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AN AUTONOMOUS INSTITUTION

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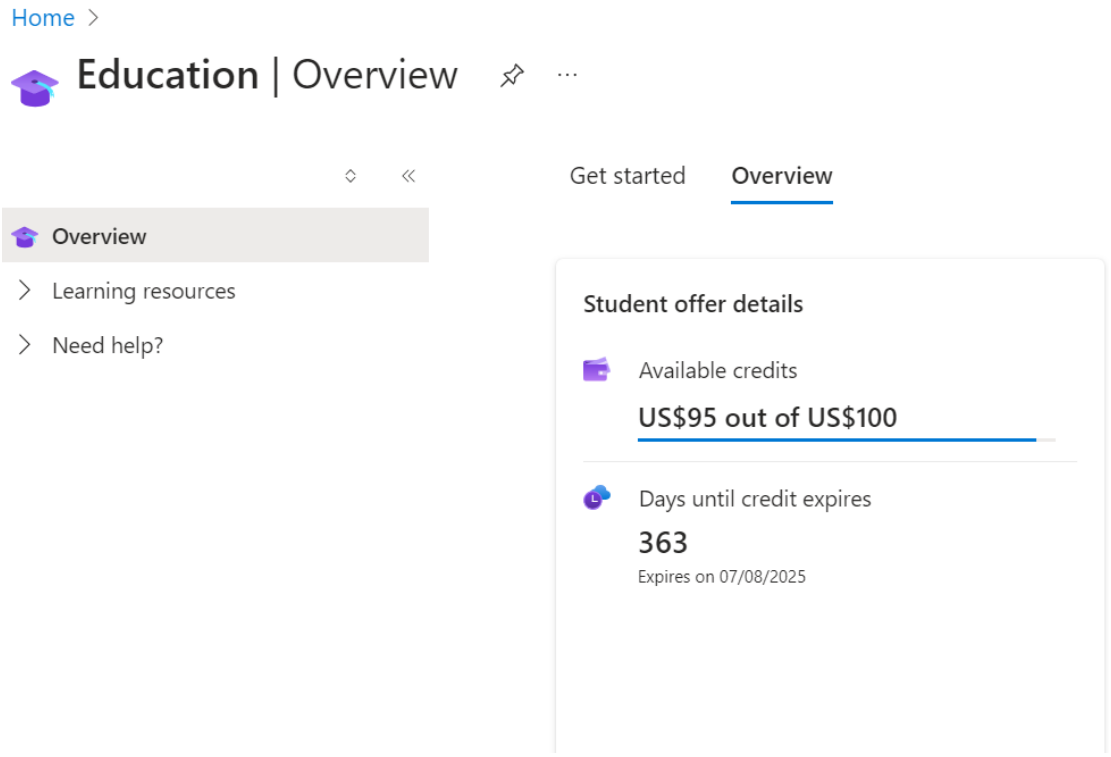
Class	**:**	III Year CSE A
Course Name	**:**	Microsoft azure Fundamentals
Company	**:**	Pinesphere Solution,Coimbatore
Start Date	**:**	06-08-2024
End Date	**:**	10-08-2024

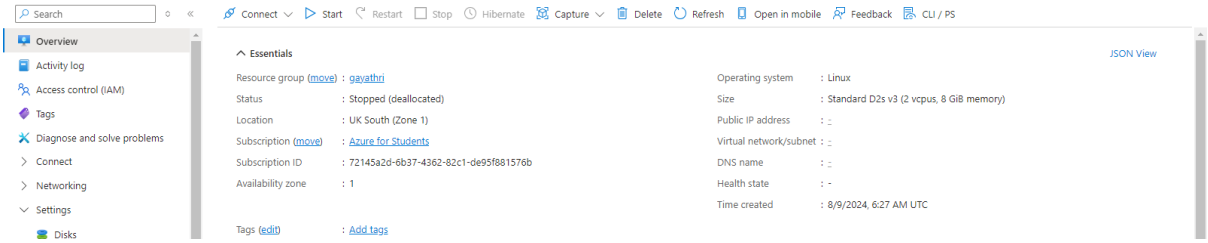
CREATING A VIRTUAL MACHINE (VM) IN MICROSOFT AZURE:

Creating A Virtual Machine (Vm) In Microsoft Azure Involves The Following Steps:

1. Sign in to the Azure portal.
2. Navigate to "Create a resource" and select "Virtual Machine."
3. Choose a subscription, resource group, and region.
4. Configure VM settings, including size, OS, and storage.
5. Set up networking, security, and management options.
6. Review and create the VM, then monitor its deployment.

The VM will be ready to use after deployment.





HOST A WEBSITE FROM GITHUB ON A VIRTUAL MACHINE (VM) IN MICROSOFT AZURE

COMMANDS

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.

gayathrishrivarsithaa2004 [~]$ ssh gayathri@20.0.112.43

The authenticity of host '20.0.112.43 (20.0.112.43)' can't be established.

ED25519 key fingerprint is SHA256:VaW2mliUF15cX1uQhhvL5GtoTYK76DirfgDefuHUrDI.

This key is not known by any other names

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

Warning: Permanently added '20.0.112.43' (ED25519) to the list of known hosts.

gayathri@20.62.43.159'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 15:30:55 UTC 2024

System load: 0.08 Processes: 135

Usage of /: 5.8% of 28.02GB Users logged in: 0

Memory usage: 1% 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.

13 updates can be applied immediately.

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 9 03:55:27 2024 from 20.235.219.140

gayathri@VM:~$ 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

Get:5 http://azure.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [5716 B]

Get:6 http://azure.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [12.7 kB]

Fetched 145 kB in 0s (319 kB/s)

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

9 packages can be upgraded. Run 'apt list --upgradable' to see them.

gayathri@VM:~$ sudo apt instal git

E: Invalid operation instal

gayathri@VM:~$ 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 9 not upgraded.

gayathri@VM:~$ 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 9 not upgraded.

gayathri@VM:~$ sudo systemctl start nginx

gayathri@VM:~$ 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

gayathri@VM:~$ cd /var/www/html

gayathri@VM:/var/www/html$ sudo rm -rf *

gayathri@VM:/var/www/html$ sudo git clone https://github.com/GAYATHRISHRIVARSITHAA/repo.git .

fatal: destination path '.' already exists and is not an empty directory.

deepthi@VM:/var/www/html$ sudo git cone https://github.com/GAYATHRISHRIVARSITHAA/repo.git

Cloning into 'resume'...

remote: Enumerating objects: 90, done.

remote: Counting objects: 100% (90/90), done.

remote: Compressing objects: 100% (88/88), done.

remote: Total 90 (delta 4), reused 0 (delta 0), pack-reused 0

Receiving objects: 100% (90/90), 818.23 KiB | 8.43 MiB/s, done.

Resolving deltas: 100% (4/4), done.

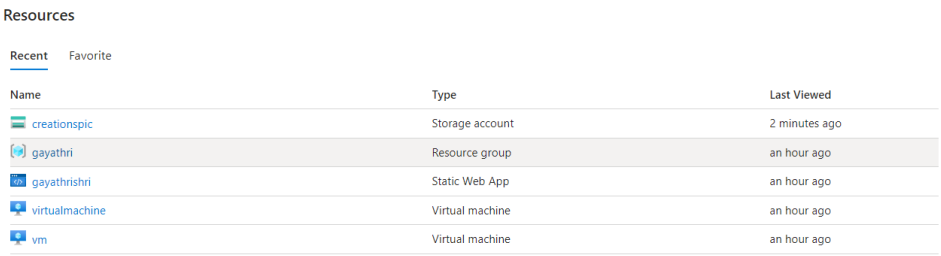
gayathri@VM:/var/www/html$ sudo chown -R www-data:www-data /var/www/html

gayathri@VM:/var/www/html$

CREATION OF STORAGE ACCOUNT IN MICROSOFT:

To Create A Storage Account In Microsoft Azure, Follow These Steps:

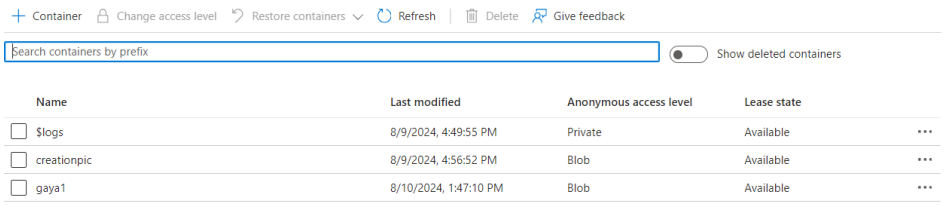
1. Sign in to Azure Portal.
2. Create a Resourc
3. Configure the Basics
4. Set Advanced Options
5. Review and Create
6. Access the Storage Account
7. After deployment, access the storage account to manage containers, blobs, files, tables, or queues.



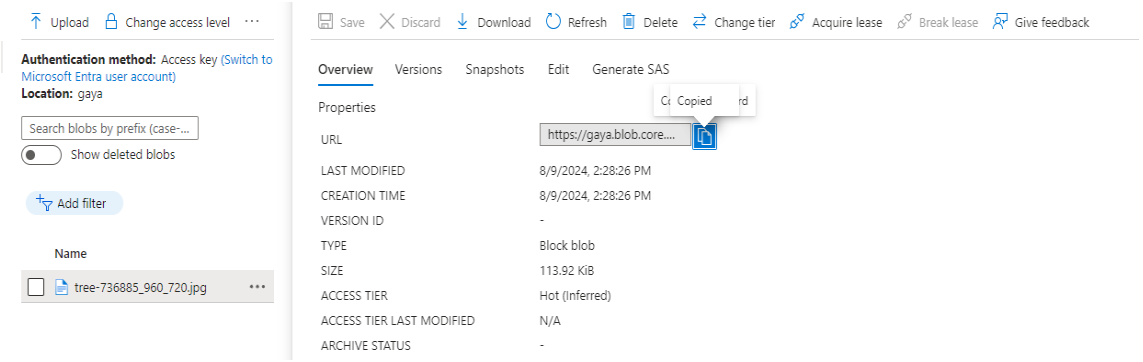
MANAGING OF STORAGE ACCOUNT

To Upload An Image Into A Container In An Azure Storage Account, Follow These Steps:

1. Access the Storage Account: Sign in to the Azure portal and navigate to your Storage Account.
2. Create a Container: In the Storage Account, select "Containers" and click "Add Container." Name the container and set the access level (private, blob, or container).
3. Open the Container: Once created, click on the container to open it.
4. Upload the Image: Click the "Upload" button within the container. In the upload window, browse your local machine to select the image file.
5. Configure Upload Settings: Optional - You can set advanced upload options like overwriting existing files, setting metadata, or assigning blob tier.
6. Start the Upload: Click "Upload" to start the process. Once the upload is complete, your image will be stored in the container and accessible based on the access level you set.



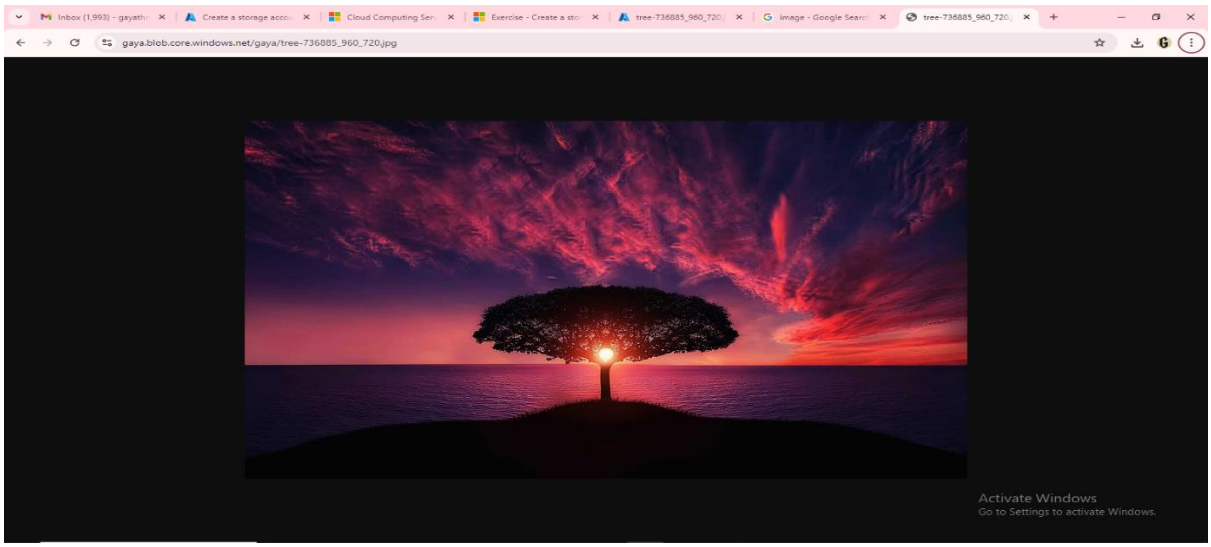
AFTER UPLOADED THE IMAGE :



URL PATH OF IMAGE :

https://gaya.blob.core.windows.net/gaya/tree-736885_960_720.jpg

OUTPUT :



STATIC WEB PAGE :

Deploying a Static Web Page on Azure

Using Azure Static Web App:

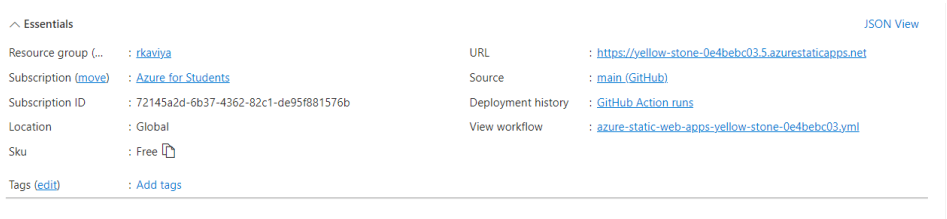
Prepare Your Site: Develop your static site and push it to a GitHub repository.

Set Up Azure Static Web Apps:

1. Sign in to Azure Portal.
2. Click **Create a resource** > **Static Web Apps**.
3. Connect to your GitHub repo and branch.

Deploy and Access:

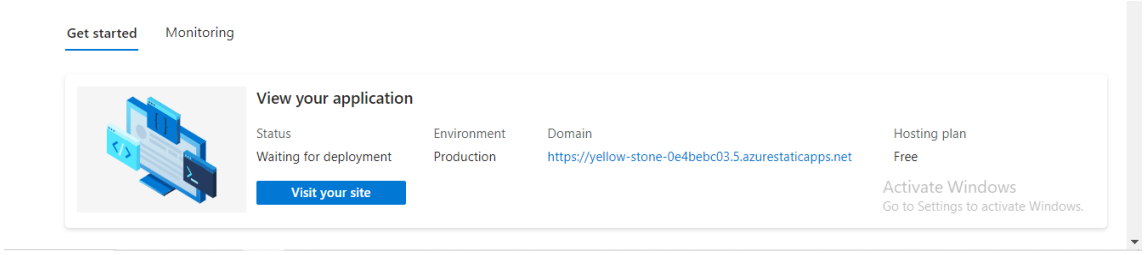
1. Azure deploys your site automatically.
2. Access it via the provided URL.



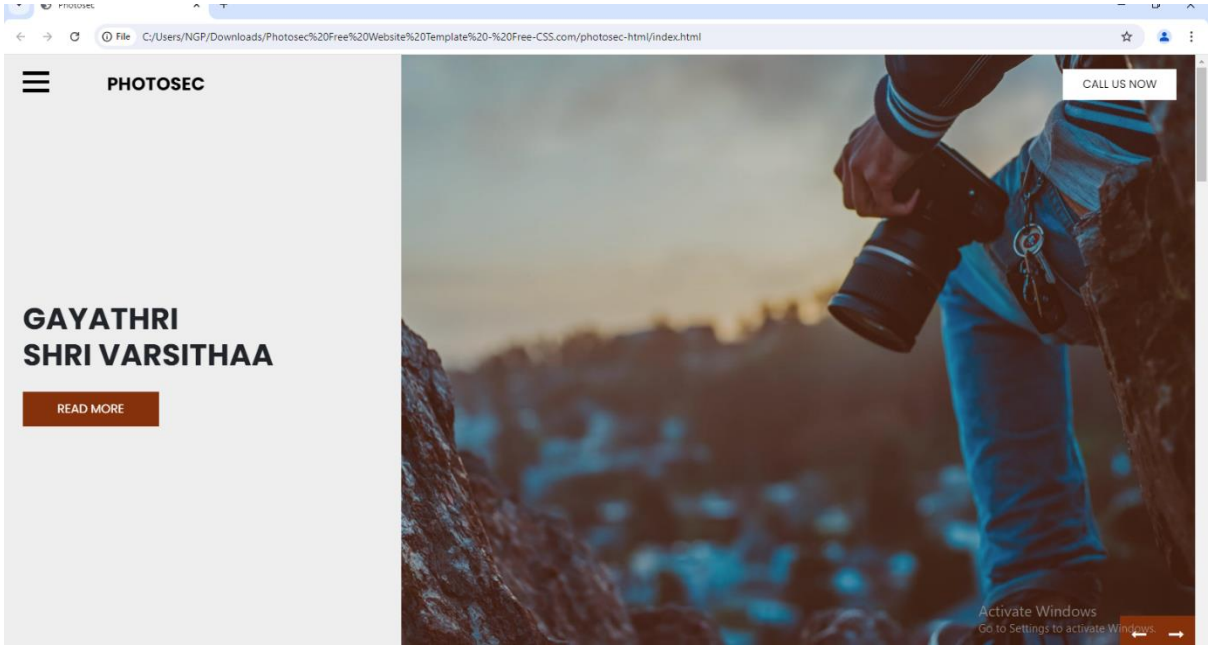
Access Your GitHub Pages Site :

Visit Your Site:

Open a web browser and navigate to https://github.com/GAYATHRISHRIVARSITHAA/repo.git You should see your static web page displayed.



OUTPUT :


C:/Users/NGP/Downloads/Photosec%20Free%20Website%20Template%20-%20Free-CSS.com/photosec-html/index.html
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SHRI VARSITHAA
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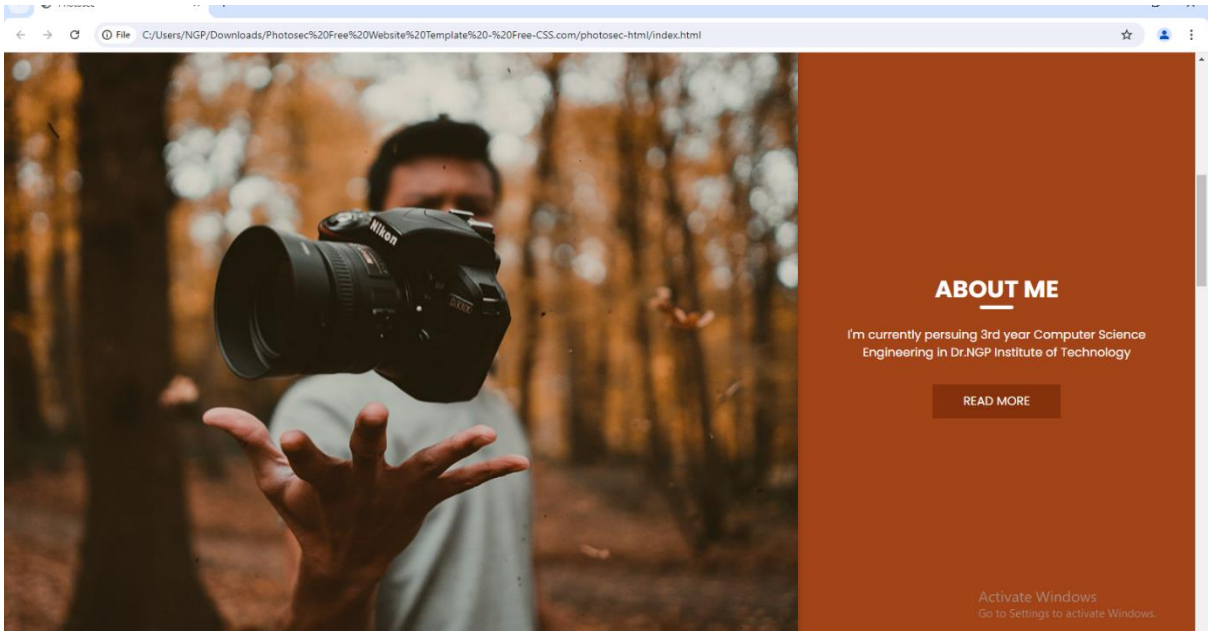
Activate Windows
Go to Settings to activate Windows.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