

NAME: NITHARSHANA.S

CLASS: BE.CSE (III YR)

DATE: 06/08/2024 – 10/08/2024

GIT REPOSITORY: <https://github.com/NITHARSHANA08/Portfolio.git>

## **MICROSOFT AZURE**

<b>MODULE</b>	<b>DESCRIPTION</b>	<b>PAGE NUMBER</b>
1	CREATION OF VIRTUAL MACHINE	2
2	CONFIGURE GIT WITH NETWORK	2
3	CREATION OF STORAGE ACCOUNT	7
4	CREATION OF STATIC WEB APPS	8

## MODULE 1: CREATION OF VIRTUAL MACHINE

The screenshot shows the Microsoft Azure Education Overview page. The header includes the Microsoft Azure logo and a search bar. Below the header, there's a navigation bar with 'Home' and 'Education | Overview'. The main content area is divided into two sections: 'Overview' and 'Student offer details'. The 'Overview' section has links for 'Learning resources' and 'Need help?'. The 'Student offer details' section shows 'Available credits' as '\$100 out of \$100' and 'Days until credit expires' as '365', with an expiration date of '08/10/2025'. A 'View cost details' link is at the bottom.

Microsoft Azure

Search resources

Home >

Education | Overview

Get started Overview

Overview

> Learning resources

> Need help?

Student offer details

Available credits

**\$100 out of \$100**

Days until credit expires

**365**

Expires on 08/10/2025

View cost details

The screenshot shows the Microsoft Azure portal interface for a virtual machine named 'Nithu'. The left sidebar contains navigation options like 'Overview', 'Activity log', 'Access control (IAM)', 'Tags', 'Diagnose and solve problems', 'Connect', 'Networking', 'Settings', 'Disks', 'Extensions + applications', 'Operating system', 'Configuration', 'Advisor recommendations', 'Properties', 'Locks', 'Availability + scale', and 'Security'. The main content area is divided into 'Essentials' and 'Properties' sections. The 'Essentials' section shows details like 'Resource group (move) : MVM', 'Status : Running', 'Location : Central India (Zone 1)', 'Subscription (move) : Azure for Students', 'Subscription ID : 453901f2-ba7e-48d9-ad99-19f183293550', and 'Availability zone : 1'. The 'Properties' section shows details like 'Operating system : Linux (ubuntu 24.04)', 'Size : Standard D2s v3 (2 vcpus, 8 GiB memory)', 'Public IP address : 98.70.32.75', 'Virtual network/subnet : Nithu-vnet/default', 'DNS name : Not configured', 'Health state : -', and 'Time created : 8/10/2024, 4:30 AM UTC'. The 'Networking' section shows details like 'Public IP address : 98.70.32.75 ( Network interface nithu159\_x1 )', 'Public IP address (IPv6) : -', 'Private IP address : 10.0.0.4', 'Private IP address (IPv6) : -', 'Virtual network/subnet : Nithu-vnet/default', and 'DNS name : Configure'. An 'Activate Windows' watermark is visible in the bottom right corner.

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

nitharshanajai@gmail.c...  
DEFAULT DIRECTORY (NITHARSHANAJAI...)

Home >

Nithu  
Virtual machine

Search

Connect Start Restart Stop Hibernate Capture Delete Refresh Open in mobile Feedback CLI / PS

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Connect

Networking

Settings

Disks

Extensions + applications

Operating system

Configuration

Advisor recommendations

Properties

Locks

Availability + scale

Security

Essentials

Resource group (move) : MVM

Status : Running

Location : Central India (Zone 1)

Subscription (move) : Azure for Students

Subscription ID : 453901f2-ba7e-48d9-ad99-19f183293550

Availability zone : 1

Tags (edit) : Add tags

Properties Monitoring Capabilities (7) Recommendations Tutorials

Virtual machine

Computer name : Nithu

Operating system : Linux (ubuntu 24.04)

VM generation : V2

VM architecture : x64

Agent status : Ready

Agent version : 2.11.1.4

Hibernation : Disabled

Operating system : Linux (ubuntu 24.04)

Size : Standard D2s v3 (2 vcpus, 8 GiB memory)

Public IP address : 98.70.32.75

Virtual network/subnet : Nithu-vnet/default

DNS name : Not configured

Health state : -

Time created : 8/10/2024, 4:30 AM UTC

Networking

Public IP address : 98.70.32.75 ( Network interface nithu159\_x1 )

Public IP address (IPv6) : -

Private IP address : 10.0.0.4

Private IP address (IPv6) : -

Virtual network/subnet : Nithu-vnet/default

DNS name : Configure

Activate Windows  
Go to Settings to activate Windows.

Type here to search

13:06  
10-08-2024

## **MODULE 2: CONFIGURE GIT WITH NETWORK**

Requesting a Cloud Shell.Succeeded.

Connecting terminal...

Welcome to Azure Cloud Shell

Type "az" to use Azure CLI

Type "help" to learn about Cloud Shell

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

nitharshana [ ~ ]\$ ssh Nitharshana@98.70.32.75

The authenticity of host '98.70.32.75 (98.70.32.75)' can't be established.

ED25519 key fingerprint is SHA256:DPrd3XTOeaxr1GOydRKgADan7X9faklowqJPuwusPC0.

This key is not known by any other names

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

Warning: Permanently added '98.70.32.75' (ED25519) to the list of known hosts.

Nitharshana@98.70.32.75's password:

Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1012-azure x86\_64)

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

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

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

System information as of Sat Aug 10 05:27:53 UTC 2024

System load: 0.08            Processes:        123

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%

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`

Last login: Sat Aug 10 04:49:13 2024 from 4.188.107.221

Nitharshana@Nithu:~\$ `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]

Hit:3 <http://azure.archive.ubuntu.com/ubuntu> noble-backports InRelease

Hit:4 <http://azure.archive.ubuntu.com/ubuntu> noble-security InRelease

Fetch: 126 kB in 0s (281 kB/s)

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

All packages are up to date.

Nitharshana@Nithu:~\$ `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).

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

Nitharshana@Nithu:~\$ `sudo apt install nginx`

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

nginx is already the newest version (1.24.0-2ubuntu7).

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

```
Nitharshana@Nithu:~$ sudo systemctl start nginx
```

```
Nitharshana@Nithu:~$ 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

```
Nitharshana@Nithu:~$ cd /var/www/html
```

```
Nitharshana@Nithu:/var/www/html$ sudo rm -rf *
```

```
Nitharshana@Nithu:/var/www/html$ sudo git clone
```

```
https://github.com/NITHARSHANA08/Portfolio.git /var/www/html/Portfolio
```

Cloning into '/var/www/html/Portfolio'...

remote: Enumerating objects: 9, done.

remote: Counting objects: 100% (9/9), done.

remote: Compressing objects: 100% (8/8), done.

remote: Total 9 (delta 0), reused 0 (delta 0), pack-reused 0

Receiving objects: 100% (9/9), 4.96 KiB | 4.96 MiB/s, done.

```
Nitharshana@Nithu:/var/www/html$ cd /var/www/html/Portfolio
```

```
Nitharshana@Nithu:/var/www/html/Portfolio$ ls
```

index.html style.css

```
Nitharshana@Nithu:/var/www/html/Portfolio$ sudo nano index.html
```

```
Nitharshana@Nithu:/var/www/html/Portfolio$ sudo mv /var/www/html/Portfolio/index.html  
style.css/* /var/www/html/
```

mv: cannot stat 'style.css/\*': Not a directory

```
Nitharshana@Nithu:/var/www/html/Portfolio$ sudo mv /var/www/html/Portfolio/index.html/*  
/var/www/html/
```

mv: cannot stat '/var/www/html/Portfolio/index.html/\*': No such file or directory

```
Nitharshana@Nithu:/var/www/html/Portfolio$ sudo mv  
/var/www/html/Portfolio/.github/workflows/* /var/www/html/
```

```
Nitharshana@Nithu:/var/www/html/Portfolio$ 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: enabled)

Active: active (running) since Sat 2024-08-10 04:36:30 UTC; 59min ago

Docs: man:nginx(8)

Main PID: 2351 (nginx)

Tasks: 3 (limit: 9459)

Memory: 2.5M (peak: 3.0M)

CPU: 20ms

CGroup: /system.slice/nginx.service

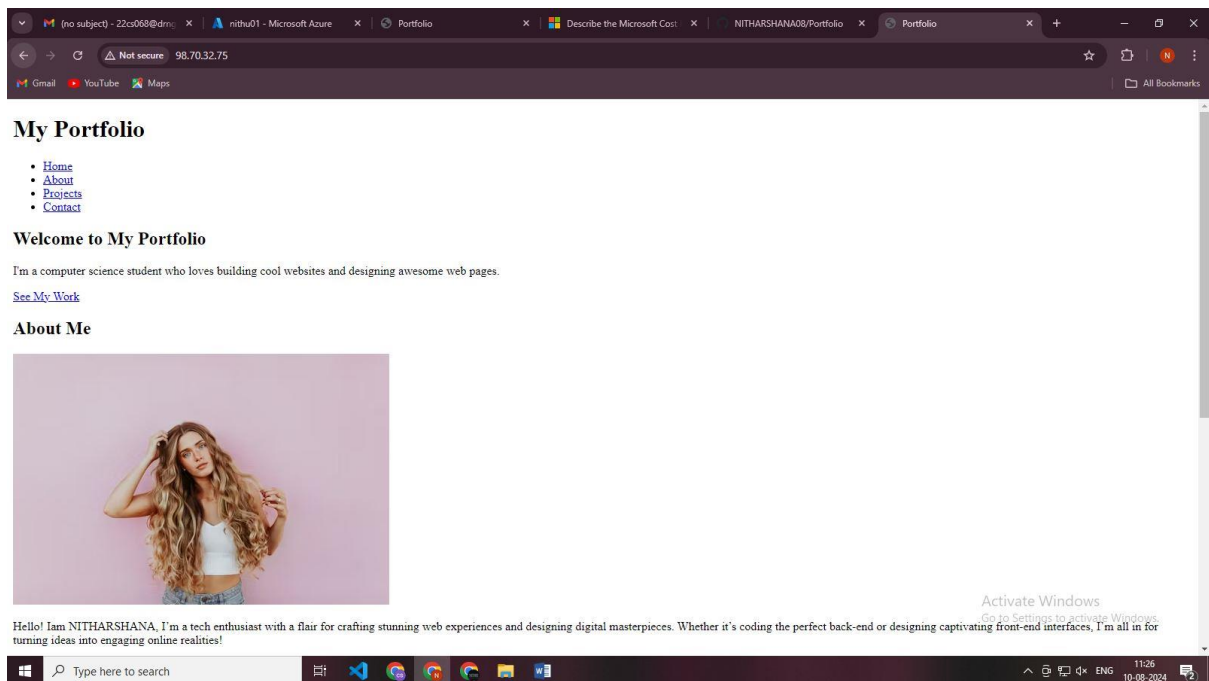
└─2351 "nginx: master process /usr/sbin/nginx -g daemon on; master\_process on;"

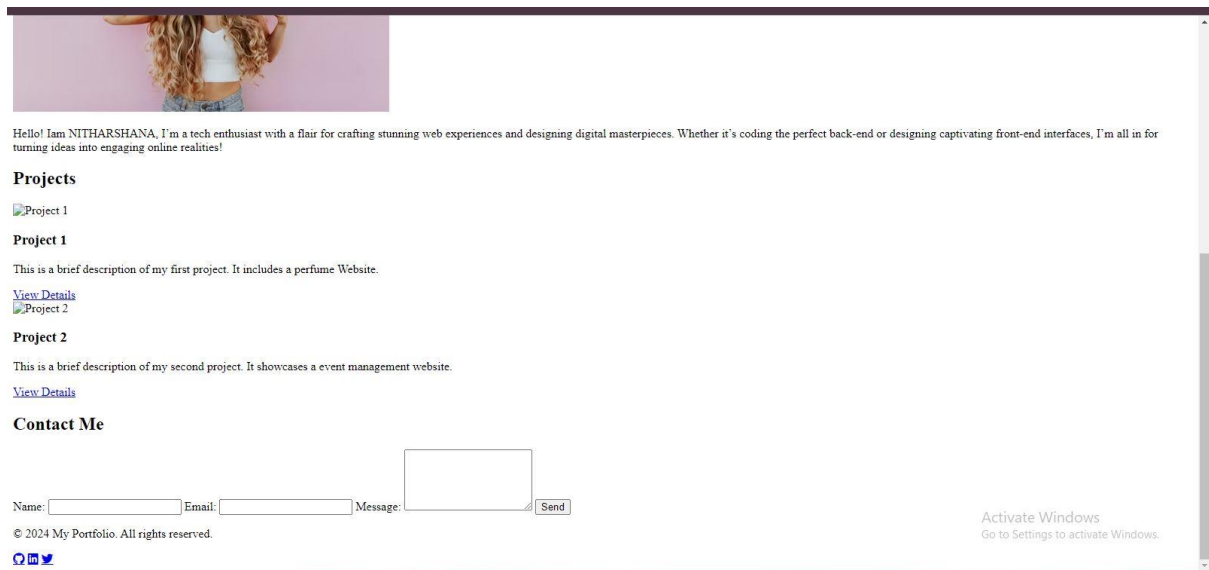
└─2352 "nginx: worker process"

└─2353 "nginx: worker process"

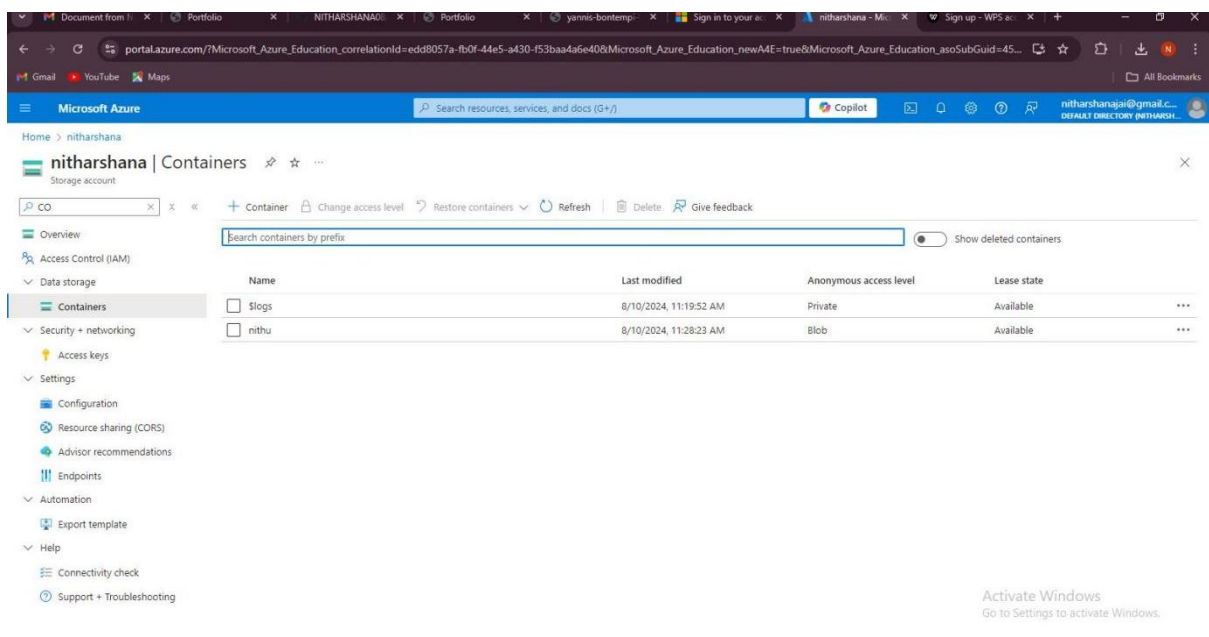
lines 1-12

## OUTPUT:



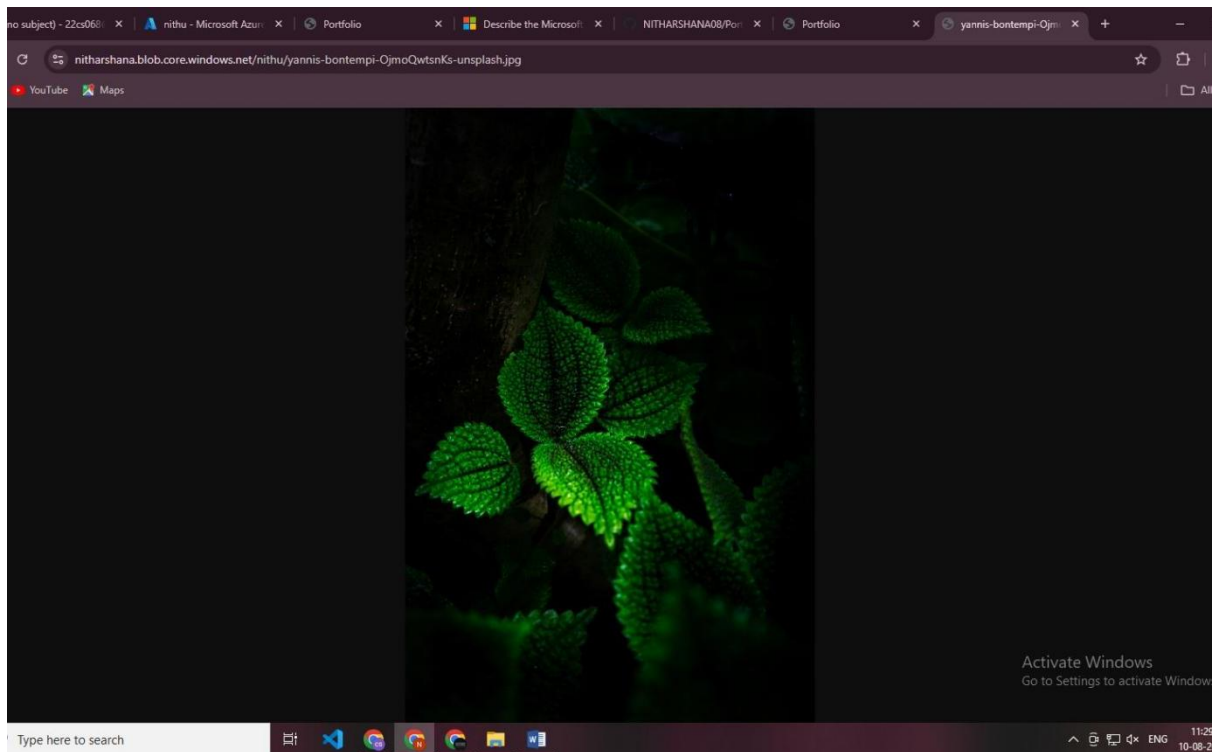


## **MODULE 3: CREATION OF STORAGE ACCOUNT**

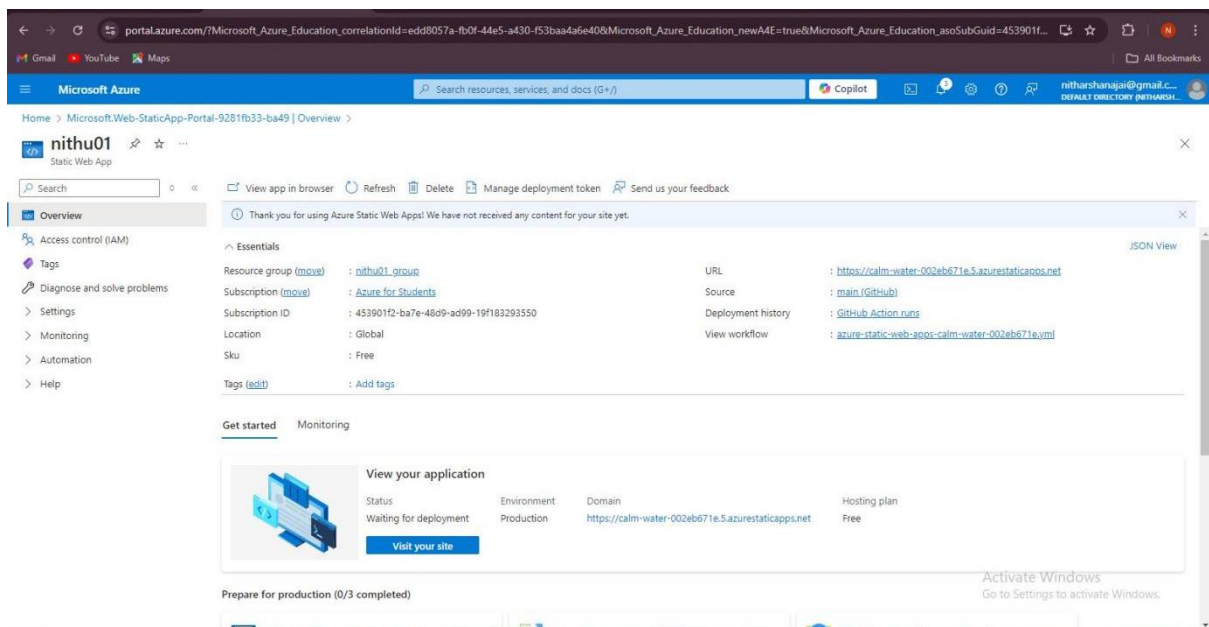


<https://nitharshana.blob.core.windows.net/nithu/yannis-bontempi-OjmoQwtsnKs-unsplash.jpg>

OUTPUT:



## MODULE 4: CREATION OF STATIC WEB APPS



<https://calm-water-002eb671e.5.azurestaticapps.net/>

OUTPUT:



