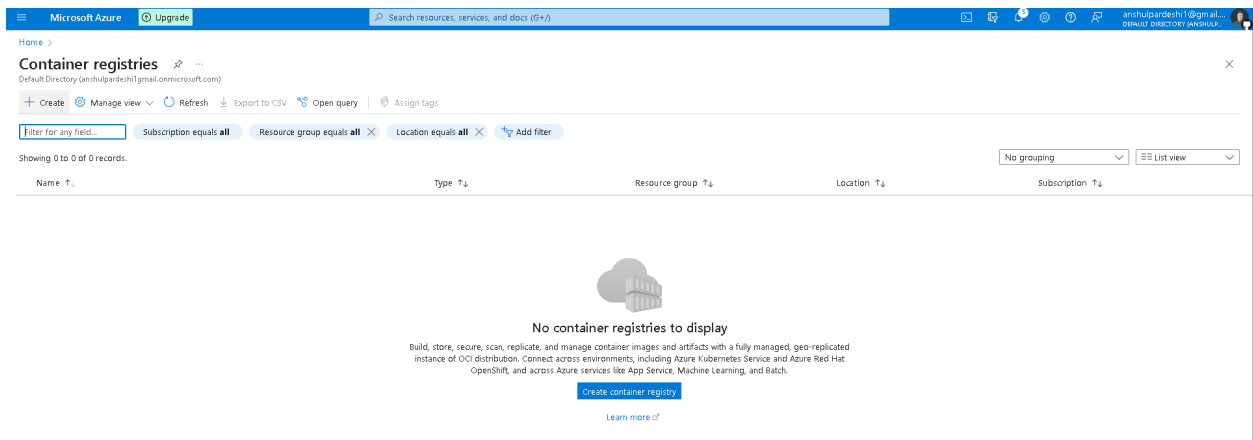


Azure-App-And-Container-Services-2

Do the following:

1. CREATE 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 THE DEPLOY THE SAME IMAGE.

Let us create a container registry first.m Go to search bar search container registry and click on + icon to create.



Microsoft Azure Upgrade Search resources, services, and docs (6+)

Home > Container registries

Default Directory (anshul.pardeshi@gmail.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Resource group equals all Location equals all Add filter

Showing 0 to 0 of 0 records.

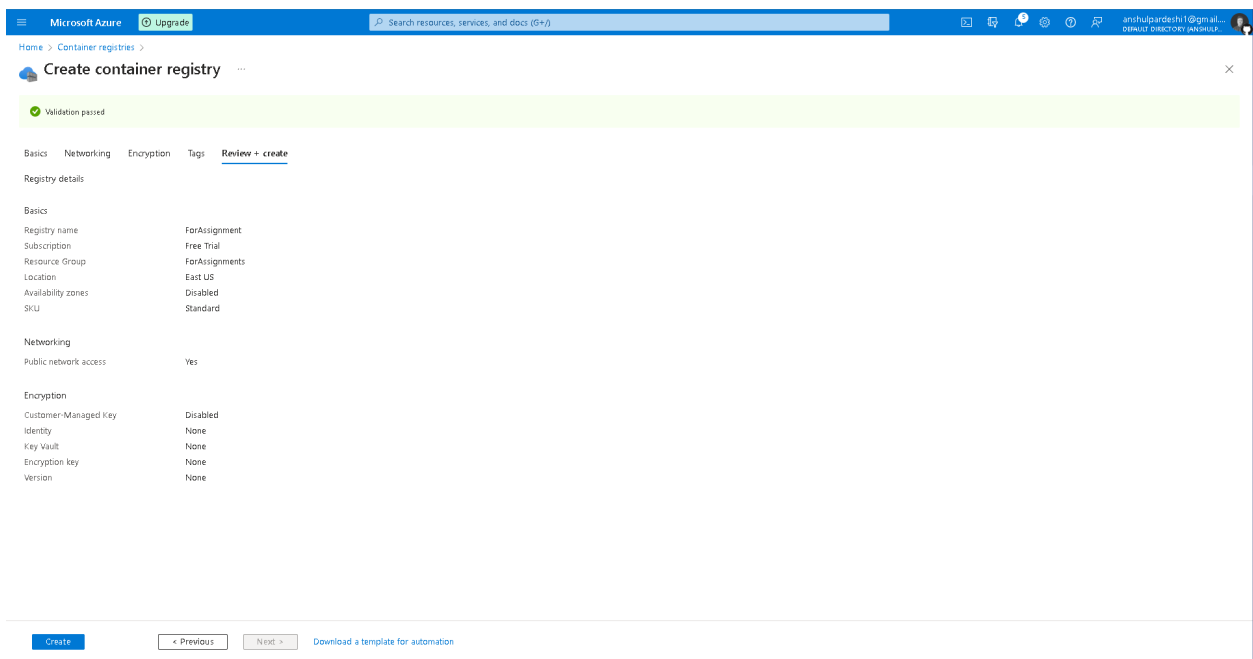
No container registries to display

Build, store, secure, scan, replicate, and manage container images and artifacts with a fully managed, geo-replicated instance of OCI distribution. Connect across environments, including Azure Kubernetes Service and Azure Red Hat OpenShift, and across Azure services like App Service, Machine Learning, and Batch.

Create container registry

Learn more

Just name it and review and create.



Microsoft Azure Upgrade Search resources, services, and docs (6+)

Home > Container registries > Create container registry

Validation passed

Basics Networking Encryption Tags Review + create

Registry details

Basics

Registry name	ForAssignment
Subscription	Free Trial
Resource Group	ForAssignments
Location	East US
Availability zones	Disabled
SKU	Standard

Networking

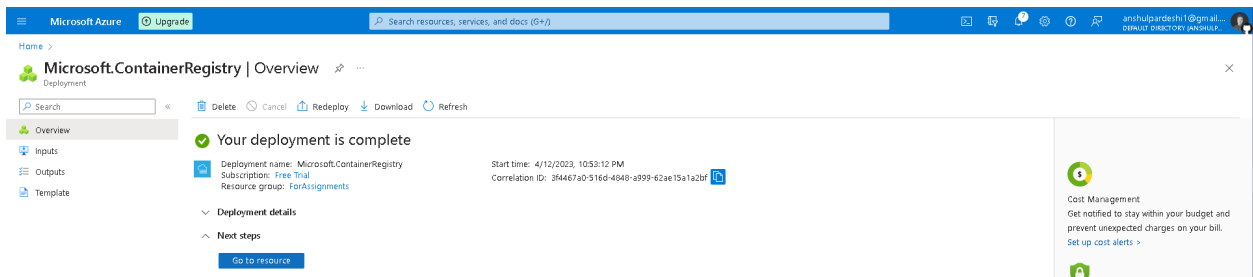
Public network access	Yes
-----------------------	-----

Encryption

Customer-Managed Key	Disabled
Identity	None
Key Vault	None
Encryption key	None
Version	None

Create < Previous Next > Download a template for automation

Deployment is complete. Go to resource.



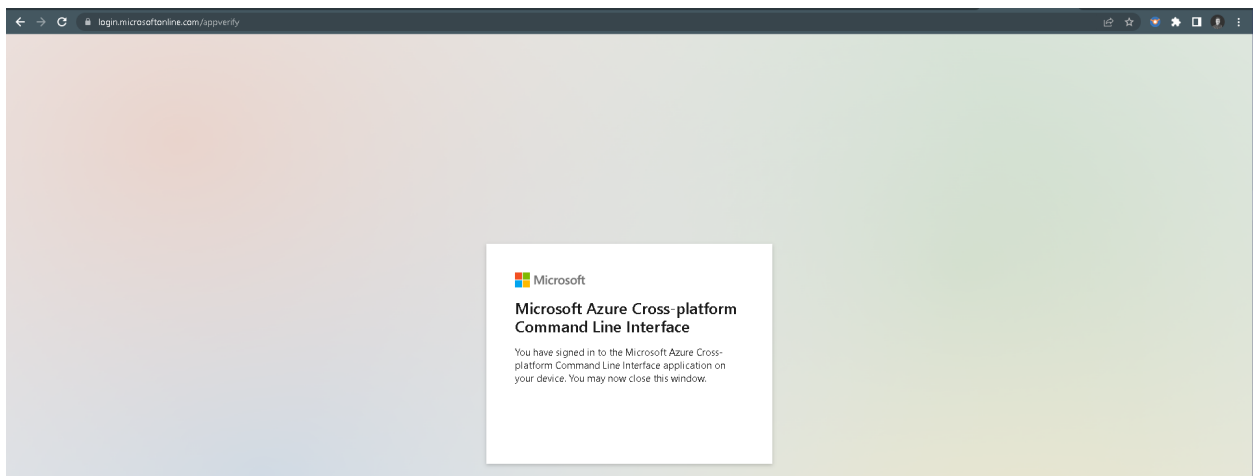
We need to authenticate to container registry. For this:

First use command: sudo az login

Then copy the link and paste it in browser.

```
ByUser@vm-11-f:~$ sudo az login
To sign in, use a web browser to open the page https://microsoft.com/devicelogin and enter the code P46FZDZINT to authenticate.
{
  "cloudName": "AzureCloud",
  "homeTenantId": "71ad7b4c-da5b-4f2d-8fd7-731d76336e18",
  "id": "5b06683f-3e72-4b4d-9c0b-70f40d8b4c0b",
  "isDefault": true,
  "managedByTenants": [],
  "name": "Free Trial",
  "state": "Enabled",
  "tenantId": "71ad7b4c-da5b-4f2d-8fd7-731d76336e18",
  "user": {
    "name": "anahulpardeshi1@gmail.com",
    "type": "user"
  }
}
```

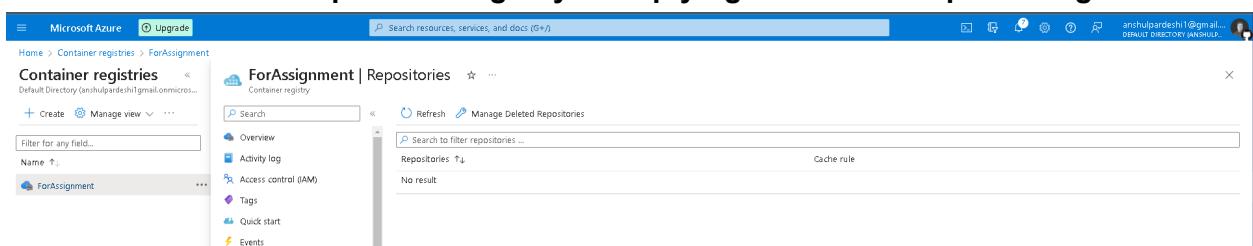
Provide credentials and you will be logged in.



Now use command: az acr login --name <registry-name>

```
ByUser@vm-11-f:~$ sudo az acr login --name ForAssignment
Uppercase characters are detected in the registry name. When using its server url in docker commands, to avoid authentication errors, use all lowercase.
Login Succeeded
ByUser@vm-11-f:~$
```

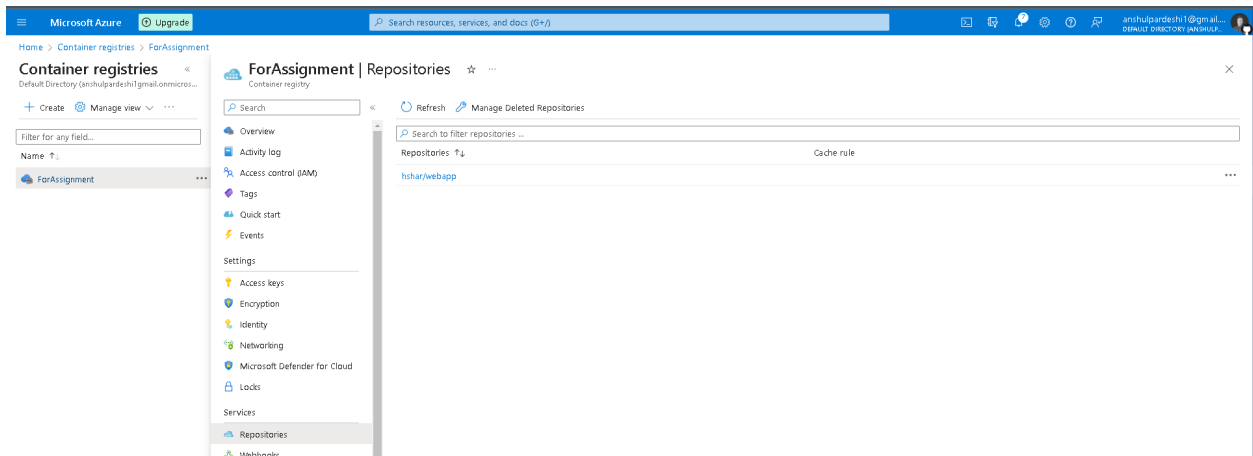
You can see the repo in the registry is empty right now. Let us push image in it.



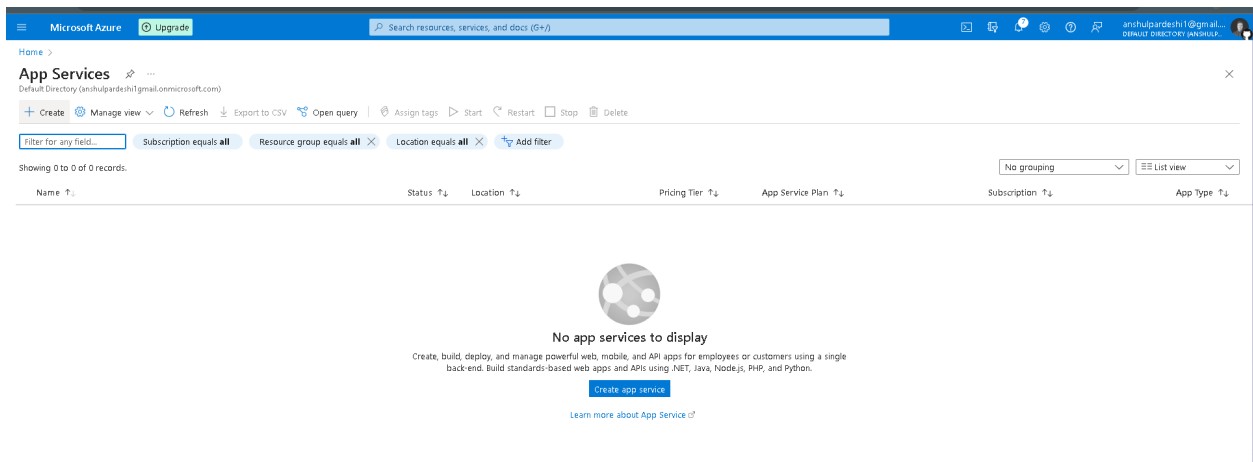
First tag the image using:
docker tag <image-name> <registry-name>.azurecr.io/<image-name>
Then push it using:
docker push <registry-name>.azurecr.io/<image-name>

```
RegistryName: azurecr.io
Login Succeeded
MyUser@vm-11-i-1:~$ ls
MyUser@vm-11-i-1:~$ sudo docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
af19a0b4050        0cb01f555ed9       "/bin/sh -c 'apachec"   3 hours ago         Up 3 hours          80/tcp             nostalgic_saba
d15d87a959a        hahar/webapp       "/bin/sh -c 'apachec"   3 hours ago         Up 3 hours          80/tcp             tender_hamilton
MyUser@vm-11-i-1:~$ sudo docker push forassignment.azurecr.io/hahar/webapp
Using default tag: latest
The push refers to repository [forassignment.azurecr.io/hahar/webapp]
An image does not exist locally with the tag: forassignment.azurecr.io/hahar/webapp
MyUser@vm-11-i-1:~$ docker tag hahar/webapp forassignment.azurecr.io/hahar/webapp
WARNING: Error loading config file: /home/MyUser/.docker/config.json: open /home/MyUser/.docker/config.json: permission denied
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Post "http://v2FvAr2Frmh2Fdocker.sock/v1.24/images/hahar/webapp/tag?repo=forassignment.azurecr.io%2Fhahar%2Fwebapp&tag=latest": dial
unix /var/run/docker.sock: connect: permission denied
MyUser@vm-11-i-1:~$ sudo docker tag hahar/webapp forassignment.azurecr.io/hahar/webapp
MyUser@vm-11-i-1:~$ sudo docker push forassignment.azurecr.io/hahar/webapp
Using default tag: latest
The push refers to repository [forassignment.azurecr.io/hahar/webapp]
f9445cdd87ab: Pushed
7659a52a8381: Pushed
724dc63561b: Pushed
059ad602acaf: Pushed
8b1540724ee0: Pushed
67085e440177: Pushed
ec75999a0cb1: Pushed
0ad402ae76a: Pushed
latest: digest: sha256:3c7cbcab1a2601410d0c9cbe57252b50d9ed2f31a2dc24e3f066c61b80e039b size: 1985
MyUser@vm-11-i-1:~$
```

Now, can check repo in container registry for pushed image.
It is present!



Let us deploy an app service now.
For that search for App Service and click on + icon to create new.



Fill in the basic details. In publish section choose Docker Container.

This screenshot shows the 'Create Web App' form in the Microsoft Azure portal, specifically the 'Basics' tab. The form is for creating a new App Service Web App. The 'Subscription' is set to 'Free Trial' and the 'Resource Group' is 'ForAssignments'. The 'Instance Details' section shows the 'Name' as 'forassignment', 'Publish' as 'Docker Container', 'Operating System' as 'Linux', and 'Region' as 'East US'. The 'Pricing plans' section shows the 'Linux Plan (East US)' and 'Basic B1' pricing plan. The 'Zone redundancy' section is at the bottom with 'Review + create' and 'Next: Docker >' buttons.

Microsoft Azure Upgrade Search resources, services, and docs (5+)

Home > App Services > Create Web App

Basics Docker Networking Monitoring 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 * ForAssignments [Create new](#)

Instance Details

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

Name * forassignment [azurewebsites.net](#)

Publish * ☐ Code ☒ Docker Container ☐ Static Web App

Operating System * ☒ Linux ☐ Windows

Region * East US [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 (East US) * (New) ASP-ForAssignments-92b4 [Create new](#)

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

Zone redundancy

[Review + create](#) < PREVIOUS Next: Docker >

Click on next to Docker. Select Image source as Azure Container Service Registry.

This screenshot shows the 'Create Web App' form in the Microsoft Azure portal, specifically the 'Docker' tab. The 'Options' section shows 'Single Container'. The 'Image Source' is set to 'Azure Container Registry'. The 'Azure container registry options' section shows the 'Registry' as 'ForAssignment', 'Image' as 'hshar/webapp', and 'Tag' as 'latest'. The 'Startup Command' field is empty.

Microsoft Azure Upgrade Search resources, services, and docs (5+)

Home > Create Web App

Basics Docker Networking Monitoring Tags Review + create

Pull container images from Azure Container Registry, Docker Hub or a private Docker repository. App Service will deploy the containerized app with your preferred dependencies to production in seconds.

Options Single Container

Image Source Azure Container Registry

Azure container registry options

Registry * ForAssignment

Image * hshar/webapp

Tag * latest

Startup Command

Note: Make sure Admin User is enabled in Container registry in Access keys.

This screenshot shows the 'ForAssignment' Container registry 'Access keys' page in the Microsoft Azure portal. The 'Access keys' section shows the 'Admin user' is 'Enabled'. The 'Registry name' is 'ForAssignment', 'Login server' is 'forassignment.azurecr.io', and 'Username' is 'ForAssignment'.

Microsoft Azure Upgrade Search resources, services, and docs (5+)

Home > Container registries > ForAssignment

Container registries < ForAssignment | Access keys ☆

Default Directory (anshupardeshi1@gmail.com)...

+ Create Manage view

Filter for any field...

Name * ForAssignment

Overview Activity log Access control (IAM) Tags

ForAssignment | Access keys

Registry name ForAssignment

Login server forassignment.azurecr.io

Admin user: ☒ Enabled

Username ForAssignment

Then Review and create.

The screenshot shows the 'Create Web App' wizard in the Microsoft Azure portal, specifically the 'Review + create' tab. The interface includes a top navigation bar with the Azure logo, 'Upgrade' button, and search bar. The main content area is divided into sections: 'Summary', 'Details', 'App Service Plan (New)', 'Monitoring', and 'Deployment'. The 'Summary' section shows the 'Web App by Microsoft' icon and the 'Basic (B1) sku' with an estimated price. The 'Details' section lists subscription, resource group, name, publish, image tag, and server URL. The 'App Service Plan (New)' section shows the plan name, operating system, region, SKU, size, and memory. The 'Monitoring' and 'Deployment' sections show their respective settings. At the bottom, there are buttons for 'Create', '< Previous', 'Next >', and a link to 'Download a template for automation'.

Deployment is complete. Go to resource.

The screenshot shows the 'Overview' page for a deployed Web App in the Microsoft Azure portal. The page title is 'Microsoft.Web-WebApp-Portal-1f044cc9-8227 | Overview'. The main content area features a green checkmark and the text 'Your deployment is complete'. Below this, it lists deployment details: 'Deployment name: Microsoft.Web-WebApp-Portal-1f044cc9-8227', 'Subscription: Free Trial', and 'Resource group: ForAssignments'. It also shows the start time and correlation ID. A 'Next steps' section provides links to 'Manage deployments for your app', 'Protect your app with authentication', and 'Go to resource'. On the right, there are three informational cards: 'Cost Management', 'Microsoft Defender for Cloud', and 'Free Microsoft tutorials'. The left sidebar contains navigation links for 'Overview', 'Inputs', 'Outputs', and 'Template'.

Copy the default domain and paste it in browser.

The screenshot shows the 'Properties' page for a Web App in the Microsoft Azure portal. The page title is 'forassignment | Overview'. The main content area displays various properties and settings. The 'Essentials' section shows the resource group, status, location, subscription, and subscription ID. The 'Properties' section lists the 'Web app' name, publishing model, and container image. The 'Domains' section shows the default domain and a link to add a custom domain. The 'Hosting' section shows the plan type. On the right, there are four informational cards: 'Deployment Center', 'Application Insights', 'Networking', and 'JSON View'. The left sidebar contains navigation links for 'Overview', 'Activity log', 'Access control (IAM)', 'Tags', 'Diagnose and solve problems', 'Microsoft Defender for Cloud', 'Events (preview)', 'Deployment', 'Deployment slots', 'Deployment Center', 'Settings', 'Configuration', 'Authentication', 'Application Insights', 'Identity', 'Backups', 'Custom domains', 'Certificates', and 'Networking'.

Image has been deployed

forassignment.azurewebsites.net

Submit