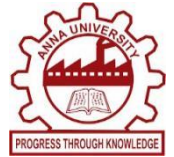




Dr. N.G.P INSTITUTE OF TECHNOLOGY, COIMBATORE - 641048

AN AUTONOMOUS INSTITUTION



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Name : Nehamitra.P

Class : III Year IT

Course Name : Microsoft azure Fundamentals

Company : Pinesphere Solution,Coimbatore

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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.

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Overview

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Student offer details



Available credits

US\$95 out of US\$100



Days until credit expires

363

Expires on 07/08/2025

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
 - > [Connect](#)
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Essentials

Resource group ([move](#))
[deepthi](#)

Status
Running

Location
East US 2 (Zone 1)

Subscription ([move](#))
[Azure for Students](#)

Subscription ID
50e35468-ea36-48bd-8995-0185f4584a19

Availability zone
1

Operating system
Linux (ubuntu 24.04)

Size
Standard E2s v3 (2 vcpus, 16 GiB memory)

Public IP address
[20.62.43.159](#)

Virtual network/subnet
[VM-vnet/default](#)

DNS name
[Not configured](#)

Health state
-

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.

deepthi [~]\$ ssh nehamitra0701@20.62.43.159

The authenticity of host '20.62.43.159 (20.62.43.159)' 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 '20.62.43.159' (ED25519) to the list of known hosts.

nehamitra0701@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

nehamitra0701@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]

Fetchd 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.

nehamitra0701@VM:~\$ `sudo apt instal git`

E: Invalid operation instal

nehamitra0701@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.

nehamitra0701@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.

```
nehamitra0701@VM:~$ sudo systemctl start nginx
```

```
nehamitra0701@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

```
nehamitra0701@VM:~$ cd /var/www/html
```

```
nehamitra0701@VM:/var/www/html$ sudo rm -rf *
```

```
nehamitra0701@VM:/var/www/html$ sudo git clone https://github.com/NEHAMITRA493/resume.git .
```

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

```
nehamitra0701@VM:/var/www/html$ sudo git clone https://github.com/NEHAMITRA493/resume.git
```

Cloning into 'resume'...

remote: Enumerating objects: 90, done.

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

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

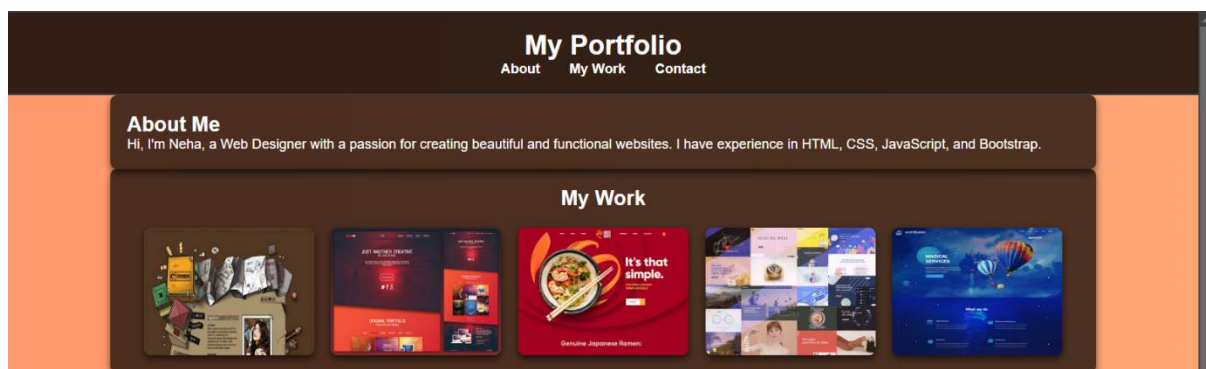
remote: Total 90 (delta 4), reused 0 (delta 0), pack-reused 0

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

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

```
nehamitra0701@VM:/var/www/html$ sudo chown -R www-data:www-data /var/www/html
```

```
nehamitra0701@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 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.

Name	Type	Last Viewed
VM	Virtual machine	an hour ago
deepthi	Resource group	an hour ago
deepthids	Static Web App	an hour ago
deepthi493	Storage account	2 hours ago

[See all](#)

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.

+ Container	Change access level	Restore containers	Refresh	Delete	Give feedback
-----------------------------	-------------------------------------	------------------------------------	-------------------------	------------------------	-------------------------------

☐ Show deleted containers

Name	Last modified	Anonymous access level	Lease state	
<input type="checkbox"/> \$logs	09/08/2024, 13:43:17	Private	Available	...
<input type="checkbox"/> deepthids	09/08/2024, 14:03:37	Blob	Available	...

AFTER UPLOADED THE IMAGE :

[Upload](#)
[Change access level](#)

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

Location: deepthids

☐ Show deleted blobs

[Add filter](#)

Name
<input type="checkbox"/> image3.jpg

Blob

[Save](#)
[Discard](#)
[Download](#)
[Refresh](#)
[Delete](#)
[Change tier](#)

[Overview](#)
[Versions](#)
[Snapshots](#)
[Edit](#)
[Generate SAS](#)

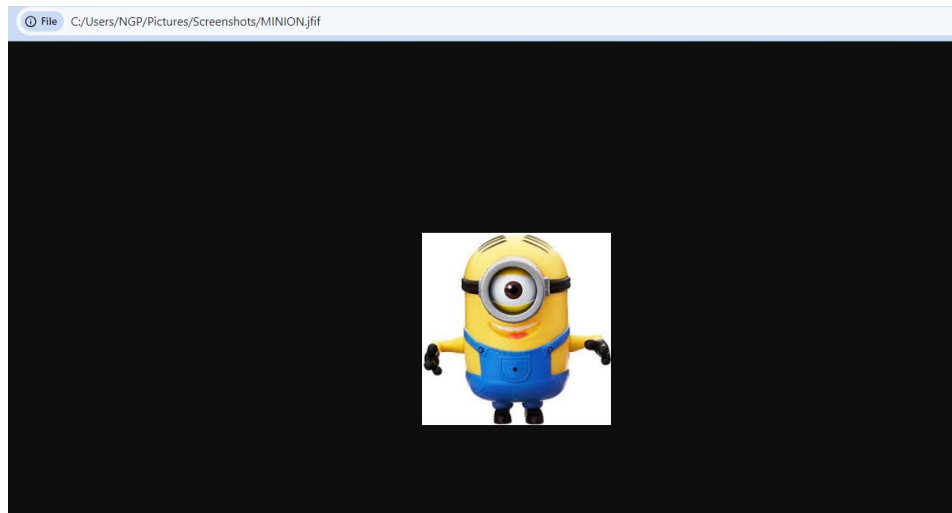
Properties

URL	https://deepthi493.blob...
LAST MODIFIED	09/08/2024, 2:01:09 pm
CREATION TIME	09/08/2024, 2:01:09 pm
VERSION ID	-
TYPE	Block blob
SIZE	107.69 KiB
ACCESS TIER	Hot (Inferred)
ACCESS TIER LAST MODIFIED	N/A
ARCHIVE STATUS	-

URL PATH OF IMAGE :

C:\Users\NGP\Pictures\Screenshots\MINION.jfif

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.

Resource group ([move](#))
[deepthi](#)

Subscription ([move](#))
[Azure for Students](#)

Subscription ID
50e35468-ea36-48bd-8995-0185f4584a19

Location
Global

Sku
Free

URL
<https://purple-bay-08b55170f.5.azurestaticapps.net>

Source
[main \(GitHub\)](#)

Deployment history
[GitHub Action runs](#)

View workflow
[azure-static-web-apps-purple-bay-08b55170f.yml](#)


Access Your GitHub Pages Site :

Visit Your Site:

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

✕ View app in browser Refresh Delete Manage deployment token Send us your feedback

Get started Monitoring



View your application

Status	Environment	Domain	Hosting plan
✓ Ready	Production	https://purple-bay-08b55170f.5.azurestaticapps.net	Free

[Visit your site](#)

OUTPUT :



