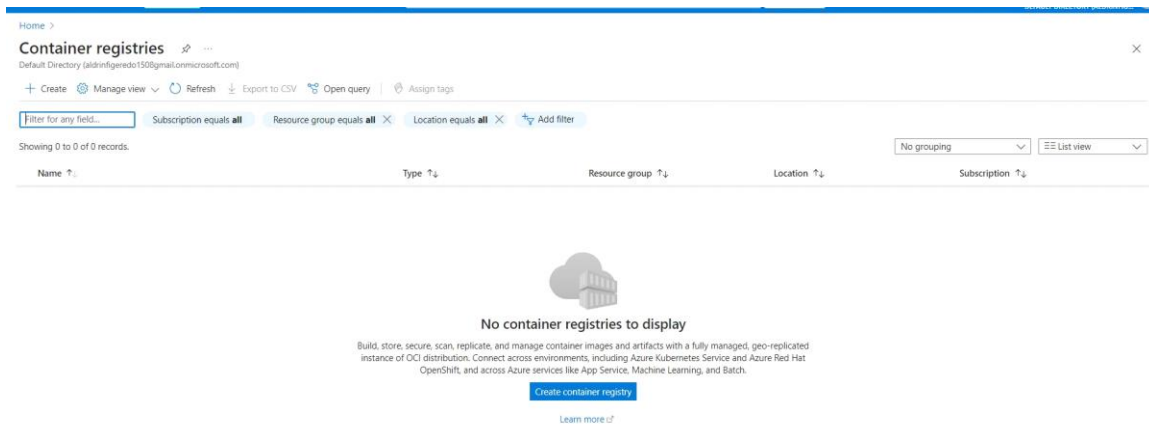# Module 5: Assignment -2

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

Solution:

1. Create an Azure Container Registry and connect it to Docker running in VM

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 *
Module5
Create new

Instance details

Registry name *
acrmodule5
.azurecr.io

Location *
Central India

Use availability zones ⓘ
☐

ℹ Availability zones are activated on premium registries and in regions that support availability zones. Learn more

Pricing plan * ⓘ
Basic

Review + create   < Previous   Next: Networking >

Microsoft.ContainerRegistry | Overview
Deployment

🔍 Search

- Overview
- Inputs
- Outputs
- Template

🗑 Delete ⊘ Cancel Redeploy ⬇ Download ⟳ Refresh

✅ **Your deployment is complete**

Deployment name : Microsoft.ContainerRegistry
Subscription : Free Trial
Resource group : Module5

Start time : 9/5/2024, 11:26:28 PM
Correlation ID : 2b613d25-212b-42b1-be47-40dbd41c9121

> Deployment details

∨ Next steps

Go to resource

Give feedback

⇗ Tell us about your experience with deployment

2. Upload the image you created in this Azure to container registry


```
Jungkook@Module2Vm:~$ sudo docker ps
CONTAINER ID   IMAGE           COMMAND              CREATED         STATUS          PORTS      NAMES
57c381bb1103   hshar/webapp    "/bin/sh -c 'apachec…"  35 minutes ago  Up 35 minutes   80/tcp     myimage
Jungkook@Module2Vm:~$ sudo docker commit 57c381bb1103 acrmodule5.azurecr.io/mod5app
sha256:90398d31b8e3ae7c24a5eee759ce70ee25ea89b07273f05b64c1d047673c4c68
Jungkook@Module2Vm:~$
```

```
Jungkook@Module2Vm:~$ sudo docker images
REPOSITORY                      TAG       IMAGE ID        CREATED            SIZE
acrmodule5.azurecr.io/mod5app   latest    90398d31b8e3    About a minute ago  303MB
hshar/webapp                    latest    0cbc1f535ed8    5 years ago        303MB
Jungkook@Module2Vm:~$
```

```
Jungkook@Module2Vm:~$ sudo docker login acrmodule5.azurecr.io
Username: acrmodule5
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
Jungkook@Module2Vm:~$
```

```
Jungkook@Module2Vm:~$ sudo docker push acrmodule5.azurecr.io/mod5app
Using default tag: latest
The push refers to repository [acrmodule5.azurecr.io/mod5app]
819816369ded: Pushed
f9445cdd87ab: Pushed
3e59a52a52d1: Pushed
754d8c63561b: Pushed
059ad60bcacf: Pushed
8db5f072feec: Pushed
67885e448177: Pushed
ec75999a0cb1: Pushed
65bdd50ee76a: Pushed
latest: digest: sha256:f17fb09dde7e3379a00e7f56b124437818e147ff62fcba837b0252a7fa72a908 size: 2193
Jungkook@Module2Vm:~$
```
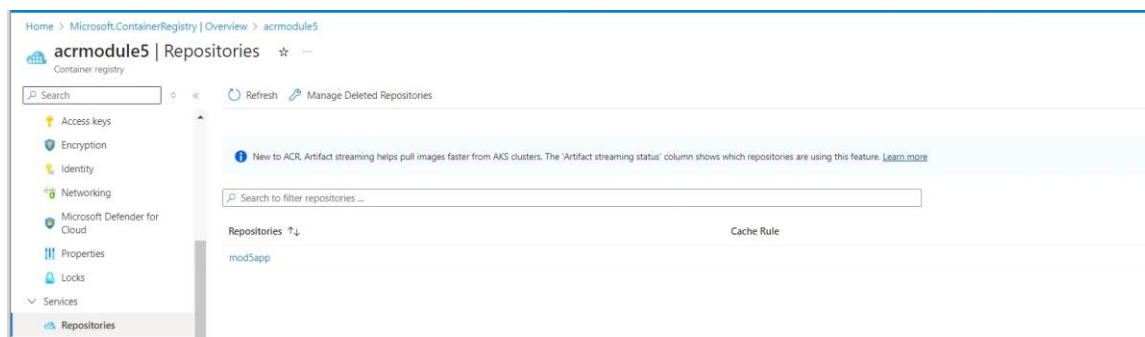

3. Create an app service to deploy the same image
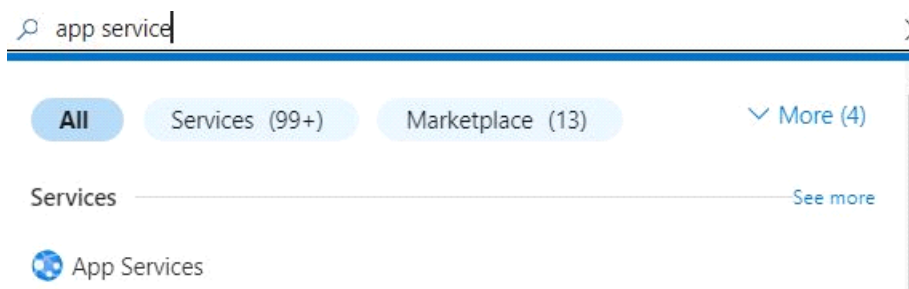
+ Create ∨   🗑 Manage □

| + Web App

Create Web App ⋯

Basics   Database   Container   Networking   Monitor + secure   Tags   Review + create

App Service Web Apps lets you quickly build, deploy, and scale enterprise-grade web, mobile, and API apps running on any platform. Meet rigorous performance, scalability, security and compliance requirements while using a fully managed platform to perform infrastructure maintenance. Learn more ⟗

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

| Free Trial   ∨ |

Resource Group * ⓘ

| Module5   ∨ |

Create new

Instance Details

Name *

| webappmodule5   ✓ |

-fxdje7ceerbkdddb.centralindia-01.azurewebsites.net

🔵 Unique default hostname (preview) on. More about this update ⟗

Publish *   ○ Code   ⦿ Container   ○ Static Web App

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 : Database >

Pricing plans

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app.
Learn more ☐

Linux Plan (Central India) * ⓘ   (New) ASP-Module5-9407   ⌄

Create new

Pricing plan   Free F1 (Shared infrastructure)   ⌄

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 >]

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 *

| acrmodule5 | ⌄ |

Image *

| mod5app | ⌄ |

Tag *

| latest | ⌄ |

Startup Command ⓘ

| Example: /bin/bash; -c; echo hello; sleep 10000 |

| Review + create | | < Previous | | Next : Networking > |

Create Web App ...

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

Summary

🌐 **Web App**
by Microsoft

| **Free sku**
Estimated price - Free

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

Details

Subscription	b38e9b3d-e40f-4a03-9ae8-665ffd950134
Resource Group	Module5
Name	webappmodule5
Unique default hostname (preview)	Enabled
Publish	Container
Image:Tag	acrmodule5.azurecr.io/mod5app:latest
Server URL	https://acrmodule5.azurecr.io

App Service Plan (New)

Name	ASP-Module5-9407
Operating System	Linux
Region	Central India

[**Create**]   [< Previous]   [Next >]   Download a template for automation

Create Web App ...

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

Summary

Web App
by Microsoft

Free sku
Estimated price - Free

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Name	webappmodule5
Unique default hostname (preview)	Enabled
Publish	Container
Image:Tag	acrmodule5.azurecr.io/mod5app:latest
Server URL	https://acrmodule5.azurecr.io

App Service Plan (New)

Name	ASP-Module5-9407
Operating System	Linux
Region	Central India

[**Create**]   [< Previous]   [Next >]   Download a template for automation

Microsoft.Web-WebApp-Portal-19730d24-8d9a | Overview 📌 ⋯
Deployment

🔍 Search   X   «

🗑 Delete   ⊘ Cancel   ⬆ Redeploy   ⬇ Download   ↻ Refresh

- 🟢 **Overview**
- 📄 Inputs
- ≣ Outputs
- 📄 Template

✅ **Your deployment is complete**

Deployment name: Microsoft.Web-WebApp-Portal-19730d24-8d9a
Subscription: Free Trial
Resource group: Module5

Start time: 9/6/2024, 12:00:49 AM
Correlation ID: b1a12dd3-dd9f-46cc-9d81-30a83c1c510c 📋

⌄ Deployment details

⌃ Next steps

Manage deployments for your app.   Recommended
Protect your app with authentication.   Recommended

[Go to resource]

Give feedback

⊞ Tell us about your experience with deployment

App Services 📌 ⋯   ✕
Default Directory (aldrinfigeredo1508gmail.onmicrosoft.com)

+ Create ⌄   🗑 Manage Deleted Apps   ⚙ Manage view ⌄   ↻ Refresh   ⬆ Export to CSV   ⬚ Open query | ⊘ Assign tags   ▷ Start   ↻ Restart   ⬚ Stop   🗑 Delete

Filter for any field... | Subscription equals **all**   Resource group equals **all** ✕   Location equals **all** ✕   +⟲ Add filter

Showing 1 to 1 of 1 records.   No grouping ⌄   ≣ List view ⌄

☐ Name ↑	Status ↑↓	Location ↑↓	Pricing Tier ↑↓	App Service Plan ↑↓	Subscription ↑↓	App Type ↑↓
☐ 🔷 mywebappmodule5	Running	South India	Basic	🔷 ASP-Module5-b274	Free Trial	Web App ⋯

App Services
Default Directory (aldrinfigeredo1508gmail.onmicr...

+ Create ⌄ ⋯

Filter for any field...

Name ↑

🔷 mywebappmodule5   ⋯

◁ Page 1 ⌄ of 1 ▷

🔷 mywebappmodule5 📌 ☆ ⋯   ✕
Web App

🔍 Search   «

- 🟢 Overview
- 📄 Activity log
- 🔑 Access control (IAM)
- 🏷 Tags
- 🩺 Diagnose and solve problems
- 🛡 Microsoft Defender for Cloud
- ⚡ Events (preview)
- 🟢 Better Together (preview)
- 📊 Log stream
- > Deployment
- > Performance
- > Settings
- > App Service plan
- > Development Tools
- > API
- > Monitoring
- > Automation
- > Support + troubleshooting

⬚ Browse   ⬚ Stop   ⇄ Swap   ↻ Restart   🗑 Delete   ↻ Refresh | ⬇ Download publish profile   ⟲ Reset publish profile   📲 Share to mobile   ⋯

⌃ Essentials   JSON View

Resource group (...) : module5
Status   : Running
Location (move)   : South India
Subscription (move)   : Free Trial
Subscription ID   : b38e9b3d-e40f-4a03-9ae8-665ffd950134

Tags (edit)   : Add tags

Default domain   : mywebappmodule5-ctg2cyaahshxe3gy.southindia-01.a...
App Service Plan   : ASP-Module5-b274 (B1: 1)
Operating System   : Linux
Health Check   : Cannot fetch health check data. Please try again later.

Properties   Monitoring   Logs   Capabilities   Notifications   Recommendations

🔷 Web app

Name   mywebappmodule5
Publishing model Container
Container Image   acrmodule5.azurecr.io/mod5app:latest

📋 Domains

Default domain   mywebappmodule5-ctg2cyaahshxe3gy... Show More
Custom domain   Add custom domain

🔷 Hosting

Plan Type   App Service plan
Name   ASP-Module5-b274

THIS IS MY ASSIGNMENT 1 OF MODULE 5