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AN AUTONOMOUS INSTITUTION



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Github URL : <https://github.com/KAVIYA045/BLASTER.git>

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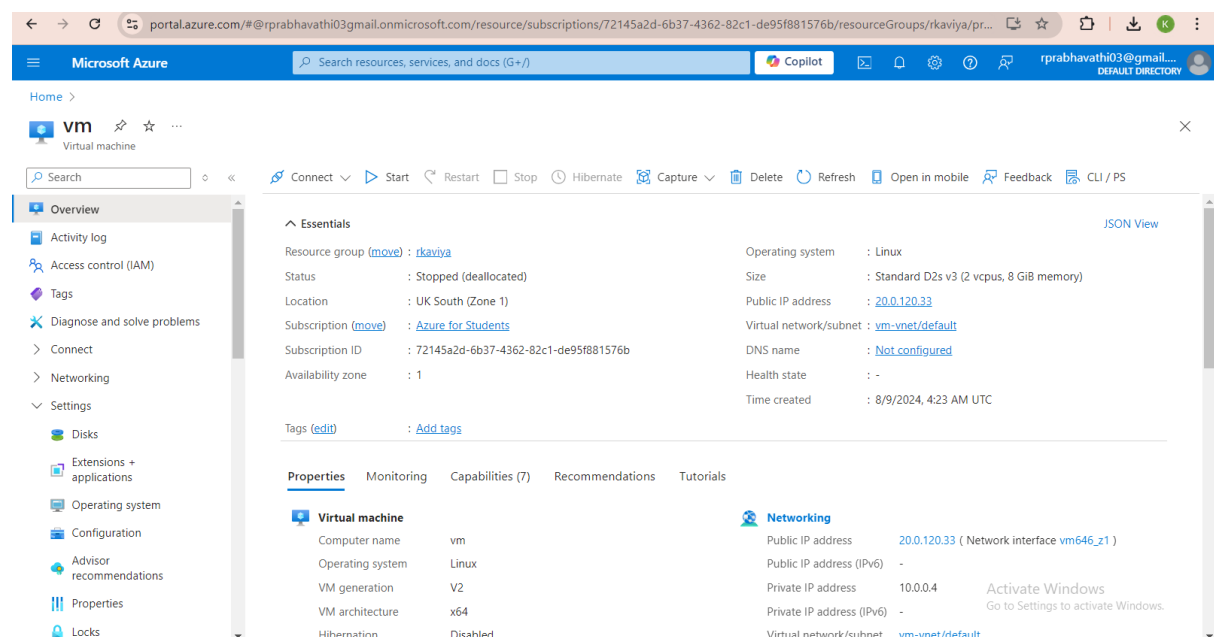
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CREATING A VIRTUAL MACHINE (VM) IN MICROSOFT AZURE:

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

1. **Set Up the VM:** Ensure your Azure VM is running and accessible via SSH or RDP. Install a web server like Apache or Nginx on the VM.
2. **Clone the GitHub Repository:** SSH into the VM and clone your website's repository from GitHub using `git clone <repository-url>`.
3. **Deploy the Website:** Move the cloned repository to the web server's root directory, typically `/var/www/html` for Apache or the appropriate directory for Nginx.
4. **Configure the Web Server:** Update the web server configuration files to serve your website. Restart the server to apply changes.
5. **Open Ports:** Ensure that the necessary ports (e.g., port 80 for HTTP) are open in the Azure network security group settings to allow web traffic.
6. **Access the Website:** Access your website by entering the VM's public IP address or domain name in a web browser.

COMMANDS

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.

rkaviya@vm:~\$ ssh rkaviya@20.0.120.33

The authenticity of host '20.0.120.33 (20.0.120.33)' can't be established.

ED25519 key fingerprint is SHA256:fkVZDajQY6+H7Ahx80gIdE+N9zQmTUTcGX+Q/8qWXgs.

This key is not known by any other names

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

Warning: Permanently added '20.0.120.33' (ED25519) to the list of known hosts.

rkaviya@20.0.120.33'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 Sat Aug 10 05:53:54 UTC 2024

System load: 1.36 Processes: 138
Usage of /: 5.9% 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.

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 06:33:55 2024 from 4.224.160.2

rkaviya@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 Packages [344 kB]

Get:6 <http://azure.archive.ubuntu.com/ubuntu> noble-updates/main amd64 c-n-f Metadata [5716 B]

Get:7 <http://azure.archive.ubuntu.com/ubuntu> noble-updates/universe amd64 Packages [321 kB]

Get:8 <http://azure.archive.ubuntu.com/ubuntu> noble-updates/universe amd64 c-n-f Metadata [12.7 kB]

Fetches 809 kB in 1s (1425 kB/s)

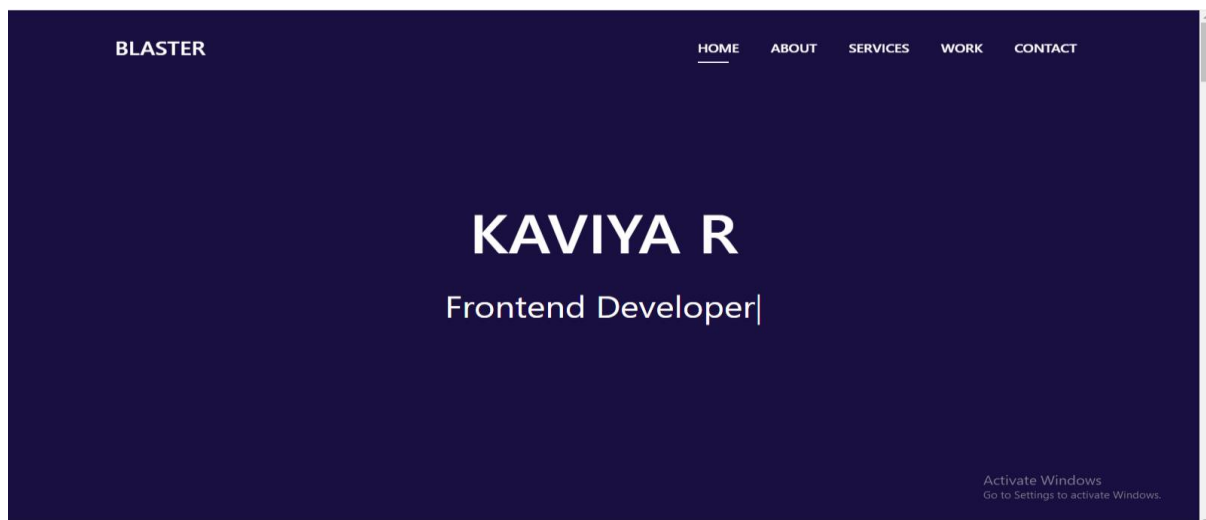
```
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
9 packages can be upgraded. Run 'apt list --upgradable' to see them.
rkaviya@vm:~$ sudo apt install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.43.0-1ubuntu7.1).
0 upgraded, 0 newly installed, 0 to remove and 9 not upgraded.
rkaviya@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.
rkaviya@vm:~$ sudo systemctl start nginx
rkaviya@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
rkaviya@vm:~$ cd /var/www/html
rkaviya@vm:/var/www/html$ sudo rm -rf *
rkaviya@vm:/var/www/html$ sudo git clone https://github.com/KAVIYA045/BLASTER.git .
fatal: destination path '.' already exists and is not an empty directory.
rkaviya@vm:/var/www/html$ cd /var/www
rkaviya@vm:/var/www$ sudo rm -rf *
rkaviya@vm:/var/www$ sudo mkdir -p html
rkaviya@vm:/var/www$ cd html
rkaviya@vm:/var/www/html$ https://github.com/KAVIYA045/BLASTER.git .
-bash: https://github.com/KAVIYA045/BLASTER.git: No such file or directory
rkaviya@vm:/var/www/html$ sudo git clone https://github.com/KAVIYA045/BLASTER.git
/var/www/html
Cloning into '/var/www/html'...
remote: Enumerating objects: 120, done.
remote: Counting objects: 100% (120/120), done.
remote: Compressing objects: 100% (116/116), done.
remote: Total 120 (delta 7), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (120/120), 2.83 MiB | 13.45 MiB/s, done.
Resolving deltas: 100% (7/7), done.
rkaviya@vm:/var/www/html$ cd /var/www/html/sample-resume
-bash: cd: /var/www/html/sample-resume: No such file or directory
rkaviya@vm:/var/www/html$ cd /var/www/html/sample-resume
-bash: cd: /var/www/html/sample-resume: No such file or directory
rkaviya@vm:/var/www/html$ ls
blaster
rkaviya@vm:/var/www/html$ sudo nano index.html
rkaviya@vm:/var/www/html$ sudo mv /var/blaster/* /var/www/html/
```

mv: cannot stat '/var/blaster/*': No such file or directory

rkaviya@vm:/var/www/html\$ 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 05:52:56 UTC; 16min ago
 - Docs: man:nginx(8)
 - Main PID: 862 (nginx)
 - Tasks: 3 (limit: 9459)
 - Memory: 3.8M (peak: 4.0M)
 - CPU: 22ms
 - CGroup: /system.slice/nginx.service
 - └─862 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
 - └─863 "nginx: worker process"
 - └─864 "nginx: worker process"

Aug 10 05:52:55 vm systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server...







CREATION OF STORAGE ACCOUNT IN MICROSOFT:

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

1. **Sign in to Azure Portal:** Log in to the Azure portal at <https://portal.azure.com>.
2. **Create a Resource:** Click on "Create a resource" and select "Storage account" under the "Storage" category.
3. **Configure the Basics:** Choose a subscription, resource group, and storage account name. Select the region, performance tier (Standard or Premium), and replication option (e.g., LRS, GRS).
4. **Set Advanced Options:** Configure additional settings like access tier (Hot or Cool), security options, and networking.
5. **Review and Create:** Review the configuration and click "Create" to deploy the storage account.
6. **Access the Storage Account:** After deployment, access the storage account to manage containers, blobs, files, tables, or queues.

Resources

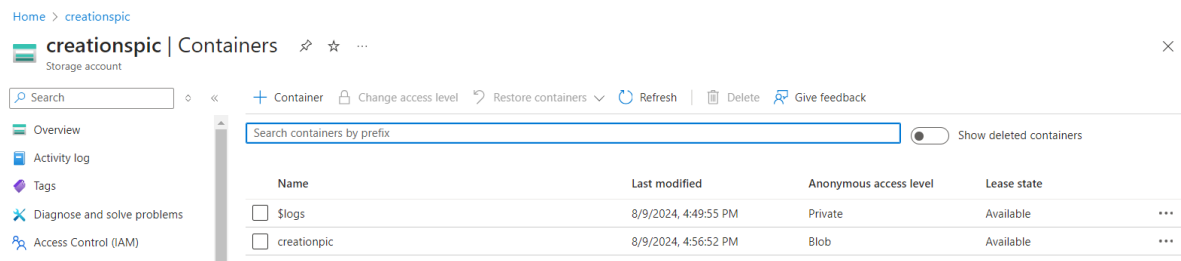
Recent Favorite

| Name | Type | Last Viewed |
|--|-----------------|----------------|
|  kaviya | Static Web App | 8 minutes ago |
|  rkaviya | Resource group | 8 minutes ago |
|  vm | Virtual machine | 13 minutes ago |
|  creationspic | Storage account | 24 minutes ago |

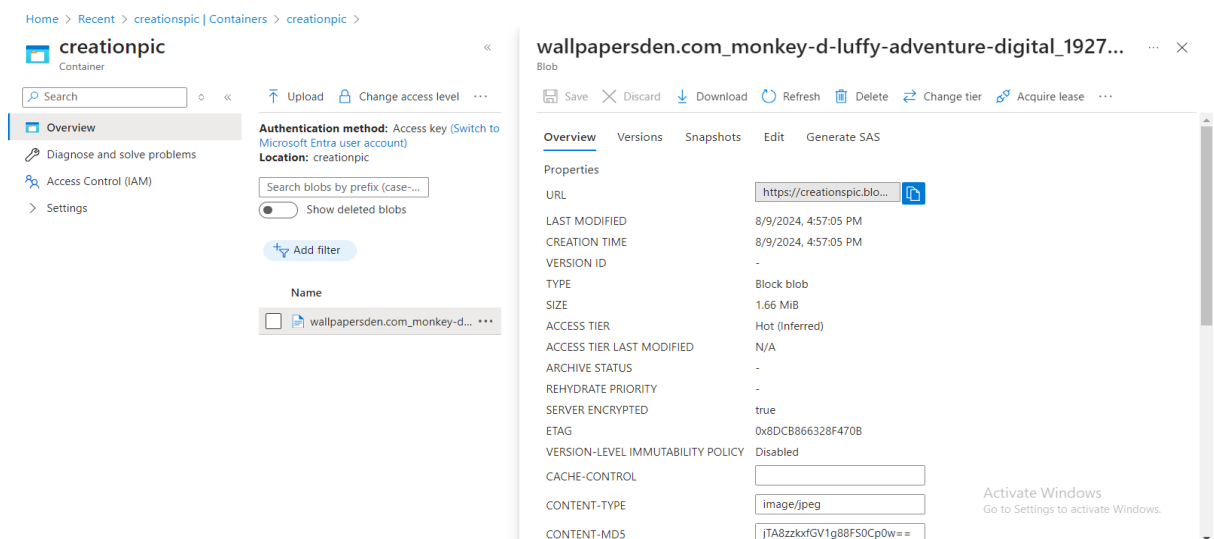
MANAGING OF STORAGE ACCOUNT

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.

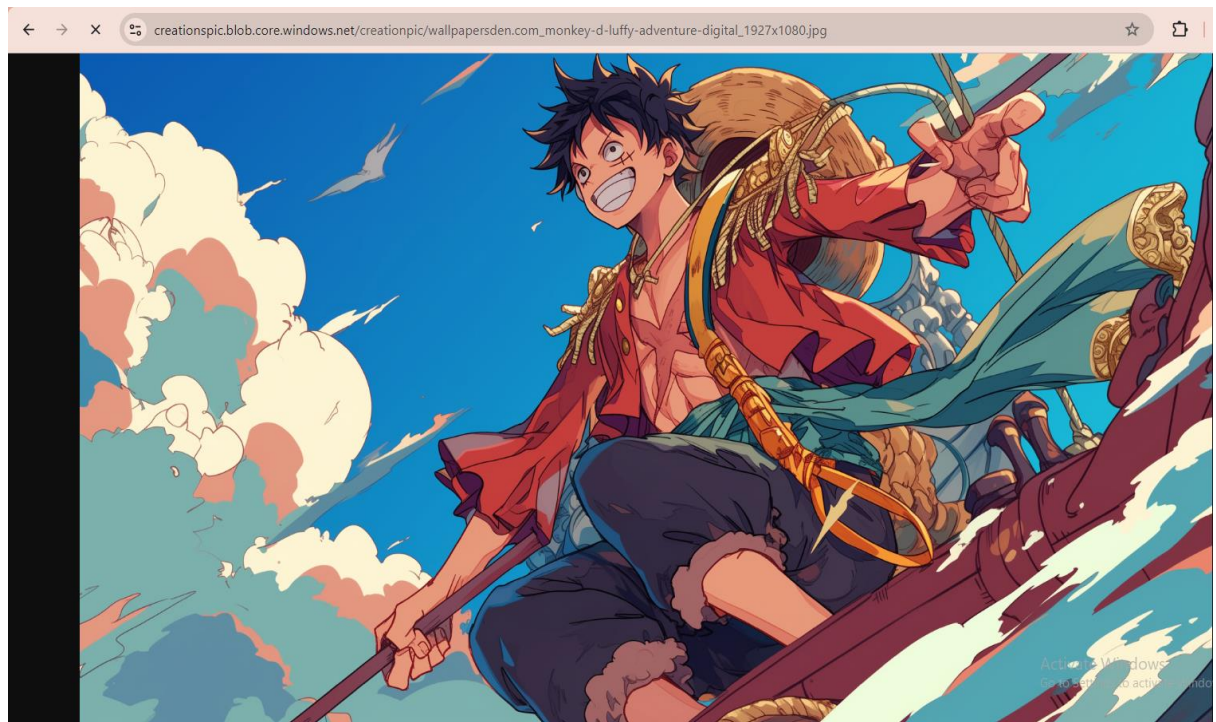


AFTER UPLOAD THE IMAGE:



URL PATH OF THE IMAGE:

https://creationspic.blob.core.windows.net/creationpic/wallpapersden.com_monkey-d-luffy-adventure-digital_1927x1080.jpg



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.

Resource group (...): [rkaviya](#)
Subscription (move): [Azure for Students](#)
Subscription ID: 72145a2d-6b37-4362-82c1-de95f881576b
Location: Global
Sku: Free
Tags (edit): [Add tags](#)


URL: <https://victorious-ground-0c7374003.5.azurestaticapp...>
Source: [main \(GitHub\)](#)
Deployment history: [GitHub Action runs](#)
View workflow: [azure-static-web-apps-victorious-ground-0c7374003...](#)

Access Your GitHub Pages Site :

Visit Your Site:

Open a web browser and navigate to <https://github.com/KAVIYA045/BLASTER.git> You should see your static web page displayed.

Get started Monitoring



View your application

| | | | |
|------------------------|-------------|---|--------------|
| Status | Environment | Domain | Hosting plan |
| Waiting for deployment | Production | https://yellow-stone-0e4bec03.5.azurestaticapps.net | Free |

[Visit your site](#)

Activate Windows
Go to Settings to activate Windows.

OUTPUT:

