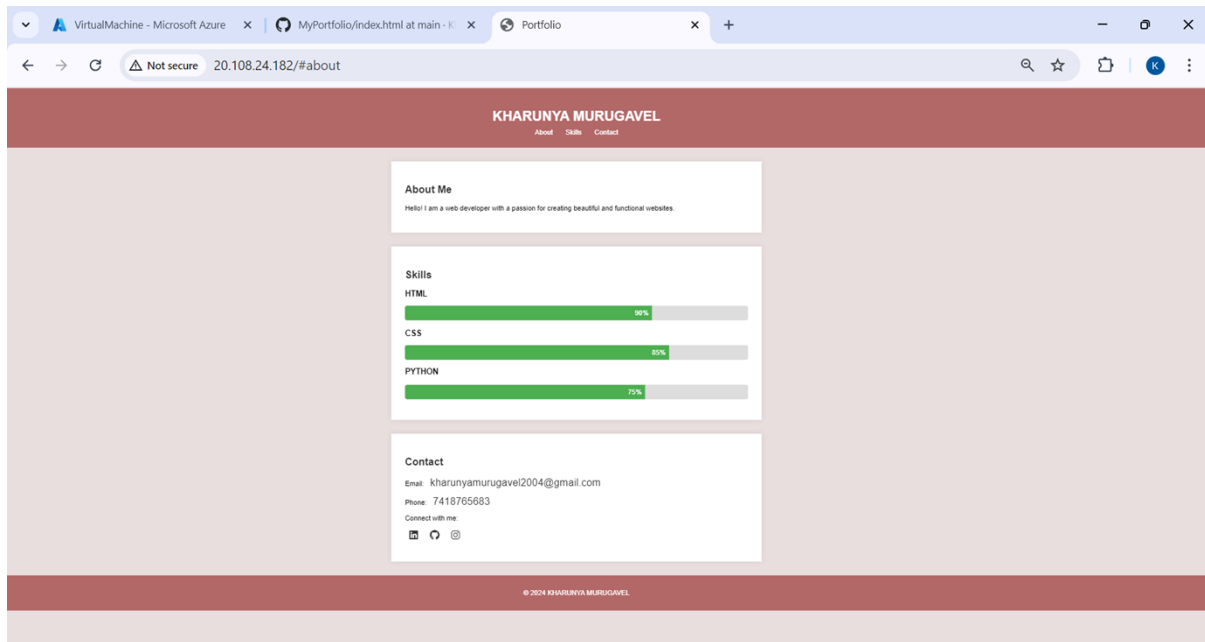
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0

Receiving objects: 100% (4/4), done.

```
kharunya@VirtualMachine:/var/www/html$ sudo chown -R www-data:www-data  
/var/www/html
```

```
kharunya@VirtualMachine:/var/www/html$
```

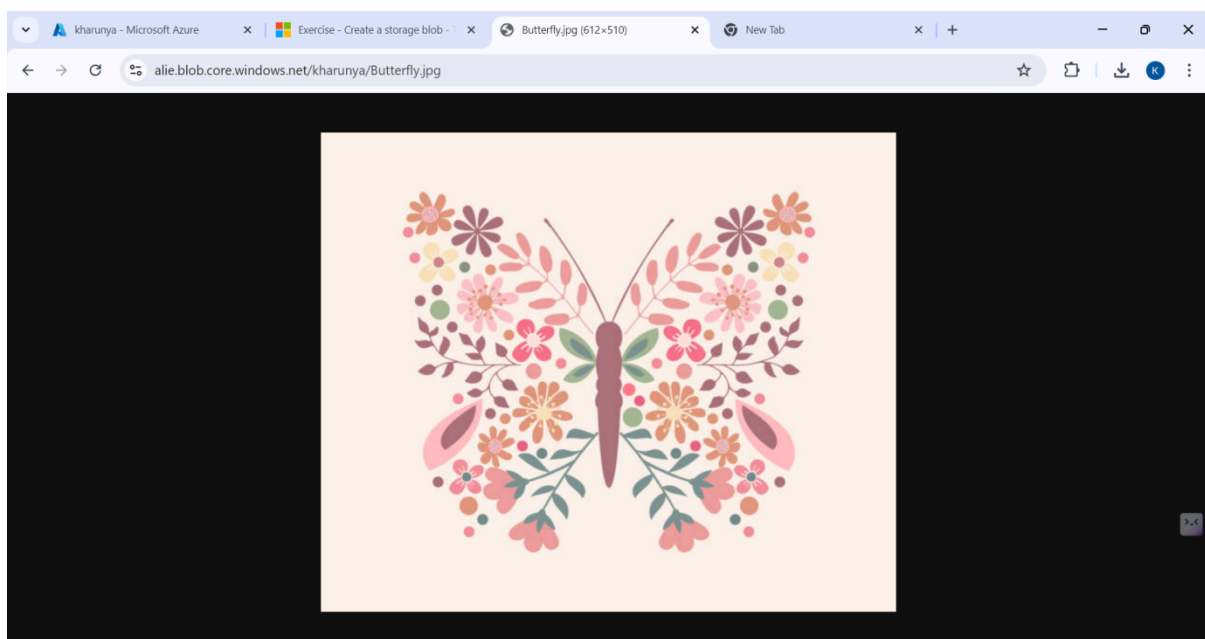

OUTPUT:



MODULE 3: CREATION OF STORAGE ACCOUNT

<https://alie.blob.core.windows.net/kharunya/Butterfly.jpg>

OUTPUT:



MODULE 4: CREATION OF STATIC WEB APPS

<https://green-pebble-0b492d803.5.azurestaticapps.net/>

OUTPUT:

