

CLOUD COMPUTING METHODOLOGIES

LAB ASSESSMENT-3

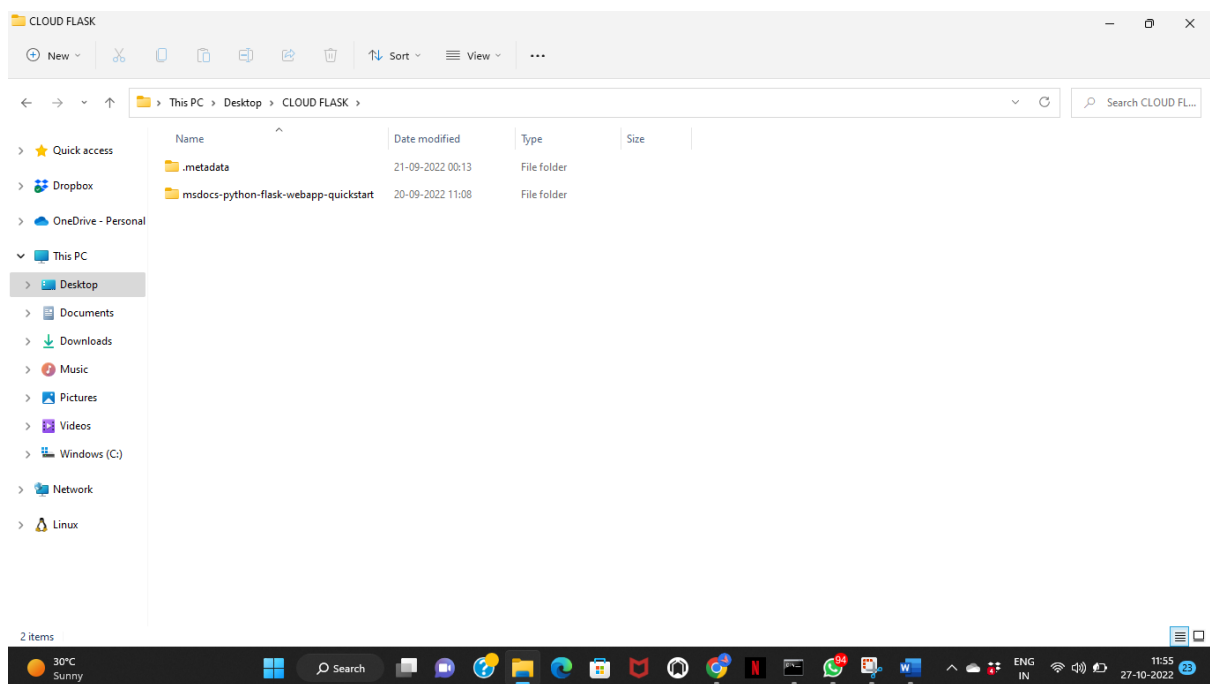
NAME:SINDUMANI.M

REGNO:19MIC0002

SLOT:L43+L44

1.CREATION OF FLASK WEBAPP LOCALLY(RUNNING THE APPLICATION ON OUR LAPTOP/DESKTOP)AS WELL AS USING AZURE WEB SERVER DEPLOYMENT

STEP1:CREATING FOLDER AND DIRECTING IN CMD



STEP 2:INSTALLING AND DOWNLOADING FLASK

COMMANDS: git clone <https://github.com/Azure-Samples/msdocs-python-flask-webapp-quickstart>

cd msdocs-python-flask-webapp-quickstart

py -m venv .venv

.venv\scripts\activate

pip install -r requirements.txt

flask run

```

C:\Windows\System32\cmd.exe - flask run
Microsoft Windows [Version 10.0.22000.856]
(c) Microsoft Corporation. All rights reserved.

C:\Users\admin\Desktop\CLOUD FLASK>git clone https://github.com/Azure-Samples/msdocs-python-flask-webapp-quickstart
fatal: destination path 'msdocs-python-flask-webapp-quickstart' already exists and is not an empty directory.

C:\Users\admin\Desktop\CLOUD FLASK>cd msdocs-python-flask-webapp-quickstart

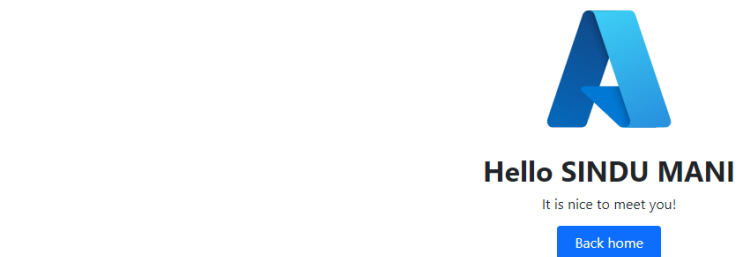
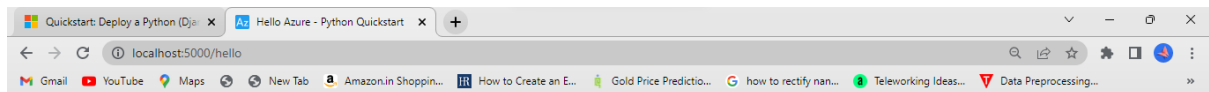
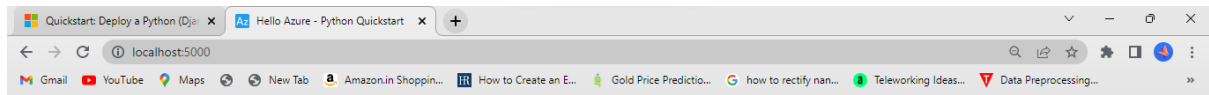
C:\Users\admin\Desktop\CLOUD FLASK\msdocs-python-flask-webapp-quickstart>py -m venv .venv

C:\Users\admin\Desktop\CLOUD FLASK\msdocs-python-flask-webapp-quickstart>.venv\scripts\activate

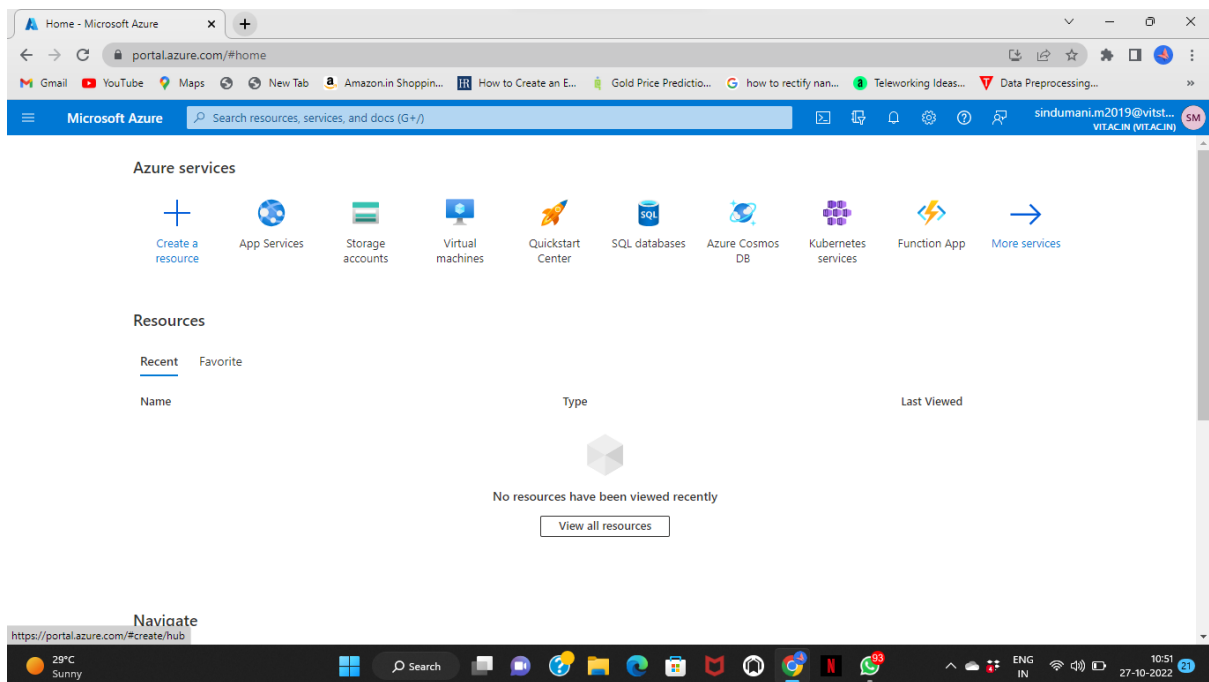
(.venv) C:\Users\admin\Desktop\CLOUD FLASK\msdocs-python-flask-webapp-quickstart>pip install -r requirements.txt
Collecting Flask==2.0.2
  Downloading Flask-2.0.2-py3-none-any.whl (95 kB)
----- 95.2/95.2 kB 187.6 kB/s eta 0:00:00
Collecting click>=7.1.2
  Downloading click-8.1.3-py3-none-any.whl (96 kB)
----- 96.6/96.6 kB 307.3 kB/s eta 0:00:00
Collecting Jinja2>=3.0
  Downloading Jinja2-3.1.2-py3-none-any.whl (133 kB)
----- 133.1/133.1 kB 225.0 kB/s eta 0:00:00
Collecting Werkzeug>=2.0
  Downloading Werkzeug-2.2.2-py3-none-any.whl (232 kB)
----- 232.7/232.7 kB 163.7 kB/s eta 0:00:00
Collecting itsdangerous>=2.0
  Downloading itsdangerous-2.1.2-py3-none-any.whl (15 kB)
Collecting colorama
  Downloading colorama-0.4.5-py2.py3-none-any.whl (16 kB)
Collecting MarkupSafe>=2.0
  Downloading MarkupSafe-2.1.1-cp310-cp310-win_amd64.whl (17 kB)
Installing collected packages: MarkupSafe, itsdangerous, colorama, Werkzeug, Jinja2, Click, Flask
Successfully installed Flask-2.0.2 Jinja2-3.1.2 MarkupSafe-2.1.1 Werkzeug-2.2.2 click-8.1.3 colorama-0.4.5 itsdangerous-2.1.2

(.venv) C:\Users\admin\Desktop\CLOUD FLASK\msdocs-python-flask-webapp-quickstart>flask run
 * Environment: production
 * WARNING: This is a development server. Do not use it in a production deployment.
 * Use a production WSGI server instead.
 * Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
```

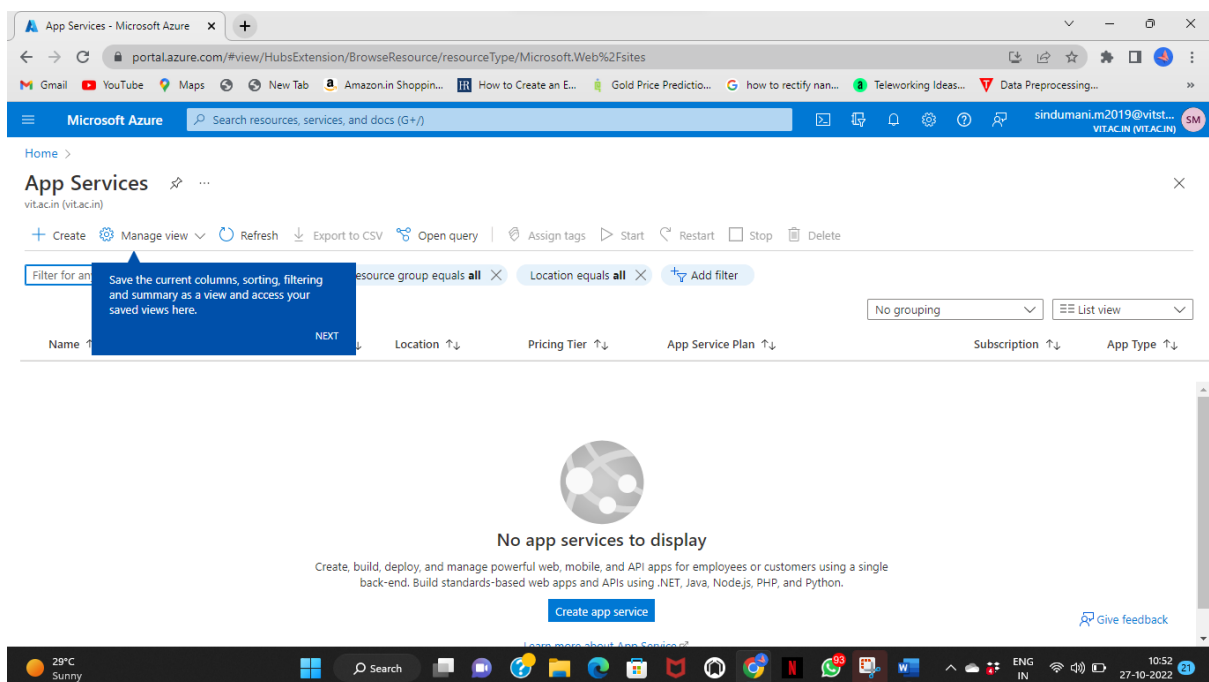
STEP 3:DEPLOYING IN LOCAL HOST:5000



STEP 4: CREATING AN APP SERVICE IN AZURE PORTAL



STEP 5: CLICKING CREATE TO CREATE THE APP SERVICE



STEP 6:NAMING THE RESOURCE GROUP AND OTHER DETAILS

Create Web App - Microsoft Azure

portal.azure.com/#create/Microsoft.WebSite

Microsoft Azure Search resources, services, and docs (G+)

Home > App Services >

Create Web App

Subscription * Azure for Students

Resource Group * msdocs-python-webapp-quickstart
[Create new](#)

Instance Details

Need a database? [Try the new Web + Database experience.](#)

Name * msdocs-python-webapp-quickstart-6351
.azurewebsites.net

Publish * ☒ Code ☐ Docker Container ☐ Static Web App

Runtime stack * Python 3.9

Operating System * ☒ Linux ☐ Windows

Region * Central India
[Not finding your App Service Plan? Try a different region or select your App Service Environment.](#)

[Review + create](#) < Previous Next: Deployment >

29°C Sunny 11:00 27-10-2022

STEP 7:CHANGING THE SUE AND SIZE

Create Web App - Microsoft Azure

portal.azure.com/#create/Microsoft.WebSite

Microsoft Azure Search resources, services, and docs (G+)

Home > App Services >

Create Web App

App Service Plan

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app. [Learn more](#)

Linux Plan (West Europe) * (New) ASP-msdocspythonwebappquickstart-8833
[Create new](#)

Sku and size * **Basic B1**
100 total ACU, 1.75 GB memory
[Change size](#)

Zone redundancy

An App Service plan can be deployed as a zone redundant service in the regions that support it. This is a deployment time only decision. You can't make an App Service plan zone redundant after it has been deployed. [Learn more](#)

Zone redundancy

☐ Enabled: Your App Service plan and the apps in it will be zone redundant. The minimum App Service plan instance count will be three.

☒ Disabled: Your App Service Plan and the apps in it will not be zone redundant. The minimum App Service plan instance count will be one.

[Review + create](#) < Previous Next: Deployment >

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STEP 8: CHOOSING Dev/Test and Basic B1

The screenshot shows the 'Spec Picker' window in the Microsoft Azure portal. The 'Dev / Test' tab is selected, and the 'Basic B1' pricing tier is highlighted. The 'Included features' section shows 'Custom domains / SSL' and 'Included hardware' section shows 'Azure Compute Units (ACU)'.

Spec Picker

For less demanding workloads

Production
For most production workloads

Isolated
Advanced networking and scale

The first Basic (B1) core for Linux is free for the first 30 days!

Recommended pricing tiers

F1
1 GB memory
60 minutes/day compute
Free

B1
100 total ACU
1.75 GB memory
A-Series compute equivalent
946.67 INR/Month (Estimated)

See additional options

Included features
Every app hosted on this App Service plan will have access to these features:

- Custom domains / SSL**
Configure and purchase custom domains with SNI SSL bindings

Included hardware
Every instance of your App Service plan will include the following hardware configuration:

- Azure Compute Units (ACU)**
Dedicated compute resources used to run applications deployed in the App Service Plan. [Learn more](#)

Review + create **< Previous** **Next : Deployment >** **Apply**

STEP 9: CREATING WEB APP

The screenshot shows the 'Create Web App' page in the Microsoft Azure portal. The 'Linux Plan (West Europe)' is selected, and the 'Basic B1' pricing tier is highlighted. The 'Zone redundancy' section shows 'Enabled' selected.

Create Web App

App Service Plan
App Service plan pricing tier determines the location, features, cost and compute resources associated with your app. [Learn more](#)

Linux Plan (West Europe) * (New) ASP-msdocspythonwebappquickstart-8833 [Create new](#)

Sku and size *
Basic B1
100 total ACU, 1.75 GB memory
[Change size](#)

Zone redundancy
An App Service plan can be deployed as a zone redundant service in the regions that support it. This is a deployment time only decision. You can't make an App Service plan zone redundant after it has been deployed. [Learn more](#)

Zone redundancy

- ☐ **Enabled:** Your App Service plan and the apps in it will be zone redundant. The minimum App Service plan instance count will be three.
- ☒ **Disabled:** Your App Service Plan and the apps in it will not be zone redundant. The minimum App Service plan instance count will be one.

Review + create **< Previous** **Next : Deployment >**

Create Web App - Microsoft Azure

portal.azure.com/#create/Microsoft.WebSite

Microsoft Azure

Home > App Services >

Create Web App

Basics Deployment Networking Monitoring Tags **Review + create**

Summary

Web App
by Microsoft

Basic (B1) sku
Estimated price - loading ...

Details

Subscription: e010da47-f604-4e12-99f3-d238f978f58b
Resource Group: msdocs-python-webapp-quickstart
Name: msdocs-python-webapp-quickstart-6351
Publish: Code
Runtime stack: Python 3.9

App Service Plan (New)

Name: ASP-msdocspythonwebappquickstart-8833

Create < Previous Next > Download a template for automation

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STEP 10: DEPLOYMENT IN PROGRESS

Microsoft.Web-WebApp-Portal-016f5a76-8658 | Overview

Deployment

Search < Delete Cancel Redeploy Download Refresh

Overview Inputs Outputs Template

Deployment is in progress

Deployment name: Microsoft.Web-WebApp-Portal-016f5a... Start time: 10/27/2022, 10:57:10 AM
Subscription: Azure for Students Correlation ID: 99b3008a-eeeb-47ea-b1c0-255e3a37dca2
Resource group: msdocs-python-webapp-quickstart

Deployment details

Resource	Type	Status	Operation details
No results.			

Give feedback
Tell us about your experience with deployment

Deployment in progress...
Deployment to resource group 'msdocs-python-webapp-quickstart' is in progress.

Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >

Free Microsoft tutorials
Start learning today >

Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
Find an Azure expert >

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STEP 11:DEPLOYMENT COMPLETED

The screenshot shows the Microsoft Azure portal interface. The browser address bar displays the URL: `portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F010da47-f604-4e12-99f3-d238f978f58b%2FresourceG...`. The page title is "Microsoft.Web-WebApp-Portal-3d3fba8a-921a | Overview". The main content area shows a green checkmark and the text "Your deployment is complete". Below this, it lists deployment details: "Deployment name: Microsoft.Web-WebApp-Portal-3d3fb...", "Subscription: Azure for Students", and "Resource group: msdocs-python-webapp-quickstart". It also shows the start time as "10/27/2022, 11:01:05 AM" and a correlation ID. A "Go to resource" button is visible. On the right, there are sections for "Cost Management" and "Microsoft Defender for Cloud". The bottom of the screen shows a Windows taskbar with various application icons and a system tray indicating the date and time as "27-10-2022 11:02".

STEP 12:BROWSING TO THE APP WITH URL: <http://<app-name>.azurewebsites.net>

APP NAME:msdocs-python-webapp-quickstart-6351

The screenshot shows a web browser window with the URL `https://msdocs-python-webapp-quickstart-6351.azurewebsites.net/`. The page displays the Azure logo and the text "Welcome to Azure". Below this, it asks "Please tell me your name?" and shows a text input field containing "SINDU MANI". A blue "Say Hello" button is visible below the input field. The browser's address bar and tabs are visible at the top.

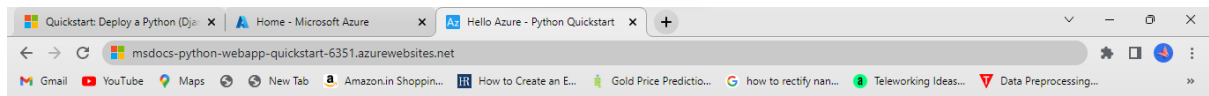


Welcome to Azure

Please tell me your name?

SINDU MANI

Say Hello



Hello SINDU MANI

It is nice to meet you!

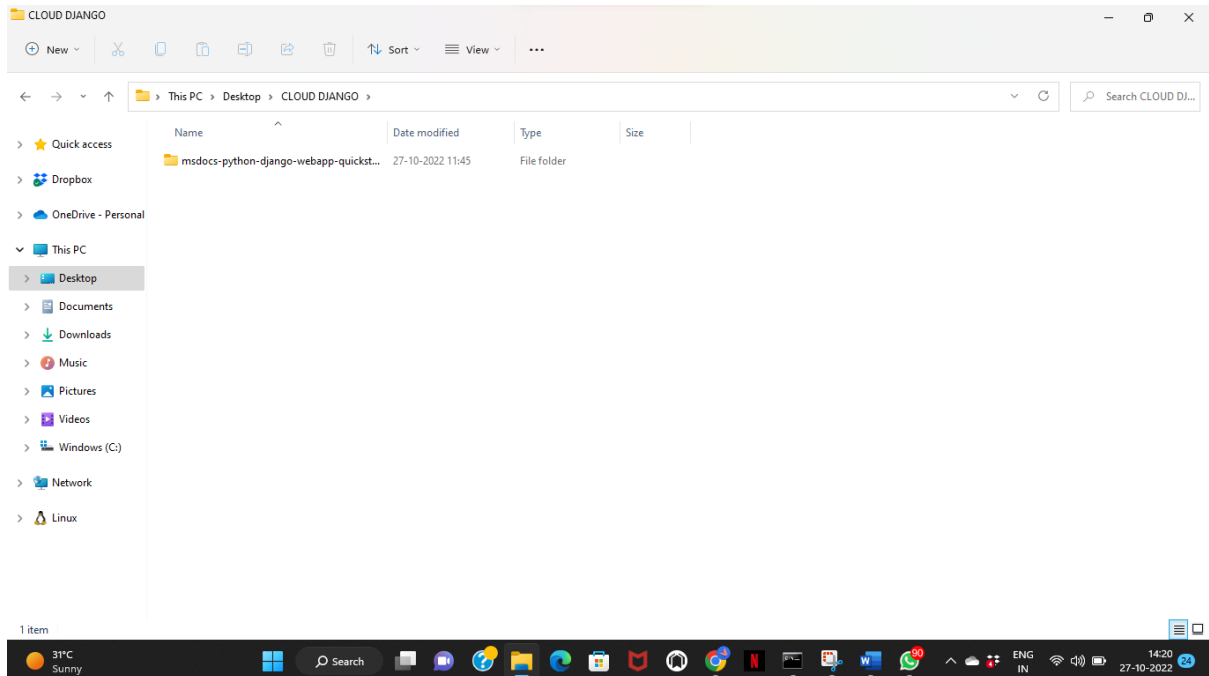
[Back home](#)

STEP 13:VIEWING IN CMD:

```
Request for index page received
[27/Oct/2022 14:25:23] "GET / HTTP/1.1" 200 1583
Request for hello page received with name=SINDU MANI
[27/Oct/2022 14:30:04] "POST /hello HTTP/1.1" 200 800
Request for index page received
[27/Oct/2022 14:32:01] "GET / HTTP/1.1" 200 1583
Request for hello page received with name=SINDU MANI
[27/Oct/2022 14:32:08] "POST /hello HTTP/1.1" 200 800
```

2.CREATION OF DJANGO WEB APP LOCALLY(RUNNING THE APPLICATION ON YOUR LAPTOP/DESKTOP)AS WELL AS USING AZURE WEB SERVER DEPLOYMENT

STEP1:CREATING FOLDER AND DIRECTING IN CMD



STEP 2:INSTALLING AND DOWNLOADING DJANGO

COMMANDS: `git clone https://github.com/Azure-Samples/msdocs-python-django-webapp-quickstart`

`cd msdocs-python-django-webapp-quickstart`

`py -m venv .venv`

`.venv\scripts\activate`

`pip install -r requirements.txt`

`python manage.py runserver`

Quickstart: Deploy a Python (Dj) X

learn.microsoft.com/en-us/azure/app-service/quickstart-python?tabs=django%2Cwindows%2Cazure-cli%2Cvscode-deploy%2Cdeploy-instructions-azportal%2Cte...

C:\Windows\System32\cmd.exe

```
Microsoft Windows [Version 10.0.22000.1898]
(c) Microsoft Corporation. All rights reserved.

C:\Users\admin\Desktop\CLOUD DJANGO>git clone https://github.com/Azure-Samples/msdocs-python-django-webapp-quickstart
Cloning into 'msdocs-python-django-webapp-quickstart'...
remote: Enumerating objects: 186, done.
remote: Counting objects: 100% (186/186), done.
remote: Compressing objects: 100% (81/81), done.
remote: Total 186 (delta 90), reused 175 (delta 90), pack-reused 0
Receiving objects: 100% (186/186), 706.83 KiB | 602.00 KiB/s, done.
Resolving deltas: 100% (90/90), done.

C:\Users\admin\Desktop\CLOUD DJANGO>cd msdocs-python-django-webapp-quickstart

C:\Users\admin\Desktop\CLOUD DJANGO\msdocs-python-django-webapp-quickstart>py -m venv .venv

C:\Users\admin\Desktop\CLOUD DJANGO\msdocs-python-django-webapp-quickstart>.venv\scripts\activate
(.venv) C:\Users\admin\Desktop\CLOUD DJANGO\msdocs-python-django-webapp-quickstart>pip install -r requirements.txt
```

5. Browse to the sample application at <http://localhost:8000> in a web browser.

Download PDF

Hello Azure - Python Quickstart

30°C Sunny

Quickstart: Deploy a Python (Dj) X

learn.microsoft.com/en-us/azure/app-service/quickstart-python?tabs=django%2Cwindows%2Cazure-cli%2Cvscode-deploy%2Cdeploy-instructions-azportal%2Cte...

C:\Windows\System32\cmd.exe - pip install -r requirements.txt

```
Cloning into 'msdocs-python-django-webapp-quickstart'...
remote: Enumerating objects: 186, done.
remote: Counting objects: 100% (186/186), done.
remote: Compressing objects: 100% (81/81), done.
remote: Total 186 (delta 90), reused 175 (delta 90), pack-reused 0
Receiving objects: 100% (186/186), 706.83 KiB | 602.00 KiB/s, done.
Resolving deltas: 100% (90/90), done.

C:\Users\admin\Desktop\CLOUD DJANGO>cd msdocs-python-django-webapp-quickstart

C:\Users\admin\Desktop\CLOUD DJANGO\msdocs-python-django-webapp-quickstart>py -m venv .venv

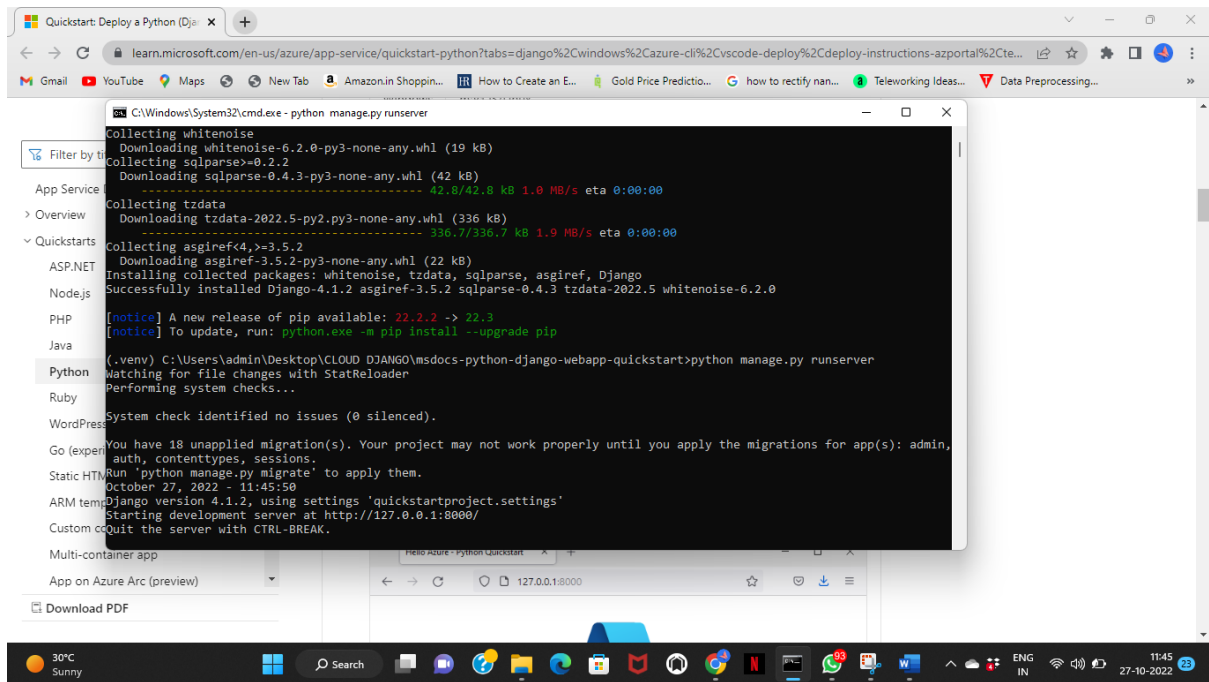
C:\Users\admin\Desktop\CLOUD DJANGO\msdocs-python-django-webapp-quickstart>.venv\scripts\activate
(.venv) C:\Users\admin\Desktop\CLOUD DJANGO\msdocs-python-django-webapp-quickstart>pip install -r requirements.txt
Collecting Django
  Downloading Django-4.1.2-py3-none-any.whl (8.1 MB)
----- 8.1/8.1 MB 1.6 MB/s eta 0:00:00
Collecting whitenoise
  Downloading whitenoise-6.2.0-py3-none-any.whl (19 kB)
Collecting sqlparse>=0.2.2
  Downloading sqlparse-0.4.3-py3-none-any.whl (42 kB)
----- 42.0/42.0 kB 1.0 MB/s eta 0:00:00
Collecting tzdata
  Downloading tzdata-2022.5-py2.py3-none-any.whl (336 kB)
----- 336.7/336.7 kB 1.9 MB/s eta 0:00:00
Collecting asgiref<4, >=3.5.2
  Downloading asgiref-3.5.2-py3-none-any.whl (22 kB)
Installing collected packages: whitenoise, tzdata, sqlparse, asgiref, Django
```

5. Browse to the sample application at <http://localhost:8000> in a web browser.

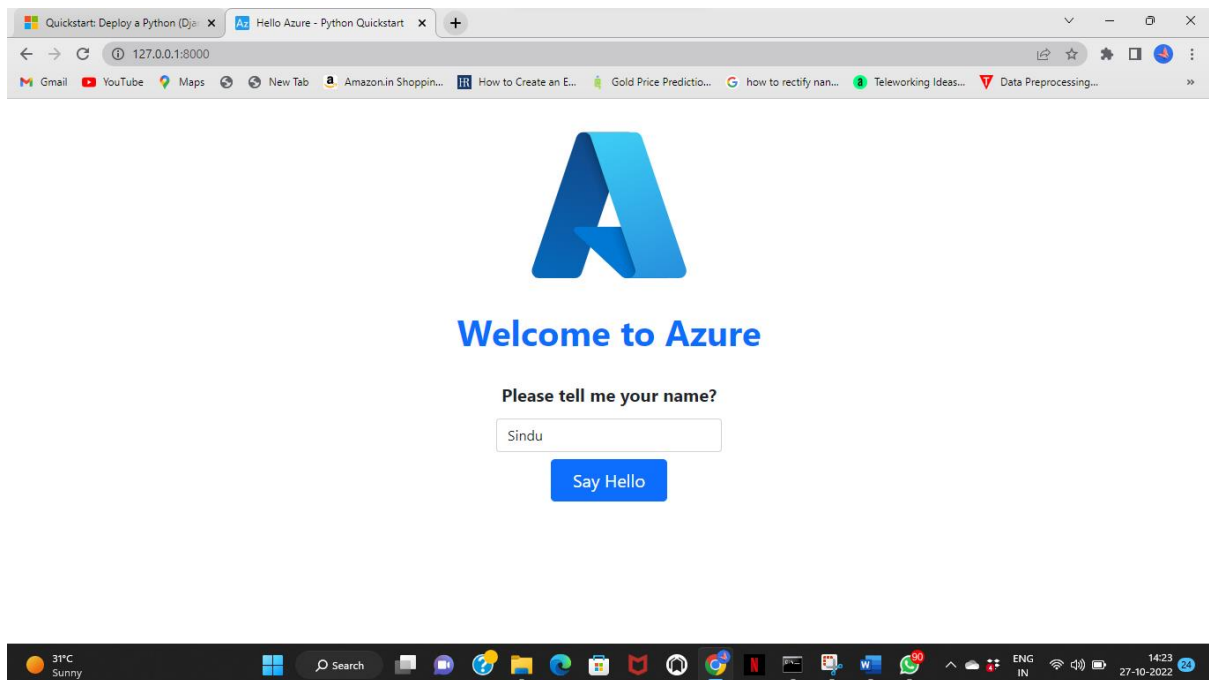
Download PDF

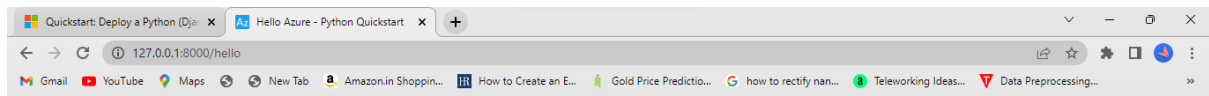
Hello Azure - Python Quickstart

30°C Sunny



STEP 3:DEPLOYING IN LOCAL HOST:8000





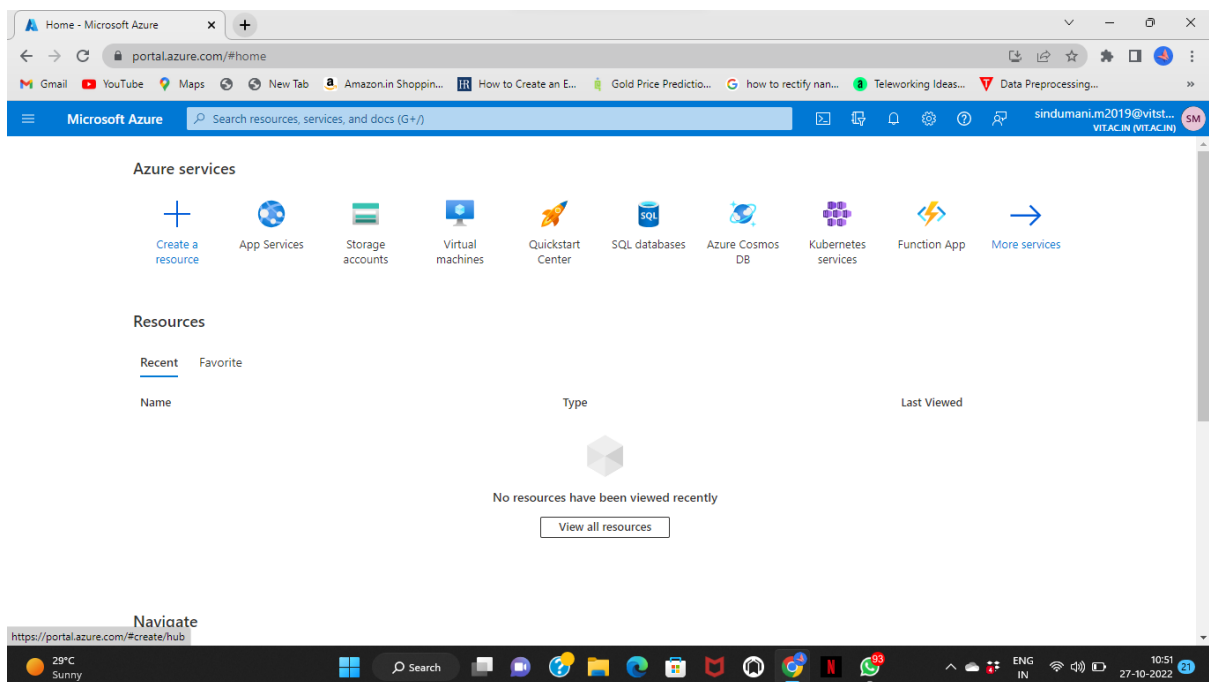
Hello Sindu

It is nice to meet you!

[Back home](#)



STEP 4: CREATING AN APP SERVICE IN AZURE PORTAL



STEP 5:CLICKING CREATE TO CREATE THE APP SERVICE

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the 'App Services - Microsoft Azure' tab and a search bar. The main content area is titled 'App Services' and shows a list of services. A blue tooltip is visible over the 'Filter for all' button, stating: 'Save the current columns, sorting, filtering and summary as a view and access your saved views here.' The list of services is empty, displaying a large circular icon with a grid pattern and the text 'No app services to display'. Below this, a description states: 'Create, build, deploy, and manage powerful web, mobile, and API apps for employees or customers using a single back-end. Build standards-based web apps and APIs using .NET, Java, Nodejs, PHP, and Python.' A 'Create app service' button is prominently displayed. The bottom of the screen shows the Windows taskbar with various application icons and system information like '29°C Sunny' and '10:52 27-10-2022'.

STEP 6:NAMING THE RESOURCE GROUP AND OTHER DETAILS

The screenshot shows the 'Create Web App' wizard in the Microsoft Azure portal. The 'Subscription' is set to 'Azure for Students' and the 'Resource Group' is 'msdocs-python-webapp-quickstart'. Under 'Instance Details', the 'Name' is 'msdocs-python-webapp-quickstart-6351'. The 'Publish' method is 'Code', the 'Runtime stack' is 'Python 3.9', the 'Operating System' is 'Linux', and the 'Region' is 'Central India'. A note at the bottom states: 'Not finding your App Service Plan? Try a different region or select your App Service Environment.' The bottom of the screen shows the Windows taskbar with various application icons and system information like '29°C Sunny' and '11:00 27-10-2022'.

STEP 7: CHANGING THE SIZE AND SIZE

Create Web App - Microsoft Azure

portal.azure.com/#create/Microsoft.WebSite

Microsoft Azure Search resources, services, and docs (G+)

Home > App Services >

Create Web App

App Service Plan

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app. [Learn more](#)

Linux Plan (West Europe) * (New) ASP-msdocspythonwebappquickstart-8833 [Create new](#)

Sku and size * **Basic B1**
100 total ACU, 1.75 GB memory [Change size](#)

Zone redundancy

An App Service plan can be deployed as a zone redundant service in the regions that support it. This is a deployment time only decision. You can't make an App Service plan zone redundant after it has been deployed. [Learn more](#)

Zone redundancy

☐ Enabled: Your App Service plan and the apps in it will be zone redundant. The minimum App Service plan instance count will be three.

☒ Disabled: Your App Service Plan and the apps in it will not be zone redundant. The minimum App Service plan instance count will be one.

[Review + create](#) < Previous Next: Deployment >

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STEP 8: CHOOSING Dev/Test and Basic B1

Spec Picker - Microsoft Azure

portal.azure.com/#create/Microsoft.WebSite

Microsoft Azure Search resources, services, and docs (G+)

Home > App Services >

Create Web App

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Linux Plan (West Europe) * (New) ASP-msdocspythonwebappquickstart-8833 [Create new](#)

Sku and size * **Basic B1**
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[Review + create](#) < Previous Next: Deployment >

Spec Picker

Dev / Test
For less demanding workloads

Production
For most production workloads

Isolated
Advanced networking and scale

The first Basic (B1) core for Linux is free for the first 30 days!

Recommended pricing tiers

Tier	Memory	Compute	Cost
F1	1 GB memory	60 minutes/day compute	Free
B1	100 total ACU 1.75 GB memory A-Series compute equivalent		946.67 INR/Month (Estimated)

[See additional options](#)

Included features

Every app hosted on this App Service plan will have access to these features:

- Custom domains / SSL**
Configure and purchase custom domains with SNI SSL bindings

Included hardware

Every instance of your App Service plan will include the following hardware configuration:

- Azure Compute Units (ACU)**
Dedicated compute resources used to run applications deployed in the App Service Plan. [Learn more](#)

[Apply](#)

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STEP 9: CREATING WEB APP

Create Web App - Microsoft Azure | portal.azure.com/#create/Microsoft.WebSite

Home > App Services > Create Web App

App Service Plan

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app. [Learn more](#)

Linux Plan (West Europe) (New) ASP-msdocspythonwebappquickstart-8833 [Create new](#)

Sku and size **Basic B1**
100 total ACU, 1.75 GB memory [Change size](#)

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[Review + create](#) < Previous Next: Deployment >

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Create Web App - Microsoft Azure | portal.azure.com/#create/Microsoft.WebSite

Home > App Services > Create Web App

Basics Deployment Networking Monitoring Tags **Review + create**

Summary

Web App by Microsoft

Basic (B1) sku
Estimated price - loading ...

Details

Subscription	e010da47-f604-4e12-99f3-d238f978f58b
Resource Group	msdocs-python-webapp-quickstart
Name	msdocs-python-webapp-quickstart-6351
Publish	Code
Runtime stack	Python 3.9

App Service Plan (New)

Name	ASP-msdocspythonwebappquickstart-8833
------	---------------------------------------

[Create](#) < Previous Next > [Download a template for automation](#)

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STEP 10: DEPLOYMENT IN PROGRESS

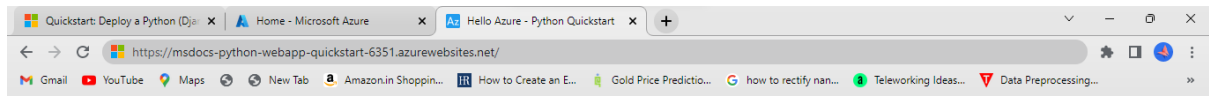
The screenshot shows the Microsoft Azure portal interface. The browser address bar displays the URL: `portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F010da47-f604-4e12-99f3-d238f978f58b%2FresourceG...`. The page title is "Microsoft.Web-WebApp-Portal-016f5a76-8658 | Overview". The left sidebar shows the "Overview" tab selected. The main content area displays "Deployment is in progress" with a green progress bar. The deployment details show: Deployment name: Microsoft.Web-WebApp-Portal-016f5a..., Subscription: Azure for Students, Resource group: msdocs-python-webapp-quickstart, Start time: 10/27/2022, 10:57:10 AM, and Correlation ID: 99b3008a-eeeb-47ea-b1c0-255e3a37dca2. A table with headers "Resource", "Type", "Status", and "Operation details" shows "No results." Below the table, there is a "Give feedback" section with a link to "Tell us about your experience with deployment". On the right side, there is a sidebar with links to "Microsoft Defender for Cloud", "Free Microsoft tutorials", and "Work with an expert". A notification banner at the top right states: "Deployment in progress... Deployment to resource group 'msdocs-python-webapp-quickstart' is in progress."

STEP 11: DEPLOYMENT COMPLETED

The screenshot shows the Microsoft Azure portal interface. The browser address bar displays the URL: `portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F010da47-f604-4e12-99f3-d238f978f58b%2FresourceG...`. The page title is "Microsoft.Web-WebApp-Portal-3d3fba8a-921a | Overview". The left sidebar shows the "Overview" tab selected. The main content area displays "Your deployment is complete" with a green checkmark. The deployment details show: Deployment name: Microsoft.Web-WebApp-Portal-3d3fb..., Subscription: Azure for Students, Resource group: msdocs-python-webapp-quickstart, Start time: 10/27/2022, 11:01:05 AM, and Correlation ID: e504d494-93ff-47d8-b657-c5b478e42db1. Below the details, there is a "Next steps" section with links to "Manage deployments for your app" and "Protect your app with authentication". A "Go to resource" button is also present. On the right side, there is a sidebar with links to "Cost Management", "Microsoft Defender for Cloud", "Free Microsoft tutorials", and "Work with an expert".

STEP 12: BROWSING TO THE APP WITH URL: <http://<app-name>.azurewebsites.net>

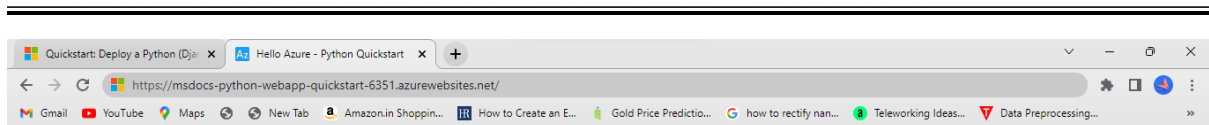
APP NAME: msdocs-python-webapp-quickstart-6351



Welcome to Azure

Please tell me your name?

Say Hello



Hello Sindu

It is nice to meet you!

Back home

STEP 13:VIEWING IN CMD

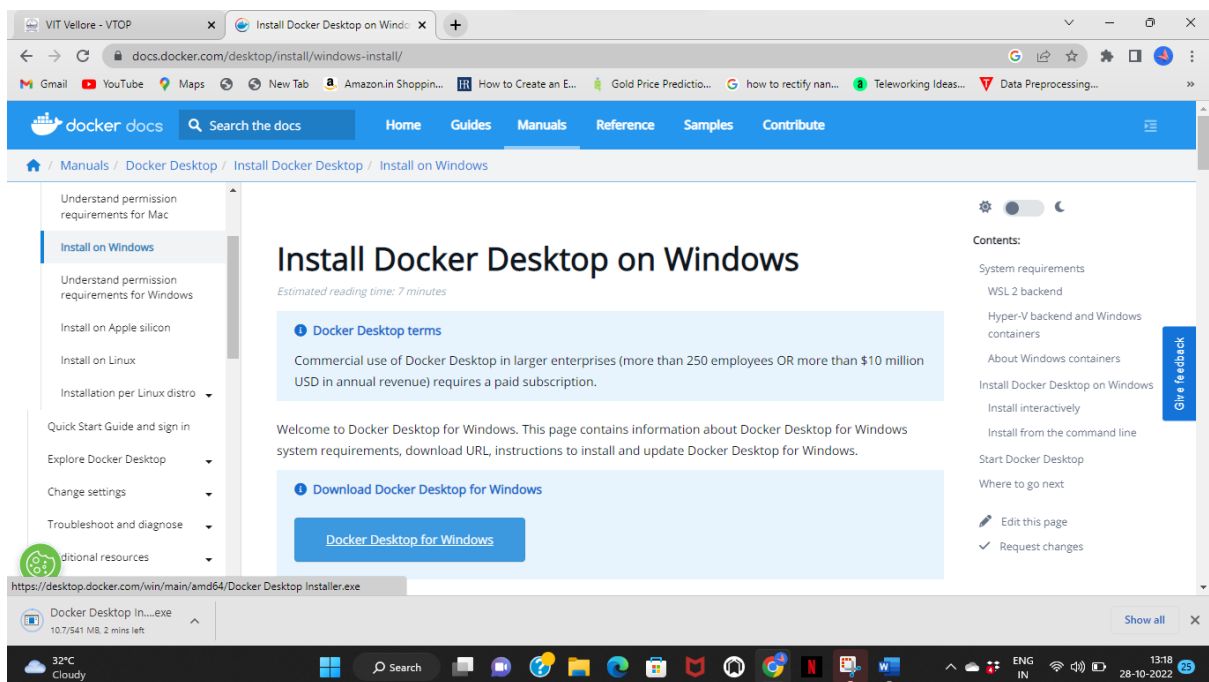
```
Request for index page received
[27/Oct/2022 11:46:16] "GET / HTTP/1.1" 200 1583
[27/Oct/2022 11:46:16] "GET /static/images/azure-icon.svg HTTP/1.1" 200 2268
[27/Oct/2022 11:46:16] "GET /static/bootstrap/css/bootstrap.min.css HTTP/1.1" 200 163879
[27/Oct/2022 11:46:16] "GET /static/favicon.ico HTTP/1.1" 200 15406
Request for hello page received with name=Sindu
[27/Oct/2022 11:46:34] "POST /hello HTTP/1.1" 200 795
[27/Oct/2022 11:46:34] "GET /static/images/azure-icon.svg HTTP/1.1" 304 0
[27/Oct/2022 11:46:34] "GET /static/bootstrap/css/bootstrap.min.css HTTP/1.1" 304 0
[27/Oct/2022 11:46:34] "GET /static/favicon.ico HTTP/1.1" 304 0
Request for index page received
[27/Oct/2022 11:46:45] "GET / HTTP/1.1" 200 1583
Request for index page received
[27/Oct/2022 14:23:15] "GET / HTTP/1.1" 200 1583
[27/Oct/2022 14:23:15] "GET /static/bootstrap/css/bootstrap.min.css HTTP/1.1" 304 0
[27/Oct/2022 14:23:15] "GET /static/images/azure-icon.svg HTTP/1.1" 304 0
[27/Oct/2022 14:23:15] "GET /static/favicon.ico HTTP/1.1" 304 0
Request for hello page received with name=Sindu
[27/Oct/2022 14:24:23] "POST /hello HTTP/1.1" 200 795
```

3.DEPLOYING DOCKER CONTAINERS ON AZURE

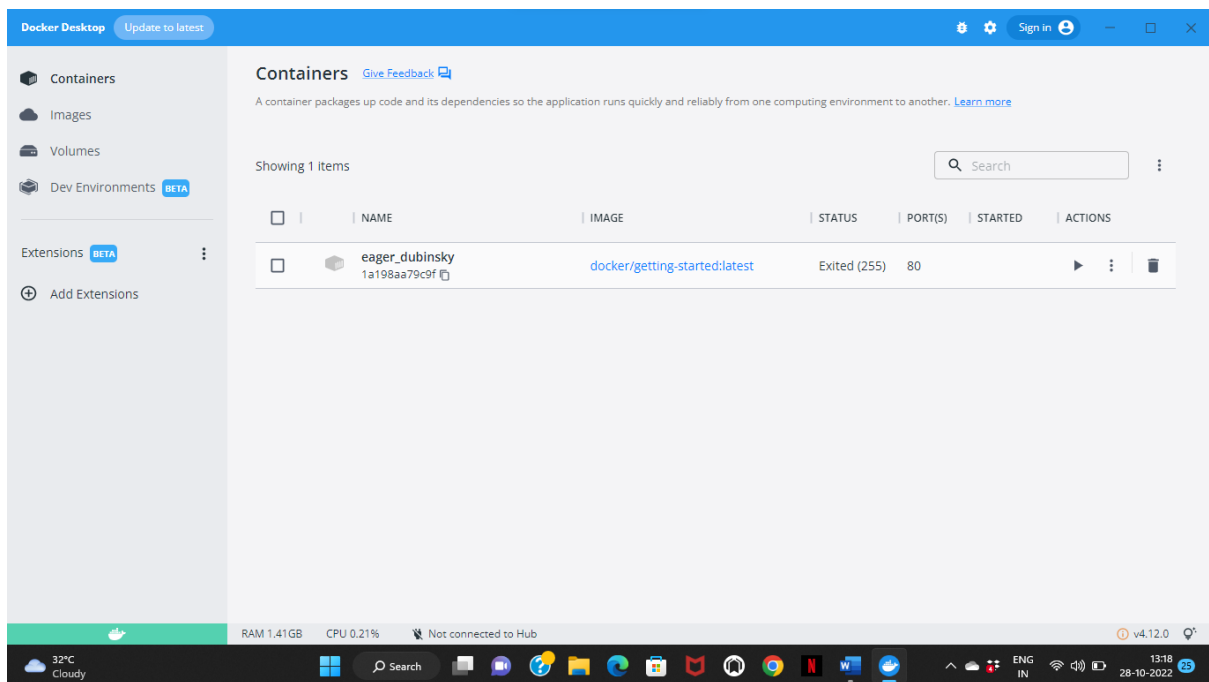
1.INSTALLING DOCKER ON WINDOWS



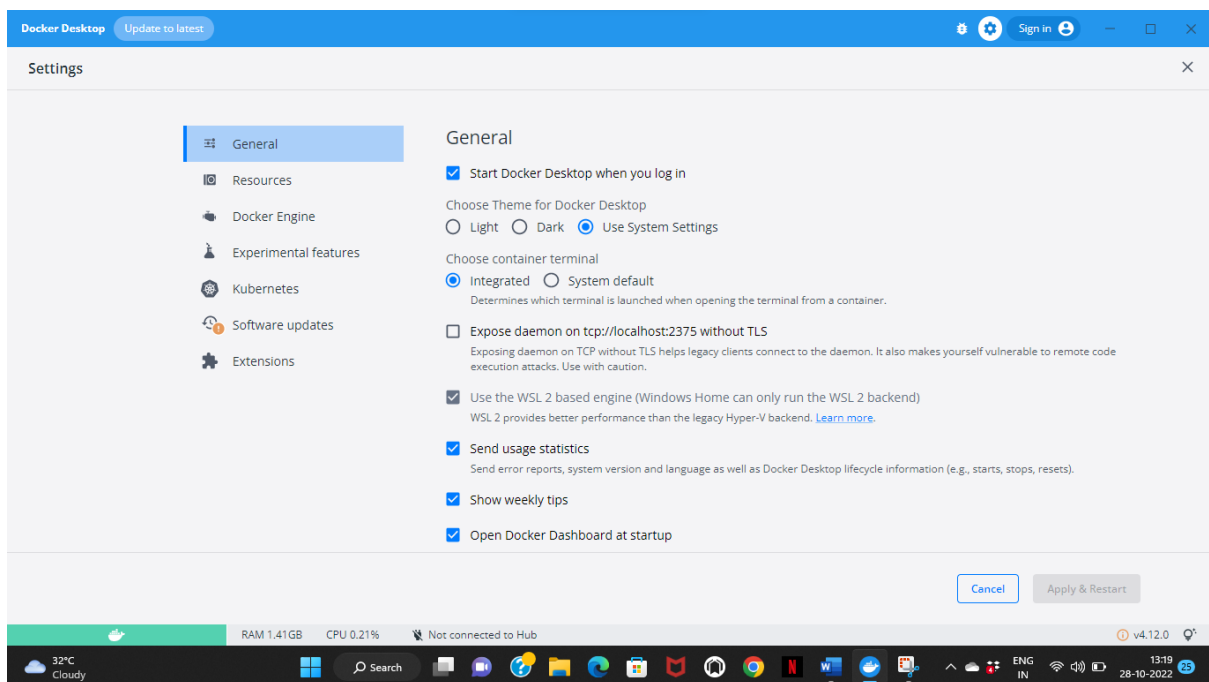
2.CLICKING ON DOWNLOAD BUTTON

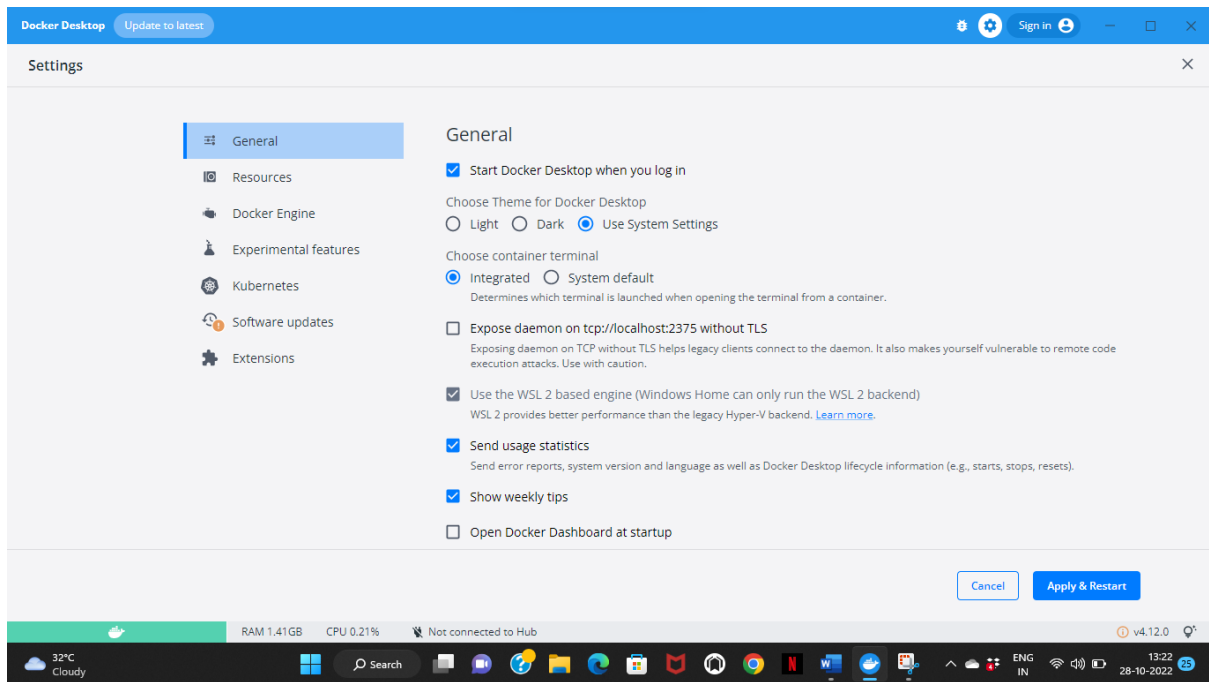


3.VIEWING SETTINGS



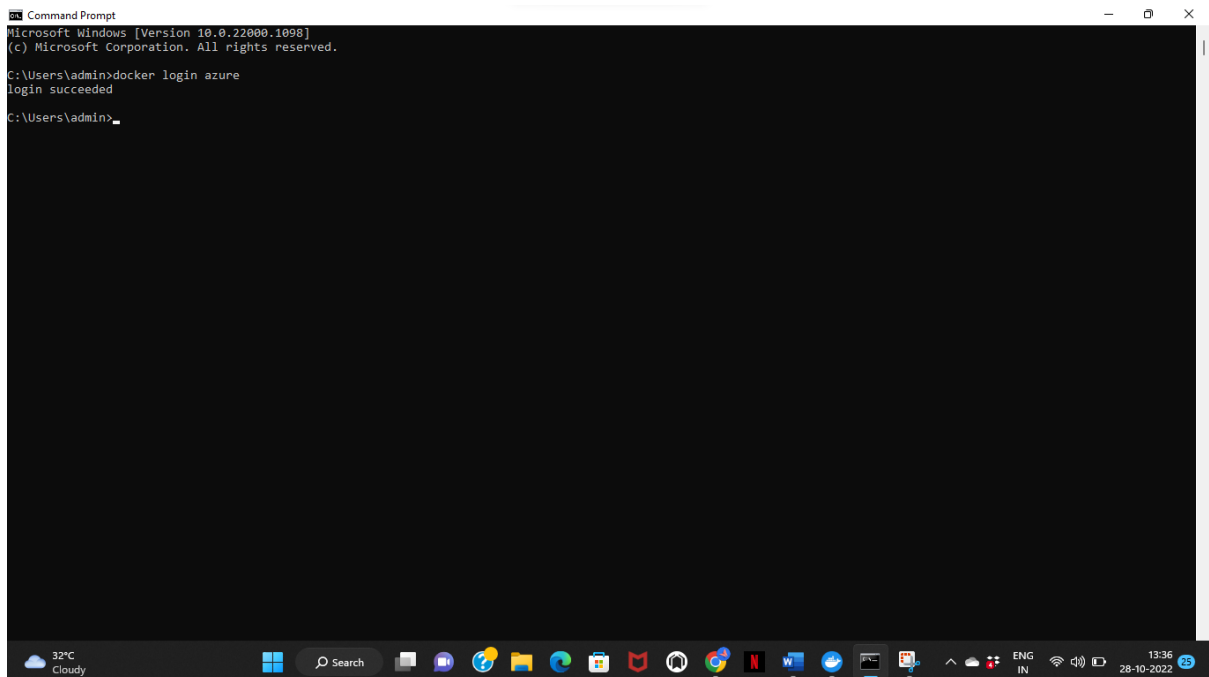
4.CHANGING GENERAL SETTINGS AND RESTARTING



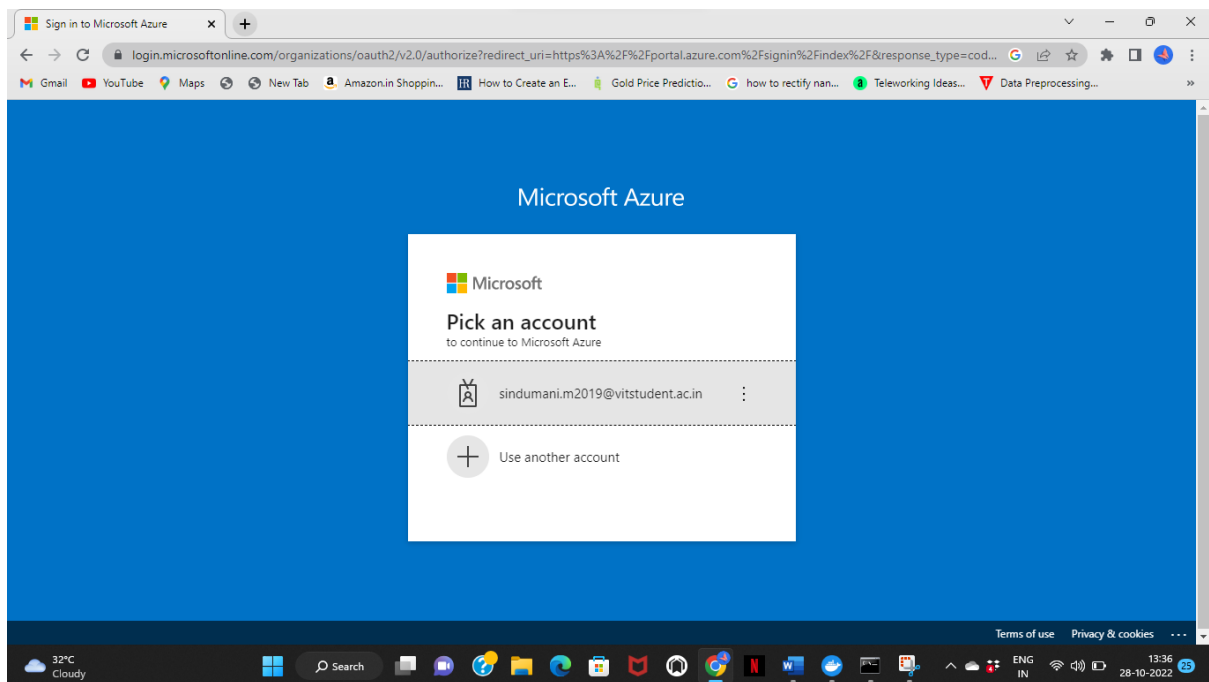


5.LOGGING INTO AZURE USING DOCKER COMMAND

COMMAND:docker login azure



6.SUCCESSFULLY LOGGED INTO AZURE



7.CREATING A RESOURCE GROUP

COMMAND:docker context create aci myacicontext

```
Microsoft Windows [Version 10.0.22000.1000]
(c) Microsoft Corporation. All rights reserved.

C:\Users\admin>docker login azure
login succeeded

C:\Users\admin>docker context create aci saisindeuacicontext
Using only available subscription : Azure for Students (e010da47-f604-4e12-99f3-d238f978f58b)
Select a resource group, create a new resource group
Resource group "7e74bc0a-b76c-0c49-11c2-779e7356a0b" (eastus) created
Successfully created aci context "saisindeuacicontext"

C:\Users\admin>
C:\Users\admin>
```

8.TO VIEW THE DOCKER CONTEXTS

COMMAND:docker context ls

```
Command Prompt
Microsoft Windows [Version 10.0.22000.1098]
(c) Microsoft Corporation. All rights reserved.

C:\Users\admin>docker login azure
login succeeded

C:\Users\admin>docker context create aci saisinduacicontext
Using only available subscription : Azure for Students (e010da47-f604-4e12-99f3-d238f978f58b)
? Select a resource group create a new resource group
Resource group "7e74bc0a-b76c-0c40-11c2-778ea7356a8b" (eastus) created
Successfully created aci context "saisinduacicontext"

C:\Users\admin>
C:\Users\admin>docker context ls
NAME                TYPE                DESCRIPTION                DOCKER ENDPOINT                KUBERNETES ENDPOINT    ORCHESTRATOR
default *           moby                Current DOCKER_HOST based configuration  npipe:////./pipe/docker_engine  npipe:////./pipe/dockerDesktopLinuxEngine  swarm
desktop-linux       moby                7e74bc0a-b76c-0c40-11c2-778ea7356a8b@eastus
saisinduacicontext  aci                7e74bc0a-b76c-0c40-11c2-778ea7356a8b@eastus

C:\Users\admin>
```

9.TO RUN A CONATINER

COMMAND:docker --context myacicontext run -p 80:80 nginx

```
Select Command Prompt - docker --context saisinduacicontext run -p 80:80 nginx
C:\Users\admin>docker --context saisinduacicontext run -p 80:80 nginx
+ Running 2/2
- Group exciting-johnson Created 82.6s
- exciting-johnson Created 22.1s
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2022/10/28 08:12:37 [notice] 19#19: using the "epoll" event method
2022/10/28 08:12:37 [notice] 19#19: nginx/1.23.2
2022/10/28 08:12:37 [notice] 19#19: built by gcc 10.2.1 20210110 (Debian 10.2.1-6)
2022/10/28 08:12:37 [notice] 19#19: OS: Linux 5.10.102.2-microsoft-standard
2022/10/28 08:12:37 [notice] 19#19: getrlimit(RLIMIT_NOFILE): 1024:1048576
2022/10/28 08:12:37 [notice] 19#19: start worker processes
2022/10/28 08:12:37 [notice] 19#19: start worker process 46
```


10.VIEWING THE PORTS AND TO LIST THE CONTAINERS RUNNING ON ACI

COMMAND:docker context use myacicontext

docker ps

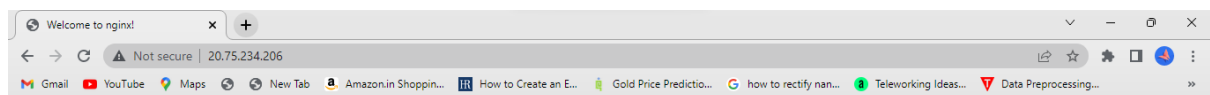
```
Command Prompt
Microsoft Windows [Version 10.0.22000.1098]
(c) Microsoft Corporation. All rights reserved.

C:\Users\admin>docker context use saisinduacicontext
saisinduacicontext

C:\Users\admin>docker ps
CONTAINER ID   IMAGE      COMMAND                  STATUS    PORTS
exciting-johnson  nginx     nginx                    Running   20.75.234.206:80->80/tcp

C:\Users\admin>
```

11.VIEWING THE WEBISTE WITH THE PORT(http://20.75.234.206)



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.



nginx news

Managing Kubernetes Traffic with F5 NGINX
[Download the Guide](#)

nginx news

2022-10-25 [njs-0.7.8](#) version has been [released](#), featuring the [js_preload_object](#) directive.

2022-10-19 [nginx-1.22.1](#) stable and [nginx-1.23.2](#) mainline versions have been released, with a fix for the [memory corruption and memory disclosure](#) vulnerabilities in the ngx_http_mp4_module (CVE-2022-41741, CVE-2022-41742).

2022-09-13 [unit-1.28.0](#) version has been [released](#).

2022-08-30 [njs-0.7.7](#) version has been [released](#), featuring advanced [js](#) API and [extended js directives scope](#).

2022-07-19 [nginx-1.23.1](#) mainline version has been released.

2022-07-19 [njs-0.7.6](#) version has been [released](#), featuring improved [r_args](#) object.

2022-06-21 [nginx-1.23.0](#) mainline version has been released.

2022-06-21 [njs-0.7.5](#) version has been [released](#).

2022-06-02 [unit-1.27.0](#) version has been [released](#).

2022-05-24 [njs-0.7.4](#) version has been [released](#), featuring extended directives for [Fetch](#) API: [js_fetch_timeout](#), [js_fetch_verify](#), [js_fetch_buffer_size](#), [js_fetch_max_response_buffer_size](#).

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Why Are You on this Page?

Are you an online surfer trying to visit your favorite website and somehow ended up on this page?

Don't worry – NGINX software has not been installed on your computer and it is not a virus. The website you're trying to access uses NGINX as its web server and is likely experiencing technical issues. The problem may also be on your computer; [here are some troubleshooting tips](#).

Are you a website operator getting started?