

Module 5: Assignment - 1

Azure 104 Certification Course



Tasks To Be Performed:

1. Install a Docker using VM
2. Pull hshar/webapp (<https://hub.docker.com/r/hshar/webapp>) repository
3. Create a new file in this repository

Launch Ubuntu Virtual Machine

[Home](#) > [Virtual machines](#) >

Create a virtual machine

[Basics](#) | [Disks](#) | [Networking](#) | [Management](#) | [Monitoring](#) | [Advanced](#) | [Tags](#) | [Review + create](#)

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#)

Subscription * ⓘ
Resource group * ⓘ
[Create new](#)

Instance details

Virtual machine name * ⓘ

Region * ⓘ

Availability options ⓘ

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

Create a virtual machine

Security type ⓘ

Image * ⓘ
[See all images](#) | [Configure VM generation](#)
☒ This image is compatible with additional security features. [Click here to swap to the Trusted launch security type.](#)

VM architecture ⓘ ☐ Arm64 ☒ x64

Run with Azure Spot discount ⓘ ☐

Size * ⓘ
[See all sizes](#)

Enable Hibernation ⓘ ☐

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[Home](#) > [Virtual machines](#) >

Create a virtual machine

Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernate to enable this feature. [Learn more](#)

Administrator account

Authentication type ⓘ

☐ SSH public key

☒ Password

Username * ⓘ

Password *

Confirm password *

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports * ⓘ

☐ None

☒ Allow selected ports

Select inbound ports *

All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM's > Networking pane.

< Previous

Next : Disks >

Review + create

✓ Validation passed

BasicsDisksNetworkingManagementMonitoringAdvancedTagsReview + create

Price

1 X Standard B1s
by Microsoft
[Terms of use](#) [Privacy policy](#)

Subscription credits apply ⓘ
1.0815 INR/hr
[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Name

Preferred e-mail address

Preferred phone number

< Previous

Next >

Create

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-j...
Subscription: [Free Trial](#)
Resource group: [DemoRG](#)

Start time: 8/13/2024, 6:13:57 PM
Correlation ID: 25c8b3dd-c0ce-46be-a4a3-48ef9d855fa5

Deployment details

Next steps

[Setup auto-shutdown](#) Recommended

[Monitor VM health, performance and network dependencies](#) Recommended

[Run a script inside the virtual machine](#) Recommended

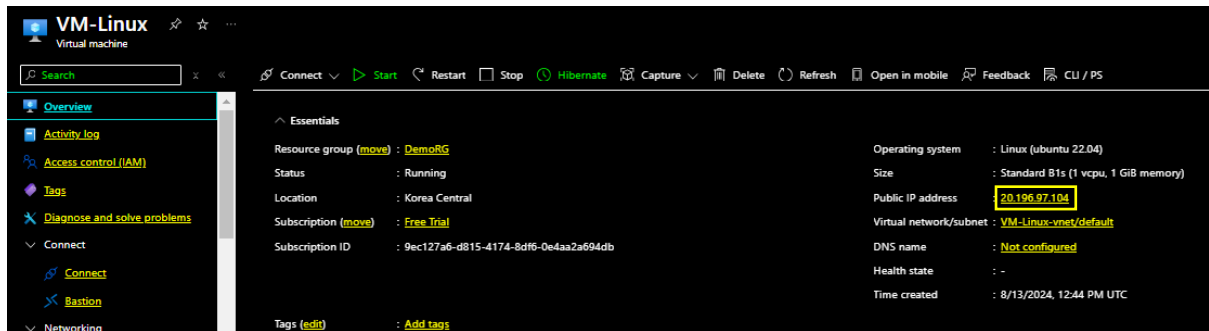
Go to resource

Create another VM

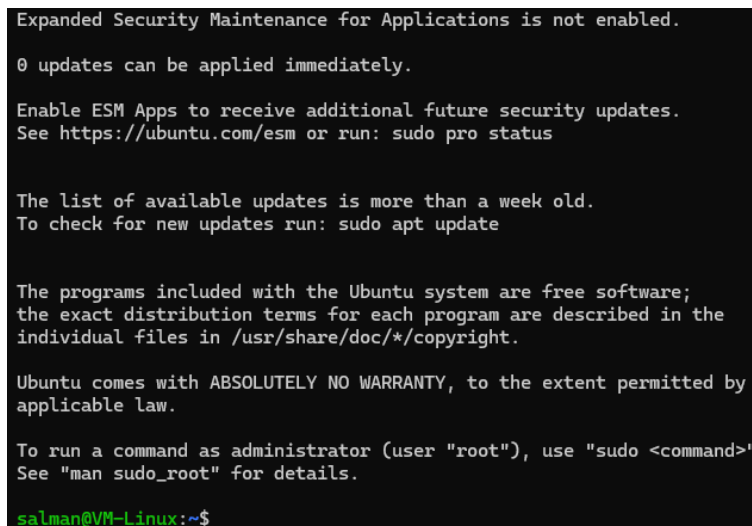
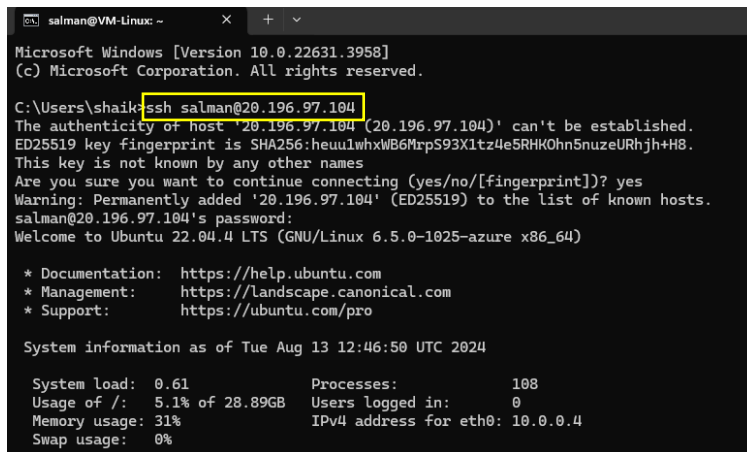
Give feedback

[Tell us about your experience with deployment](#)

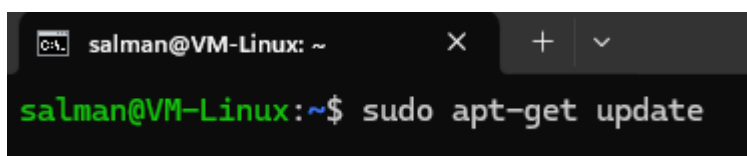
Copy the Public IP



Connecting to linux machine on using cmd



Update it



Installing docker on ubuntu

```
salman@VM-Linux: ~  
salman@VM-Linux:~$ sudo apt-get install docker.io  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following additional packages will be installed:  
  bridge-utils containerd dns-root-data dnsmasq-base pigz runc ubuntu-fan  
Suggested packages:  
  ifupdown aufs-tools cgroupfs-mount | cgroup-lite debootstrap docker-doc rinse zfs-fuse | zfsutils  
The following NEW packages will be installed:  
  bridge-utils containerd dns-root-data dnsmasq-base docker.io pigz runc ubuntu-fan  
0 upgraded, 8 newly installed, 0 to remove and 16 not upgraded.  
Need to get 75.5 MB of archives.  
After this operation, 284 MB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 http://azure.archive.ubuntu.com/ubuntu jammy/universe amd64 pigz amd64 2.6-1 [63.6 kB]  
Get:2 http://azure.archive.ubuntu.com/ubuntu jammy/main amd64 bridge-utils amd64 1.7-1ubuntu3 [34.4 kB]  
Get:3 http://azure.archive.ubuntu.com/ubuntu jammy-updates/main amd64 runc amd64 1.1.12-0ubuntu2~22.04.1 [8405 kB]  
Get:4 http://azure.archive.ubuntu.com/ubuntu jammy-updates/main amd64 containerd amd64 1.7.12-0ubuntu2~22.04.1 [37.8 MB]  
Get:5 http://azure.archive.ubuntu.com/ubuntu jammy-updates/main amd64 dns-root-data all 2023112702~ubuntu0.22.04.1 [5136 B]  
Get:6 http://azure.archive.ubuntu.com/ubuntu jammy-updates/main amd64 dnsmasq-base amd64 2.90-0ubuntu0.22.04.1 [374 kB]  
Get:7 http://azure.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 docker.io amd64 24.0.7-0ubuntu2~22.04.1 [28.8 MB]  
Get:8 http://azure.archive.ubuntu.com/ubuntu jammy/universe amd64 ubuntu-fan all 0.12.16 [35.2 kB]  
Fetched 75.5 MB in 3s (26.0 MB/s)  
Preconfiguring packages ...  
Selecting previously unselected package pigz.  
(Reading database ... 85%
```

Pulling the image from the docker given image in the Assignment

```
salman@VM-Linux: ~  
salman@VM-Linux:~$ sudo docker pull hshar/webapp  
Using default tag: latest  
latest: Pulling from hshar/webapp  
a48c500ed24e: Pull complete  
1e1de00ff7e1: Pull complete  
0330ca45a200: Pull complete  
471db38bcfbf: Pull complete  
0b4aba487617: Pull complete  
c2e32ec79cfd: Pull complete  
a18d6ba75273: Pull complete  
4c2cc0ff3ce8: Pull complete  
Digest: sha256:3c7cbcab1a26c01410dcc9cbc57252b50d9ed2f31a2dc24e3f066c61b88e839b  
Status: Downloaded newer image for hshar/webapp:latest  
docker.io/hshar/webapp:latest  
salman@VM-Linux:~$ sudo docker images  
REPOSITORY TAG IMAGE ID CREATED SIZE  
hshar/webapp latest 0cbc1f535ed8 5 years ago 303MB  
salman@VM-Linux:~$
```

And Run in default port 80 and giving image name myazureimage

```
salman@VM-Linux: ~  
salman@VM-Linux:~$ sudo docker run -itd --name myazureimage hshar/webapp  
08e2894e7f37deec069a83703808aef6d1156229f2d574340f8f872b017e2946  
salman@VM-Linux:~$ sudo docker ps  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
08e2894e7f37 hshar/webapp "/bin/sh -c 'apachec..." 31 seconds ago Up 30 seconds 80/tcp myazureimage  
salman@VM-Linux:~$
```

Now going inside the container image and removing default index.php and creating new file with name as index.html

```
root@08e2894e7f37: /var/www X + v
salman@VM-Linux:~$ sudo docker exec -it myazureimage bash
root@08e2894e7f37: /# cd /var/www/html
root@08e2894e7f37: /var/www/html# ls
index.php
root@08e2894e7f37: /var/www/html# rm index.php
root@08e2894e7f37: /var/www/html# ls
root@08e2894e7f37: /var/www/html# nano index.html
```

Data in Inside the file

```
root@08e2894e7f37: /var/www X + v
GNU nano 2.9.3 index.html
This is my New file
<h1>This is My Module-5 Assignment</h1>
```

Exit from container image

```
salman@VM-Linux: ~ X + v
root@08e2894e7f37: /var/www/html# ls
index.html
root@08e2894e7f37: /var/www/html# cat index.html
This is my New file
<h1>This is My Module-5 Assignment</h1>

root@08e2894e7f37: /var/www/html# exit
exit
salman@VM-Linux:~$
```

Module 5: Assignment - 2

Azure 104 Certification Course



Tasks To Be Performed:

1. Create an Azure Container Registry and connect it to Docker running in VM
2. Upload the image you created in this Azure to container registry
3. Create an app service to deploy the same image

Now Creating Container Registry

Microsoft Azure

Upgrade

Search resources, services, and docs (G+)

[Home](#) > [Container registries](#) >

Create container registry

Basics Networking Encryption Tags Review + create

Azure Container Registry allows you to build, store, and manage container images and artifacts in a private registry for all types of container deployments. Use Azure container registries with your existing container development and deployment pipelines. Use Azure Container Registry Tasks to build container images in Azure on-demand, or automate builds triggered by source code updates, updates to a container's base image, or timers. [Learn more](#)

Project details

Subscription ^{*}Free Trial

Resource group ^{*}DemoRG
[Create new](#)

Instance details

Registry name ^{*}conreg13thaug

Location ^{*}Korea Central

Use availability zones [ⓘ]☐
Availability zones are activated on premium registries and in regions that support availability zones. [Learn more](#)

Pricing plan ^{*} [ⓘ]Standard

Review + create

< Previous

Next: Networking >

[Home](#) > [Container registries](#) >

Create container registry

Basics Networking Encryption Tags [Review + create](#)

Validation passed

Registry details

Basics

Registry nameconreg13thaug

SubscriptionFree Trial

Resource GroupDemoRG

LocationKorea Central

Availability zonesDisabled

Pricing planStandard

Networking

Public network accessYes

Encryption

Customer-Managed KeyDisabled

IdentityNone

Key VaultNone

Create

< Previous

Next >

[Download a template for automation](#)

Microsoft Azure

Upgrade

Search resources, services, and docs (G+)

[Home](#) >

Microsoft.ContainerRegistry | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Alerts

Outputs

Templates

✓ Your deployment is complete

Deployment name : Microsoft.ContainerRegistry

Subscription : [Free Trial](#)

Resource group : [DemoRG](#)

Start time : 6/13/2024, 6:40:38 PM

Correlation ID : bf2b5424-2a14-494e-bac8-622b4825ad75

> Deployment details

Next steps

[Go to resource](#)

Give feedback

[Tell us about your experience with deployment](#)

Cost management

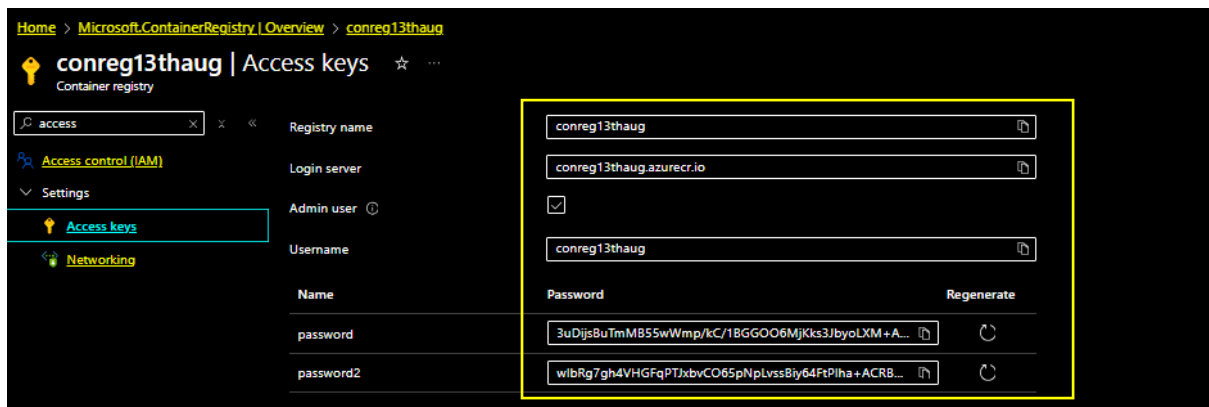
Get notified to stay within your budget and prevent unexpected charges on your bill. [Get an alert when...](#)

Microsoft Defender for Cloud

Secure your apps and infrastructure [Go to Microsoft Defender for Cloud >](#)

Free Microsoft tutorials

Go to inside the Container Registry and search Access key we will use in further process



Now Committing this image with login server of container registry

```
salman@VM-Linux: ~  
salman@VM-Linux:~$ sudo docker images  
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE  
hshar/webapp        latest          0cbc1f535ed8   5 years ago    303MB  
salman@VM-Linux:~$ sudo docker ps  
CONTAINER ID       IMAGE           COMMAND         CREATED         STATUS          PORTS          NAMES  
08e2894e7f37       hshar/webapp   "/bin/sh -c 'a... 19 minutes ago  Up 19 minutes  80/tcp        myazureimage  
salman@VM-Linux:~$ sudo docker commit 08e2894e7f37 conreg13thaug.azurecr.io/myfirstapp  
sha256:0e6e1e5f005b48659952b5cf8d55286f1227157e2a435eace559edb7c1b7396b  
salman@VM-Linux:~$ sudo docker images  
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE  
conreg13thaug.azurecr.io/myfirstapp  latest          0e6e1e5f005b   4 seconds ago  303MB  
hshar/webapp        latest          0cbc1f535ed8   5 years ago    303MB  
salman@VM-Linux:~$
```

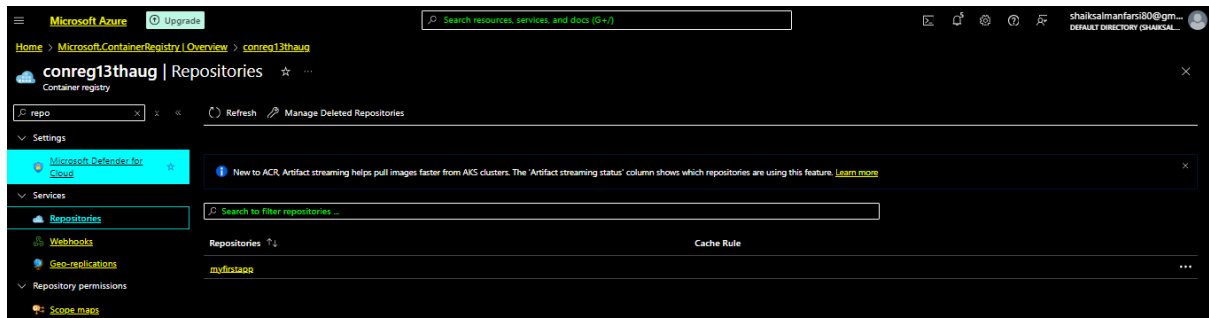
Now Login docker with login server of container registry and username, password

```
salman@VM-Linux: ~  
salman@VM-Linux:~$ sudo docker login conreg13thaug.azurecr.io  
Username: conreg13thaug  
Password:  
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.  
Configure a credential helper to remove this warning. See  
https://docs.docker.com/engine/reference/commandline/login/#credentials-store  
Login Succeeded  
salman@VM-Linux:~$
```

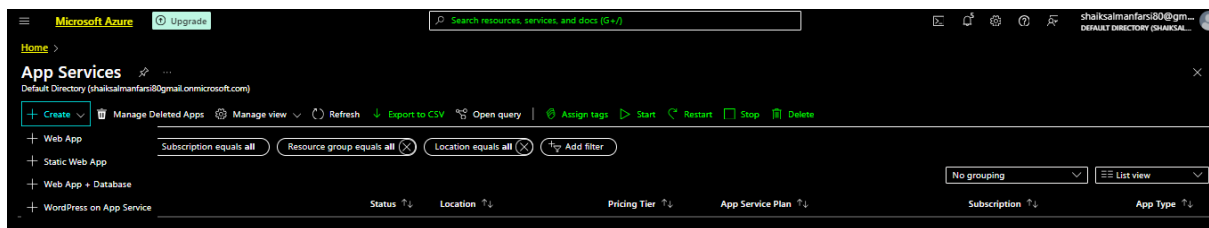
Pushing image into container registry

```
salman@VM-Linux: ~  
salman@VM-Linux:~$ sudo docker push conreg13thaug.azurecr.io/myfirstapp  
Using default tag: latest  
The push refers to repository [conreg13thaug.azurecr.io/myfirstapp]  
9298f92df4fe: Pushed  
f9445cdd87ab: Pushed  
3e59a52a52d1: Pushed  
754d8c63561b: Pushed  
059ad60bcacf: Pushed  
8db5f072feec: Pushed  
67885e448177: Pushed  
ec75999a0cb1: Pushed  
65bdd50ee76a: Pushed  
latest: digest: sha256:32cb548174cc556f9ed97876bb368a0c7ef301c571ee07a7e76c8059f2fab9cc size: 2193  
salman@VM-Linux:~$
```

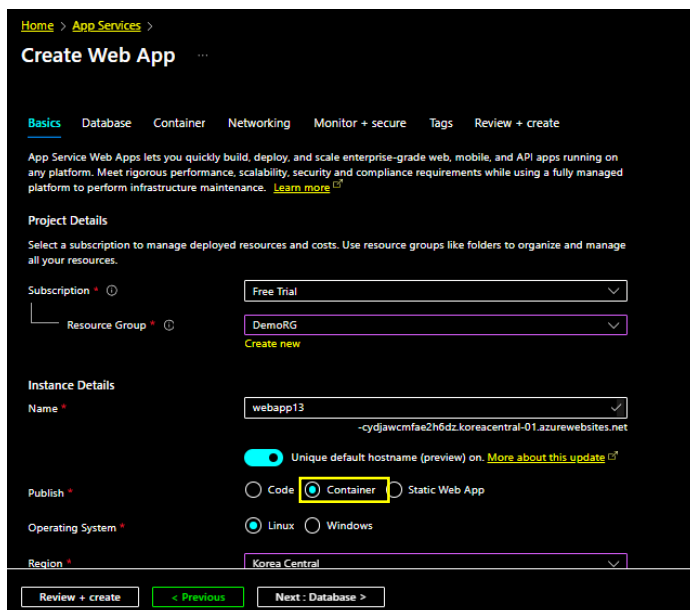
Now we can see myfirstapp in container registry



Now Creating App Services



Select container in publish



We know region korea central

[Home](#) > [App Services](#) >

Create Web App

Region * Korea Central

Not finding your App Service Plan? Try a different region or select your App Service Environment.

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

Linux Plan (Korea Central) * (New) ASP-DemoRG-a64b
[Create new](#)

Pricing plan Basic B1 (100 total ACU, 1.75 GB memory, 1 vCPU)
[Explore pricing plans](#)

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 : Database >](#)

Select Azure Container Registry and single container

[Home](#) > [App Services](#) >

Create Web App

Basics [Database](#) [Container](#) [Networking](#) [Monitor + secure](#) [Tags](#) [Review + create](#)

Select your preferred source for container images. You can change these settings and other dependencies after creating the app. [Learn more](#)

Sidecar support (preview) ☐ Enabled ☒ Disabled

Image Source *

☐ Quickstart

☒ Azure Container Registry

☐ Docker Hub or other registries

Options

☒ Single Container

☐ Docker Compose (Preview)

Azure container registry options

Registry * conreg13thaug

Image * myfirstapp

Tag * latest

Startup Command

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

Create

Home > App Services > Create Web App

Basics Database Container Networking Monitor + secure Tags **Review + create**

Summary

Web App by Microsoft

Basic (B1) sku
Estimated price - 1093.18 INR/Month

Basic authentication for this app is currently disabled and may impact deployments. Click to learn more.

Details

Subscription: 9ec127a6-d815-4174-8df6-0e4aa2a694db
Resource Group: DemoRG
Name: webapp13
Unique default hostname (preview): Enabled
Publish: Container
Image Tag: conreg13thaug.azurecr.io/myfirstapp:latest
Server URL: https://conreg13thaug.azurecr.io

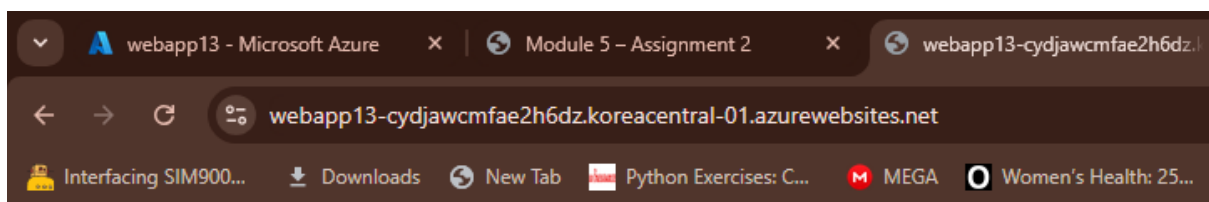
App Service Plan (New)

Name: ASP-DemoRG-a64b

Create < Previous Next > Download a template for automation

Created and Copy that default domain and paste it on the browser

Assignment is completed



This is my New file

This is My Module-5 Assignment