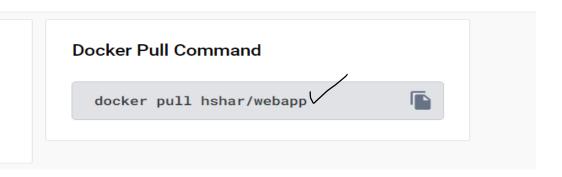
Assignment 1

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

Create the VM with Linux OS – open port http and https both – connect to the machine install docker.

Copy and paste this command into VM to pull docker images.



```
id@Dockervm:~$ 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
id@Dockervm:~$ sudo docker images
REPOSITORY
               TAG
                         IMAGE ID
                                        CREATED
                                                      SIZE
hshar/webapp
              latest
                         0cbc1f535ed8
                                                       303MB
                                        4 years ago
sid@Dockervm:~$ _
```

```
sid@Dockervm:~$ history
   1  sudo apt-get update -y
   2  sudo apt-get install docker.io -y
   3  which docker
   4  sudo service docker status
   5  sudo docker pull hshar/webapp
   6  sudo docker images
   7  sudo docker ps -a
   8  history
sid@Dockervm:~$
```

```
sid@Dockervm:~$ sudo docker run -itd --name dockervm hshar/webapp
                                                                      Create container for image
570f22c88d5e9be6cd617ea1db71750da3a739f429e4e6296901da6de48485a1
sid@Dockervm:~$ sudo docker ps -a
CONTAINER ID IMAGE
                              COMMAND
                                                        CREATED
                                                                          STATUS
                                                                                           PORTS
                                                                                                     NAMES
570f22c88d5e
               hshar/webapp "/bin/sh -c 'apachec..."
                                                        12 seconds ago Up 11 seconds
                                                                                           80/tcp
                                                                                                     dockervm
sid@Dockervm:~$ sudo docker exec -it dockervm bash
                                                      To get inside container for do some changes
root@570f22c88d5e:/#
```

```
root@570f22c88d5e:/# cd /var/www/html
root@570f22c88d5e:/var/www/html# ls
index.php
root@570f22c88d5e:/var/www/html# rm index.php
root@570f22c88d5e:/var/www/html# ls
root@570f22c88d5e:/var/www/html# nano index.html
root@570f22c88d5e:/var/www/html# ls
index.html
root@570f22c88d5e:/var/www/html# exit
exit
sid@Dockervm:~$ _
```

Assignment 2

Tasks To Be Performed:

- 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

Search for container registry and create

Home > Container registries >

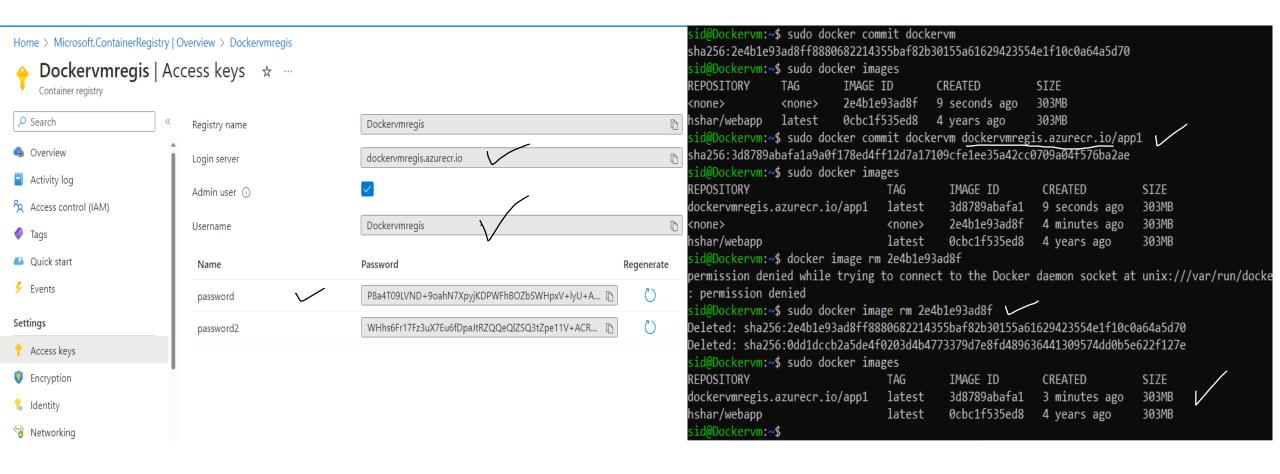


Create container registry

zure Container Registry allow pes of container deploymen pelines. Use Azure Containe	encryption Tags Review + create ws you to build, store, and manage container images and artifacts in nts. Use Azure container registries with your existing container develor er Registry Tasks to build container images in Azure on-demand, or a sto a container's base image, or timers. Learn more	opment and deployment
oject details		
ubscription *	Free Trial	~
Resource group *	22-01-24 Create new	~
stance details		
	Dockervmregis	
gistry name *	Dockervillegis	
gistry name *	Dockervillegis	.azurecr.io
	East US	.azurecr.io
cation *		1
gistry name * cation * se availability zones ①		~

For creating a new repo using container registry we have to copy the login server and paste into VM

Using other credential login into repository.

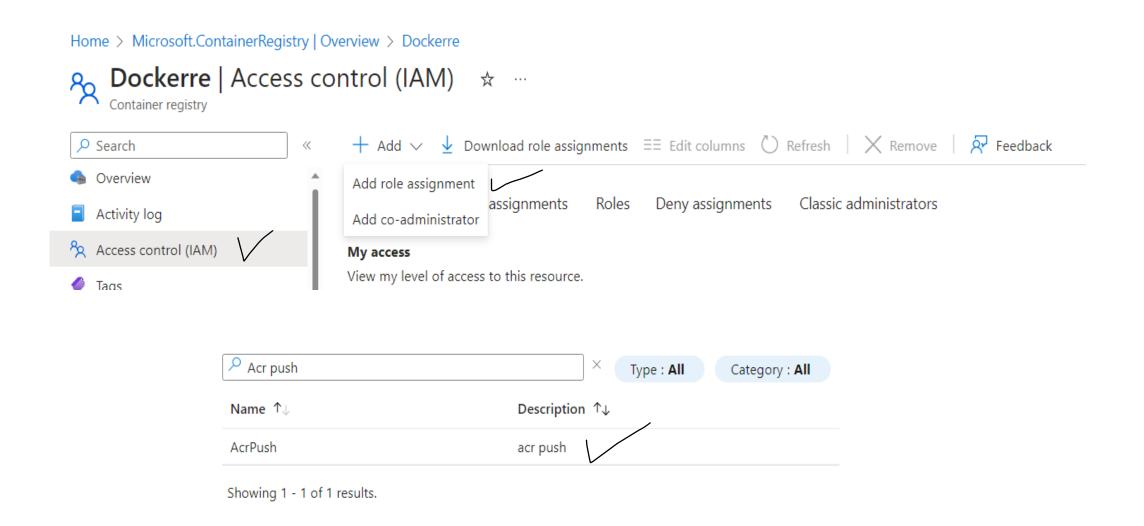


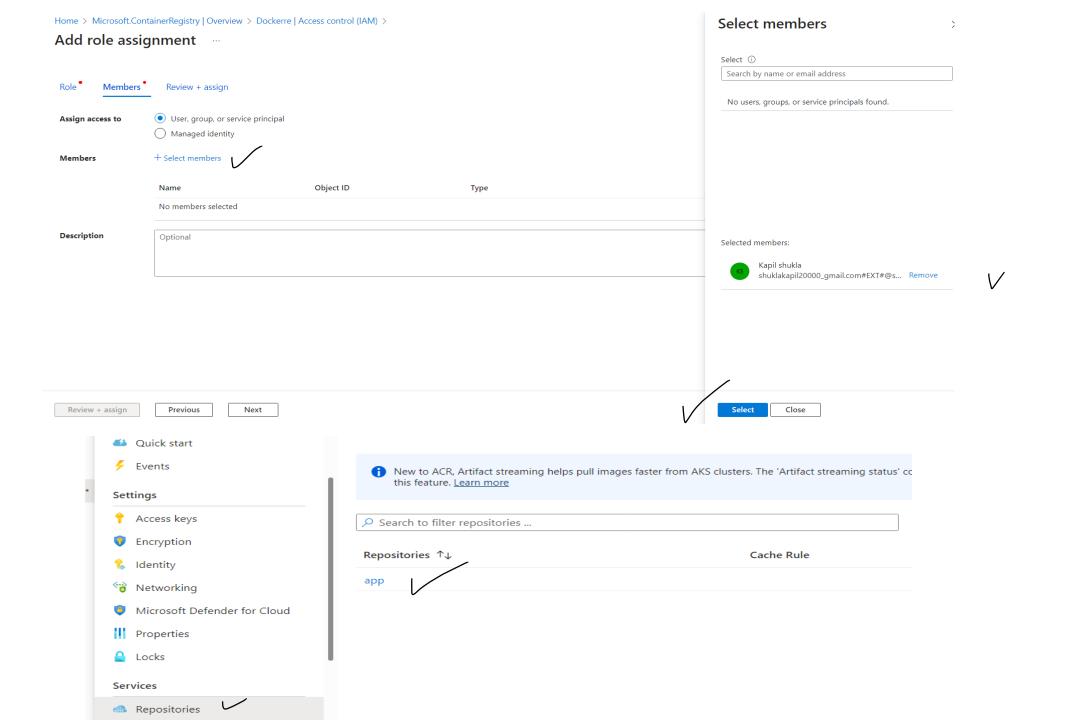
```
sid@Dockervm:~$ sudo docker login dockervmregis.azurecr.io
Username: Dockervmregis
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store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

```
id@Dockervm:~$ sudo docker ps -a
 ONTAINER ID IMAGE
                                                      CREATED
                                                                       STATUS
                                                                                        PORTS
                                                                                                  NAMES
d79102ba1d38 hshar/webapp "/bin/sh -c 'apachec..."
                                                      43 seconds ago Up 41 seconds
                                                                                       80/tcp
                                                                                                  dockervm
 id@Dockervm:~$ sudo docker exec -it dockervm bash
 oot@d79102ba1d38:/# cd /var/www/html
root@d79102ba1d38:/var/www/html# ls
index.php
root@d79102ba1d38:/var/www/html# rm index.php
root@d79102ba1d38:/var/www/html# ls
root@d79102ba1d38:/var/www/html# nano index.html
oot@d79102ba1d38:/var/www/html# exit
exit
 id@Dockervm:~$ sudo docker commit dockerre.azurecr.io/app
Error response from daemon: No such container: dockerre.azurecr.io/app
 id@Dockervm:~$ sudo docker commit d79102ba1d38 dockerre.azurecr.io/app
sha256:bf9b3e6dd5a340ab7b6c7f1a98bb083def9e4ce4f02a935c61af3bc3f3cda651
 id@Dockervm:~$ sudo docker ps -a
                                                      CREATED
CONTAINER ID IMAGE
                             COMMAND
                                                                       STATUS
                                                                                        PORTS
                                                                                                  NAMES
d79102ba1d38 hshar/webapp "/bin/sh -c 'apachec..." 11 minutes ago Up 11 minutes
                                                                                       80/tcp
                                                                                                  dockervm
 id@Dockervm:~$ sudo docker images
REPOSITORY
                                   IMAGE ID
                                                  CREATED
                                                                   SIZE
                          TAG
dockerre.azurecr.io/app latest
                                   bf9b3e6dd5a3 19 seconds ago
                                                                   303MB
hshar/webapp
                         latest
                                   0cbc1f535ed8 4 years ago
 id@Dockervm:~$ sudo docker login dockerre.azurecr.io
Username: Dockerre
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
ogin Succeeded
 id@Dockervm:~$ sudo docker push dockerre.azurecr.io/app
Using default tag: latest
The push refers to repository [dockerre.azurecr.io/app]
 6242f275ba6: Pushed
f9445cdd87ab: Pushed
3e59a52a52d1: Pushed
754d8c63561b: Pushed
059ad60bcacf: Pushed
8db5f072feec: Pushed
67885e448177: Pushed
ec75999a0cb1: Pushed
65bdd50ee76a: Pushed
latest: digest: sha256:d325e6adc19c27e534a09824397da868872f42798346e5e9b46fc99babd0d96e size: 2193
 id@Dockervm:~$ _
```

Change app1 to app

If pushed repo not visible in repo section of container registry then create a assignment role – Search for ACR push – next - select members – choose email id- Review and Assign





For creating the app service search for APP service – create – choose web app

Home > Default Directory + Web App Resource group equals all X Subscription equals all + Static Web App + Web App + Database Status ↑↓ Location ↑↓ → WordPress on App Service Home > App Services > Create Web App Database Docker Networking Monitoring 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 Azure Container Registry Image Source Azure container registry options \vee Registry * Dockerre Image * app \vee latest \vee Startup Command ①

Next : Networking >

< Previous

Review + create

Home > App Services >

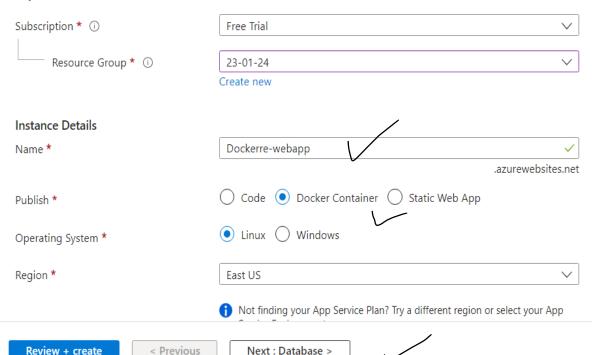
Create Web App

Basics Database 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.



Copy the default domain URL and browse, hence we are able to see the image.

