

Push and Pull Docker Image to Docker Hub and Azure Container Registry (ACR)

1. Docker Hub

Step 1: Login to Docker Hub

docker login

- This command will prompt you to enter your Docker Hub **username** and **password**.

Step 2: Tag Your Docker Image

Format:

docker tag <local-image-name> <dockerhub-username>/<repository-name>:<tag>

Example:

docker tag my-python-app adityapal/my-python-app:v1

Step 3: Push the Image

docker push adityapal/my-python-app:v1

Step 4: Pull the Image (from any machine)

docker pull adityapal/my-python-app:v1

2. Azure Container Registry (ACR)

Step 1: Login to Azure CLI

az login

Step 2: Get ACR Login Server

az acr list --resource-group <your-resource-group> --query "[].{acrLoginServer:loginServer}" --output table

Example Output:

acrLoginServer

myregistry.azurecr.io

Step 3: Tag Your Image for ACR

Format:

docker tag <local-image-name> <acr-login-server>/<repository-name>:<tag>

Example:

docker tag my-python-app myregistry.azurecr.io/my-python-app:v1

Step 4: Login to ACR

az acr login --name <your-acr-name>

Example:

```
az acr login --name myregistry
```

Step 5: Push the Image to ACR

```
docker push myregistry.azurecr.io/my-python-app:v1
```

Step 6: Pull the Image from ACR

```
docker pull myregistry.azurecr.io/my-python-app:v1
```

Summary Table

Task	Docker Hub Command	ACR Command
Login	docker login	az login + az acr login --name <acr-name>
Tag Image	docker tag local image dockerhub-user/repo:tag	docker tag local image acr-server/repo:tag
Push Image	docker push dockerhub-user/repo:tag	docker push acr-server/repo:tag
Pull Image	docker pull dockerhub-user/repo:tag	docker pull acr-server/repo:tag