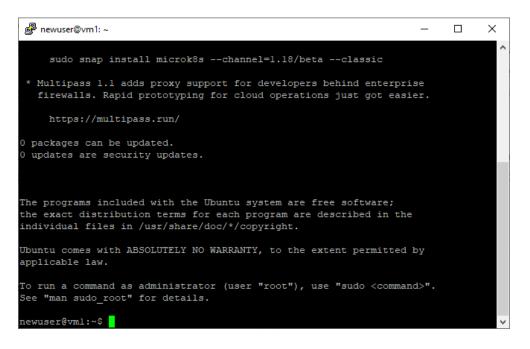


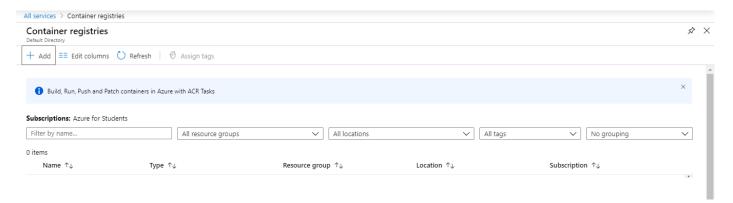
Azure 104 Module 5: Hands-on:2

Publishing and Automating Image Deployment to Azure Container Registry

Step 1: Deploy an Ubuntu virtual machine and install the Azure CLI and Docker.

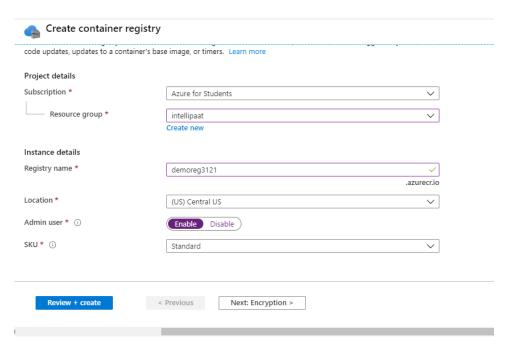


Step 2: Search for Container registries and click on it; and then, click on Add

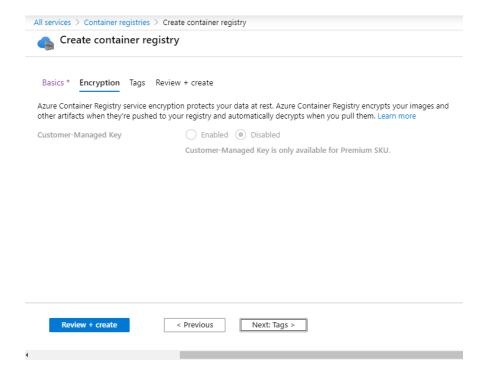




Step 3: Enter details such as the resource group and the name of the registry and switch the Admin user to **Enable**. Then, click on **Next: Encryption**

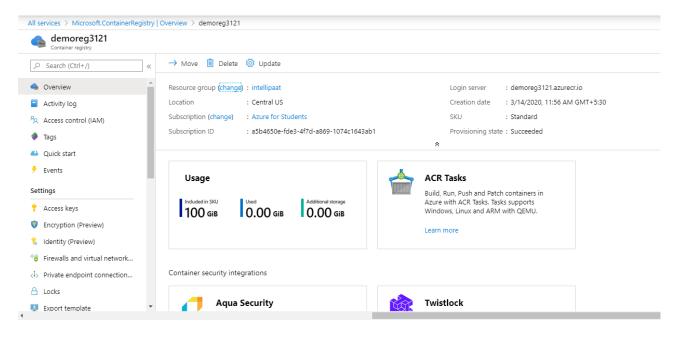


Step 4: Here, enter the Encryption details, if any, and then click on Review + create





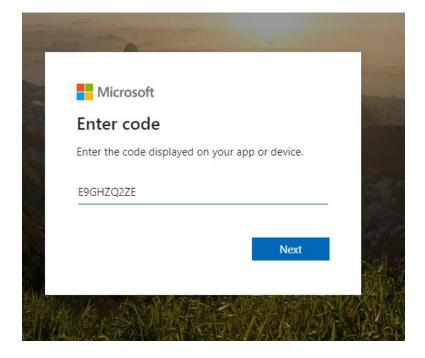
Step 5: Once the resource has been deployed, copy the name of the container registry



Step 6: Go to the Ubuntu machine and type the command **az login** to log into Azure Portal. It will provide you with a code to authenticate

```
root@vml:/home/newuser# az login
To sign in, use a web browser to open the page https://microsoft.com/devicelogin
and enter the code E9GHZQ2ZE to authenticate.
^Croot@vml:/home/newuser#
```

Step 7: Enter the code to authenticate





Step 8: Connect to the Azure container registry with the command:

az acr login —name <name of the container registry>

root@vml:/home/newuser# az acr login --name demoreg3121

Login Succeeded
root@vml:/home/newuser#

Step 9: Pull an image 'hello-world' using the command **docker pull hello-world** and tag it using the docker tag command:

docker tag <image name><destination address of the image>

Now, follow these commands to push the image into the container registry and run it

> docker push demoreg3121.azurecr.io/hello-world:v1

>docker run demoreg3121.azurecr.io/hello-world:v1

```
뤋 root@vm1: /home/newuser
                                                                                           ×
root@vml:/home/newuser# docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
1b930d010525: Pull complete
Digest: sha256:f9dfddf63636d84ef479d645ab5885156ae030f61la56f3a7ac7f2fdd86d7e4e
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
root@vml:/home/newuser# docker tag hello-world demoreg3121.azurecr.io/hello-world:vl
root@vml:/home/newuser# docker push demoreg3121.azurecr.io/hello-world:vl
The push refers to repository [demoreg3121.azurecr.io/hello-world]
af0b15c8625b: Pushed
vl: digest: sha256:92c7f9c92844bbbb5d0a10lb22f7c2a7949e40f8ea90c8b3bc396879d95e899a size: 524
root@vml:/home/newuser# docker run demoreg3121.azurecr.io/hello-world:vl
Hello from Docker!
This message shows that your installation appears to be working correctly.
To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
   The Docker daemon streamed that output to the Docker client, which sent it
```



Step 10: Go to the Azure container registry in Azure Portal and click on **Repositories**. Refresh it to be able to see the repositories that have been pushed by you

