



Dr. N.G.P INSTITUTE OF TECHNOLOGY, COIMBATORE - 641048
AN AUTONOMOUS INSTITUTION



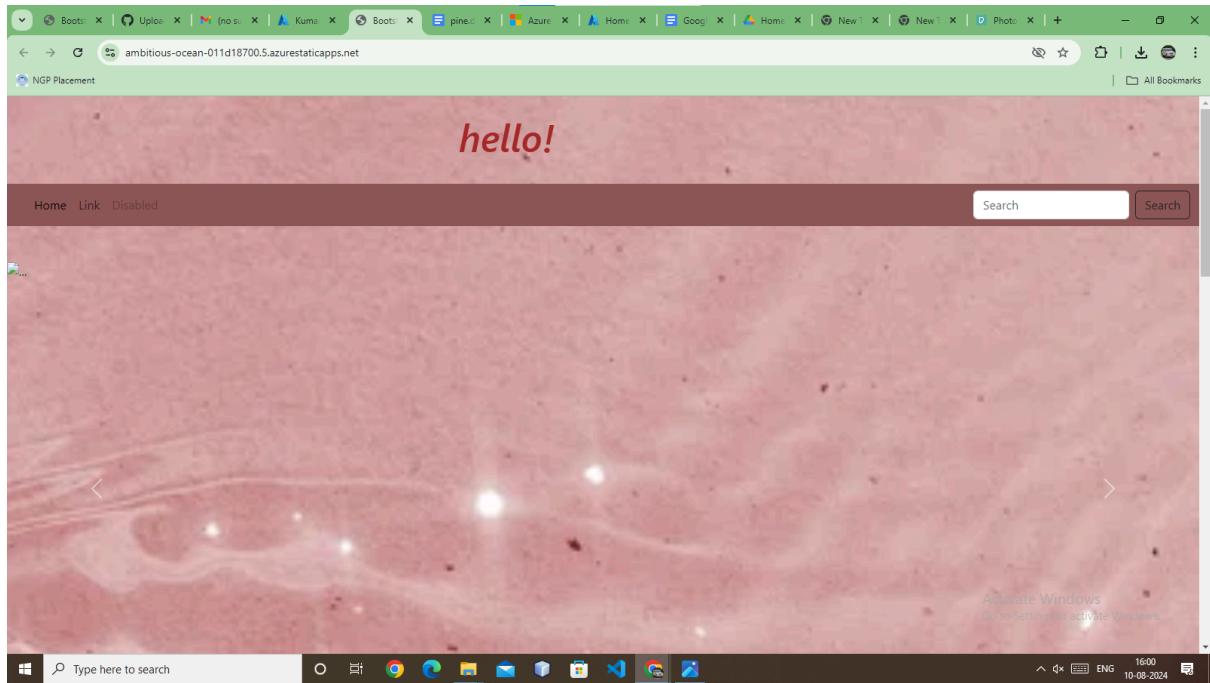
Reg No : 710722104052
Name : KUMARESH.C
Class : III Year CSE A
Start Date : 06.08.2024
End Date : 10.08.2024
Git URL :[https://github.com/harshinimaniyan/
Sample-resume.git](https://github.com/harshinimaniyan/Sample-resume.git)
Course Name : Microsoft azure Fundamentals
Company : Pinesphere Solution,Coimbatore

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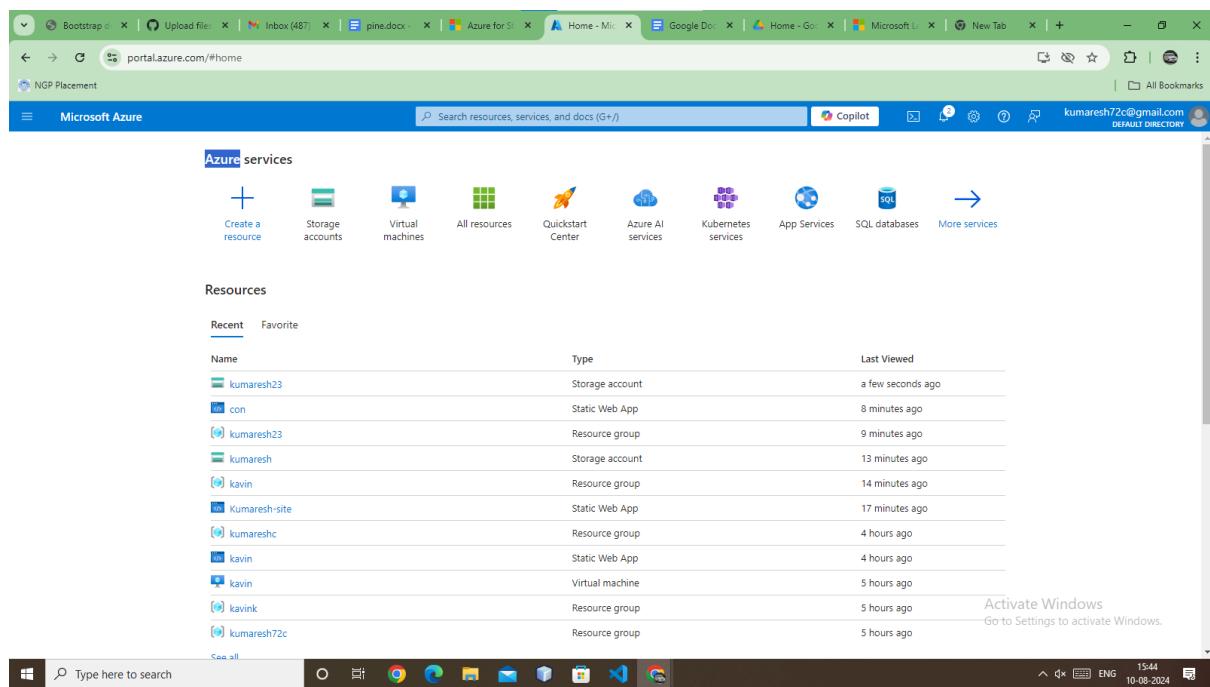
WEBSITE CREATION:

This project is a personal profile website developed using HTML, CSS, SCSS, and JavaScript. It features a responsive design, ensuring optimal viewing on all devices, and includes interactive elements like smooth scrolling and form validation. The SCSS is structured with variables for maintainability, while JavaScript enhances user experience with dynamic content. The website is cross-browser compatible, modular, and ready for deployment on any web hosting platform.



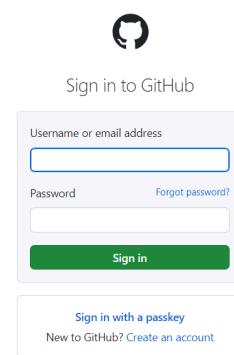
MICROSOFT ACCOUNT CREATION:

A Microsoft account is your gateway to accessing a variety of Microsoft services, including Outlook, OneDrive, Office Online, and more. By creating a Microsoft account, you gain a single sign-in that connects you to these services seamlessly, whether you're managing emails, storing files in the cloud, or collaborating on documents. Your account also allows you to personalize your Windows experience, sync settings across devices, and access your favorite apps and games through the Microsoft Store. Security is a priority, with features like multi-factor authentication and account recovery options to keep your information safe. With a Microsoft account, you can easily manage your digital life across all your devices, ensuring that everything you need is just a click away.

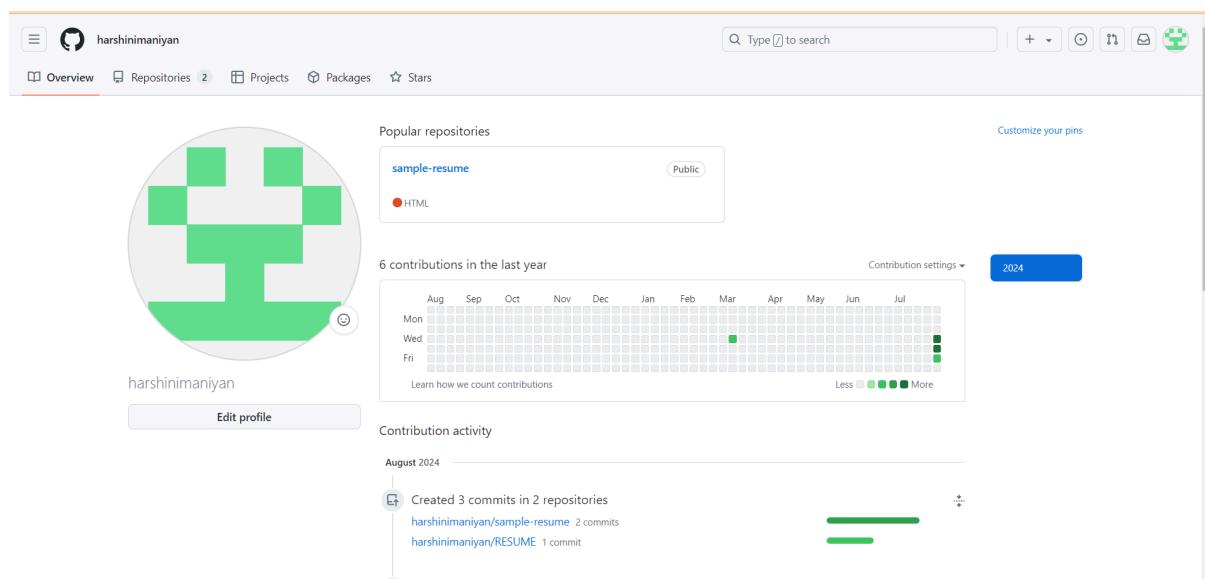


GIT HUB CREATION:

A GitHub account lets you host and manage code repositories, collaborate with developers, and contribute to open-source projects. It offers version control, project management tools, and the ability to showcase your work to the global developer community. GitHub also allows you to explore and contribute to millions of projects, enhancing your skills and visibility. With features like private repositories and GitHub Pages, it's an essential tool for any developer. This Is my Repository named Profile and my GIT-URL is <https://github.com/harshinimaniyan/Sample-resume.git>



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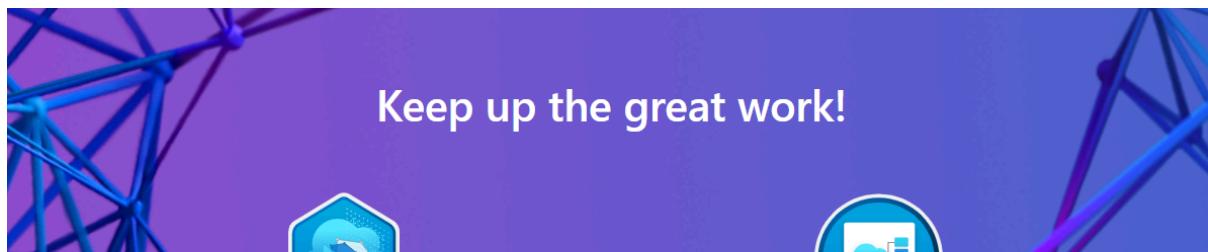


MICROSOFT MODULE COMPLETION:

Having completed the Microsoft Azure Fundamentals modules, you now understand core cloud concepts and service types, including IaaS, PaaS, and SaaS. You've explored cloud computing's benefits, such as flexibility and scalability. In Azure, you learned about compute services like virtual machines and serverless functions, and networking services such as Virtual Networks and Load Balancer. This knowledge provides a strong foundation for leveraging Azure's capabilities in cloud-based solutions.

Modules are :

- Microsoft Azure Fundamentals: Describe cloud concepts
- Describe cloud service types
- Describe cloud computing
- Describe Azure compute and networking services

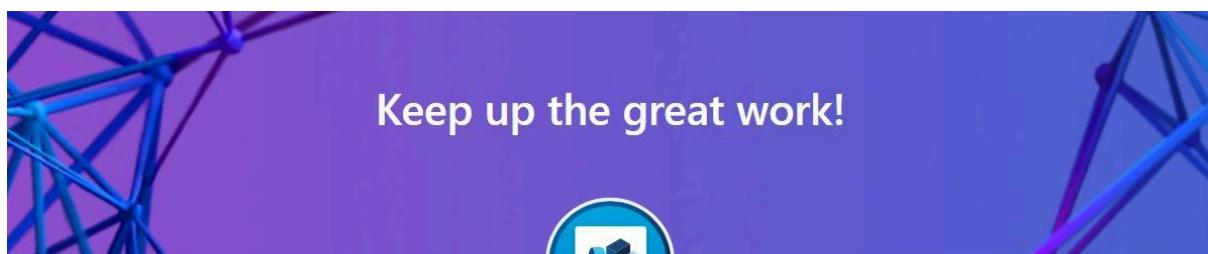


Microsoft Azure Fundamentals:
Describe cloud concepts

Describe cloud service types

You have earned 2 achievements!

Congratulations, but what should you do next?



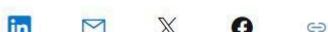
Describe Azure storage
services

You have earned an achievement!

Congratulations, but what should you do next?

First, let's share your achievement

You put in the time to learn something new, let your network share in your victory!



CREATING A VIRTUAL MACHINE (VM) IN MICROSOFT AZURE:

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

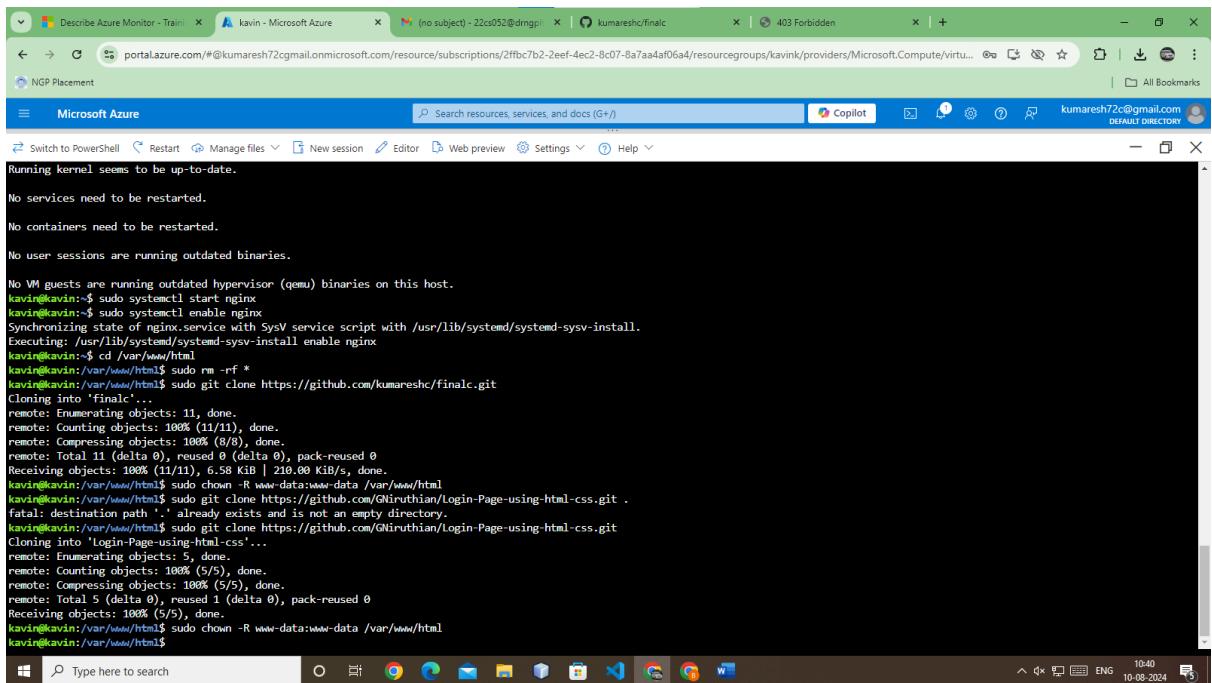
1. Sign in to the Azure portal.
2. Navigate to "Create a resource" and select "Virtual Machine."
3. Choose a subscription, resource group, and region.
4. Configure VM settings, including size, OS, and storage.
5. Set up networking, security, and management options.
6. Review and create the VM, then monitor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

The VM will be ready to use after deployment.

This screenshot shows the Microsoft Azure Education Overview page. At the top, there's a navigation bar with tabs like 'Home', 'Overview', 'Get started', and 'Popular solutions'. Below the navigation bar, there are several sections: 'Student offer details' showing '\$95 out of \$100' available credits, 'Days until credit expires' (362), and 'View cost details'; 'Popular solutions' including 'Deploy a Docker container', 'Create your first Node.js app', 'Create and train a Machine Learning model', 'Build and deploy your first website', and 'Explore all'; 'Free Services' including 'Azure Virtual Machines – Windows', 'Azure Blob Storage', 'Computer Vision', 'Azure App Service', and 'Explore all'; 'Free software' including 'SQL Server 2019 Developer', 'Machine Learning Server 9.4.7 for Windows', and 'Microsoft R Client 9.4.7'; 'Free learning paths' including 'Data Scientist', 'AI Engineer', and 'Explore all'; and 'Resources' including 'Get started guide for Azure developers', 'Pricing calculator', and 'Activate Windows'. The bottom of the screen shows the Windows taskbar with various pinned icons and a search bar.

This screenshot shows the Microsoft Azure VM Overview page for a virtual machine named 'vm'. The left sidebar has a 'Virtual machine' section with options like 'Connect', 'Start', 'Stop', 'Hibernate', 'Capture', 'Delete', 'Refresh', 'Open in mobile', 'Feedback', and 'CLI / PS'. The main area has tabs for 'Overview', 'Essentials', 'Properties', 'Monitoring', 'Capabilities (7)', 'Recommendations', and 'Tutorials'. The 'Essentials' tab displays detailed information about the VM, including its resource group ('vm_group'), status ('Running'), location ('Central India (Zone 1)'), subscription ('Azure for Students'), subscription ID ('2ffbc7b2-2eef-4ec2-8c07-8a7aa4af06a4'), availability zone ('1'), and tags ('Tags (edit) : Add tags'). It also lists operating system ('Linux (ubuntu 24.04)'), size ('Standard D2s v3 (2 vcpus, 8 GiB memory)'), public IP address ('20.244.110.102'), virtual network/subnet ('vm-vnet/default'), DNS name ('Not configured'), health state ('-'), and time created ('8/8/2024, 4:17 AM UTC'). The 'Properties' tab shows the VM's configuration: Computer name ('vm'), Operating system ('Linux (ubuntu 24.04)'), VM generation ('V2'), VM architecture ('x64'), Agent status ('Ready'), Agent version ('2.11.14'), and Hibernation ('Disabled'). The 'Networking' tab shows the network interface: Public IP address ('20.244.110.102 (Network interface vm429_z1)'), Private IP address ('-'), Private IP address (IPv6) ('-'), Virtual network/subnet ('vm-vnet/default'), and DNS name ('Configure').

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

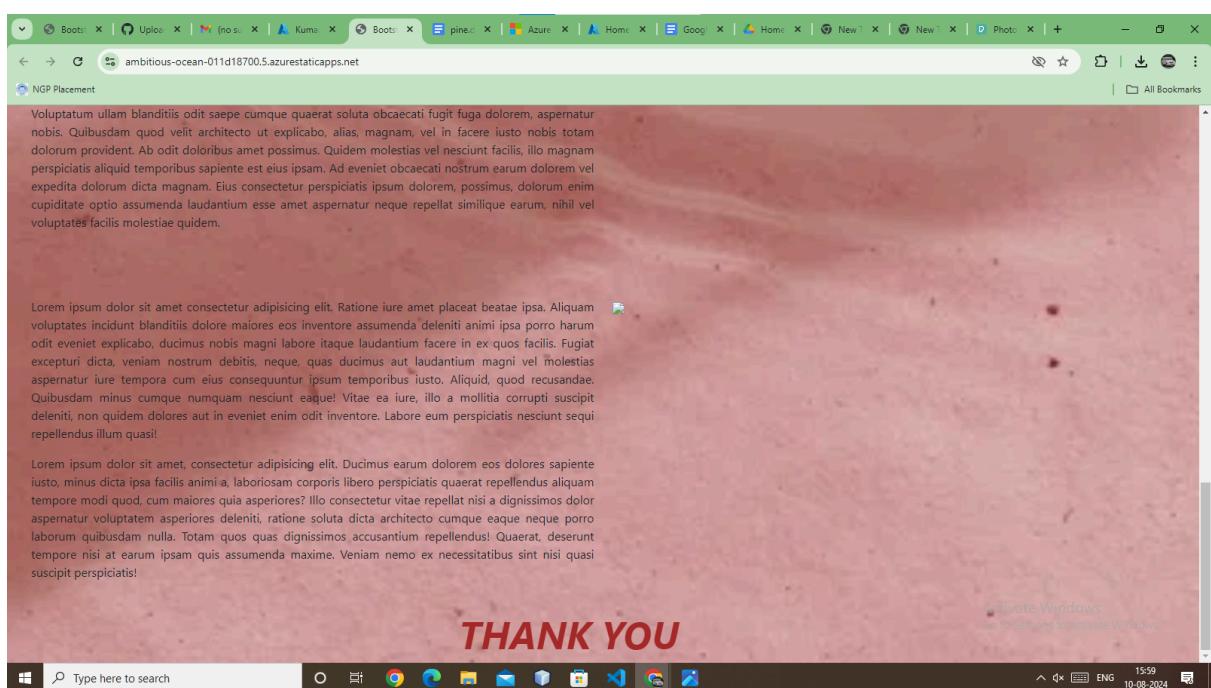


The screenshot shows a Windows desktop environment. At the top, there are several browser tabs open, including 'Describe Azure Monitor - Train', 'kavin - Microsoft Azure', '(no subject) - 22cs052@dmgpl', and 'kumareshc/finalc'. Below the tabs is the Microsoft Azure portal interface. The main content area of the portal displays a terminal session with the following command-line output:

```
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.
kavin@kavin:~$ sudo systemctl start nginx
kavin@kavin:~$ 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
kavin@kavin:~$ cd /var/www/html
kavin@kavin:/var/www/html$ sudo rm -rf *
kavin@kavin:/var/www/html$ sudo git clone https://github.com/kumareshc/finalc.git
Cloning into 'finalc'...
remote: Enumerating objects: 11, done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 11 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (11/11), 6.58 KiB | 210.00 KiB/s, done.
kavin@kavin:/var/www/html$ sudo chown -R www-data:www-data /var/www/html
kavin@kavin:/var/www/html$ sudo git clone https://github.com/QNiruthian/Login-Page-using-html-css.git .
fatal: destination path '.' already exists and is not an empty directory.
kavin@kavin:/var/www/html$ sudo git clone https://github.com/QNiruthian/Login-Page-using-html-css.git
Cloning into 'Login-Page-using-html-css'...
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 5 (delta 0), reused 1 (delta 0), pack-reused 0
Receiving objects: 100% (5/5), done.
kavin@kavin:/var/www/html$ sudo chown -R www-data:www-data /var/www/html
kavin@kavin:/var/www/html$
```

OUTPUT:



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 Resource
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.

- Upload the Image: Click the "Upload" button within the container. In the upload window, browse your local machine to select the image file.
- Configure Upload Settings: Optional - You can set advanced upload options like overwriting existing files, setting metadata, or assigning blob tier.
- 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.

Kumaresh-site | Locks

Lock name	Lock type	Scope	Notes
kumaresh	Read-only	Kumaresh-site	

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
IMG_20240807_141208.jpg	8/9/2024, 2:04:43 PM	Hot (Inferred)		Block blob	1.22 MiB	Available

AFTER UPLOADED THE IMAGE :

Home > harshinimaniyan >

harshinimaniyan Container

Search Upload Change access level ...

Authentication method: Access key (Switch to Microsoft Entra user account)

Location: harshinimaniyan

Overview Diagnose and solve problems Access Control (IAM) Settings

Search blobs by prefix (case...) Show deleted blobs Add filter

Name: IMG_20240807_141208.jpg

IMG_20240807_141208.jpg ...

blob

Save Discard Download Refresh Delete Change tier Acquire lease Break lease Give feedback

Properties

URL	https://harshinimaniyan...
LAST MODIFIED	8/9/2024, 2:04:43 PM
CREATION TIME	8/9/2024, 2:04:43 PM
VERSION ID	
TYPE	Block blob
SIZE	1.22 MiB
ACCESS TIER	Hot (Inferred)
ACCESS TIER LAST MODIFIED	N/A
ARCHIVE STATUS	-
REHYDRATE PRIORITY	-
SERVER ENCRYPTED	true
ETAG	0x8DCB84E1E21D896
VERSION-LEVEL IMMUTABILITY POLICY	Disabled
CACHE-CONTROL	
CONTENT-TYPE	image/jpeg
CONTENT-MDS	9tVQzP6xN7bldp4/XV2g==
CONTENT ENCODING	

URL PATH OF IMAGE :

<https://www.pexels.com/photo/photo-of-audi-parked-near-trees-1402787/>

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.

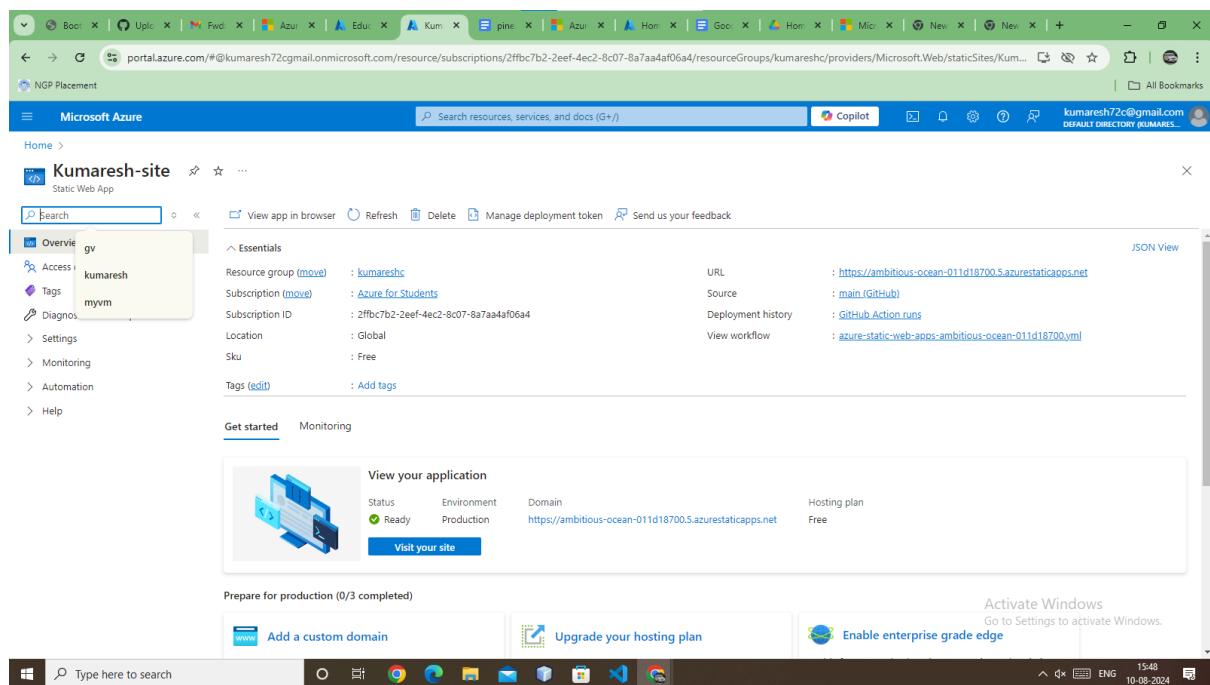
Set Up Azure Static Web Apps:

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.

(<https://white-plant-0c50b3f10.5.azurestaticapps.net>)

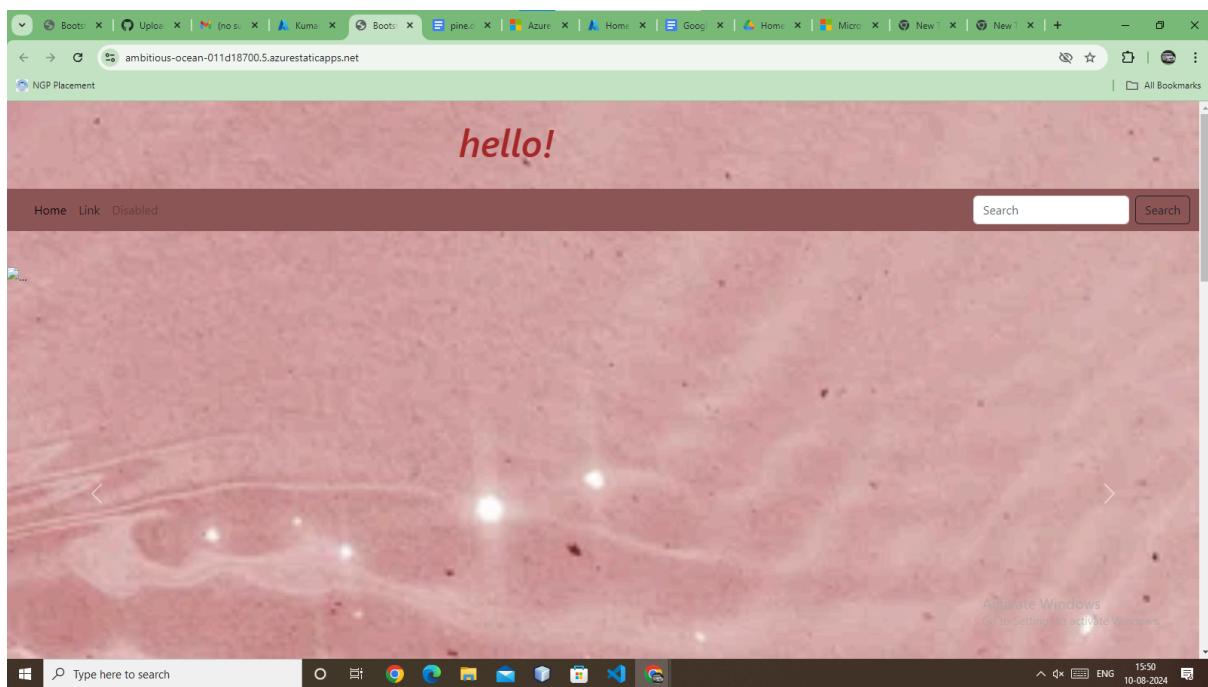


Access Your GitHub Pages Site :

Visit Your Site:

Open a web browser and navigate to <https://github.com/harshinimaniyan/sample-resume.git> You should see your static web page displayed.

OUTPUT:



STORAGE ACCOUNT LOCK :

A storage account lock for containers has been created to enhance data security and prevent accidental deletion or modifications. This lock ensures that all containers within the storage account are protected, providing an additional layer of control. With this feature, only authorized users can make changes, reducing the risk of data loss. It's a crucial step in maintaining the integrity and reliability of the storage account in Microsoft Azure.

OUTPUT:

The screenshot shows the Microsoft Azure portal interface. The URL in the address bar is `portal.azure.com/#@kumaresh72c@gmail.com/resource/subscriptions/2ffbc7b2-2eef-4ec2-8c07-8a7aa4af06a4/resourceGroups/kumareshc/providers/Microsoft.Web/staticSite...` . The page title is "Microsoft Azure" and the sub-page title is "Kumaresh-site | Locks". There is a search bar at the top right. Below the title, there are buttons for "LOCK", "Add", "Resource group", "Subscription", "Refresh", and "Feedback". A sidebar on the left has "Settings" and "Locks" sections. The main content area displays a table with columns: Lock name, Lock type, Scope, and Notes. One row is shown: "kumaresh", "Read-only", "Kumaresh-site", and an empty notes field. At the bottom right of the table are "Edit" and "Delete" buttons.



This screenshot shows the Microsoft Azure portal on a Windows desktop. The URL is `portal.azure.com/#view/Microsoft_Azure_Storage/ContainerMenuBlade/~/overview/storageAccountId/%2Fsubscriptions%2F2ffbc7b2-2eef-4ec2-8c07-8a7aa4af06a4%2FresourceGroups%2Fkav...` . The page title is "Microsoft Azure" and the sub-page title is "kumaresh23". The left sidebar includes "Overview", "Diagnose and solve problems", "Access Control (IAM)", and "Settings". The main content area has a search bar and several action buttons: "Upload", "Change access level", "Refresh", "Delete", "Change tier", "Acquire lease", "Break lease", "View snapshots", "Create snapshot", and "Give feedback". A prominent red error message box states: "You do not have permissions to use the access key to list data. Click to learn more about authenticating with Azure Storage. The scope '/subscriptions/2ffbc7b2-2eef-4ec2-8c07-8a7aa4af06a4/resourceGroups/kavin/providers/Microsoft.Storage/storageAccounts/kumaresh23' cannot perform write operation because following scope(s) are locked: '/subscriptions/2ffbc7b2-2eef-4ec2-8c07-8a7aa4af06a4/resourceGroups/kavin/providers/Microsoft.Storage/storageAccounts/kumaresh23'. Please remove the lock and try again." Below this, there is an "Authentication method: Access key (Switch to Microsoft Entra user account)" section and a "Location:" dropdown. At the bottom, there is a search bar for blobs and a table with columns: Name, Modified, Access tier, Archive status, Blob type, Size, and Lease state. The table shows "No results".

