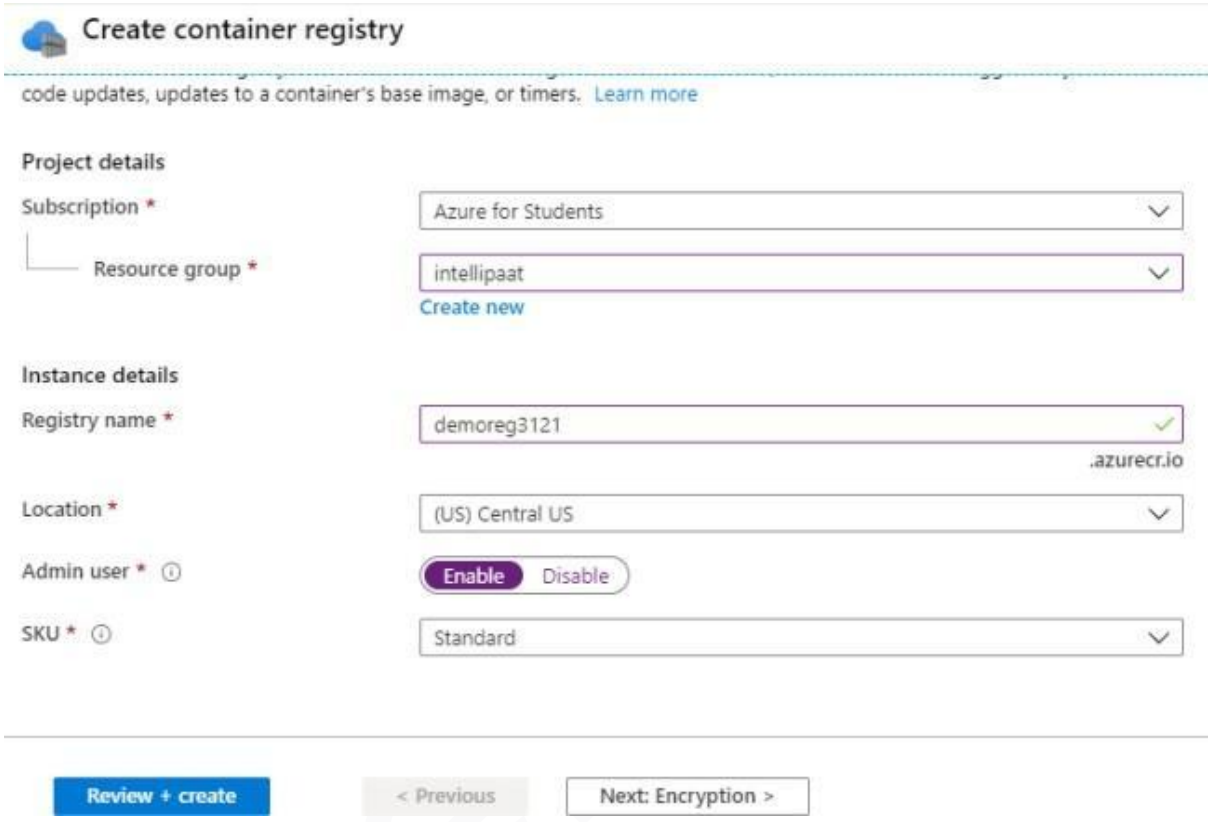
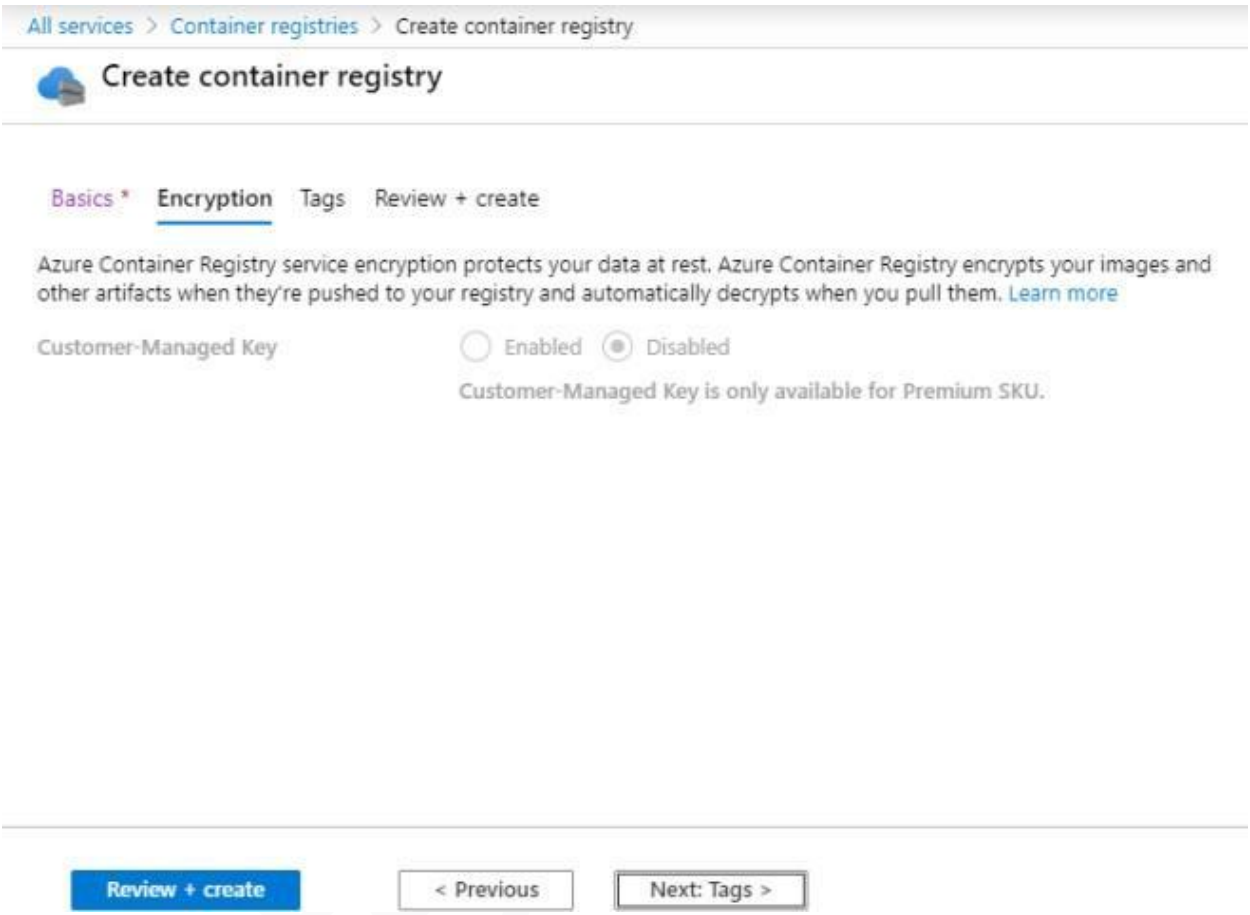
Module 5: Hands-On: Publishing and Automating Image Deployment to Azure Container Registry

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

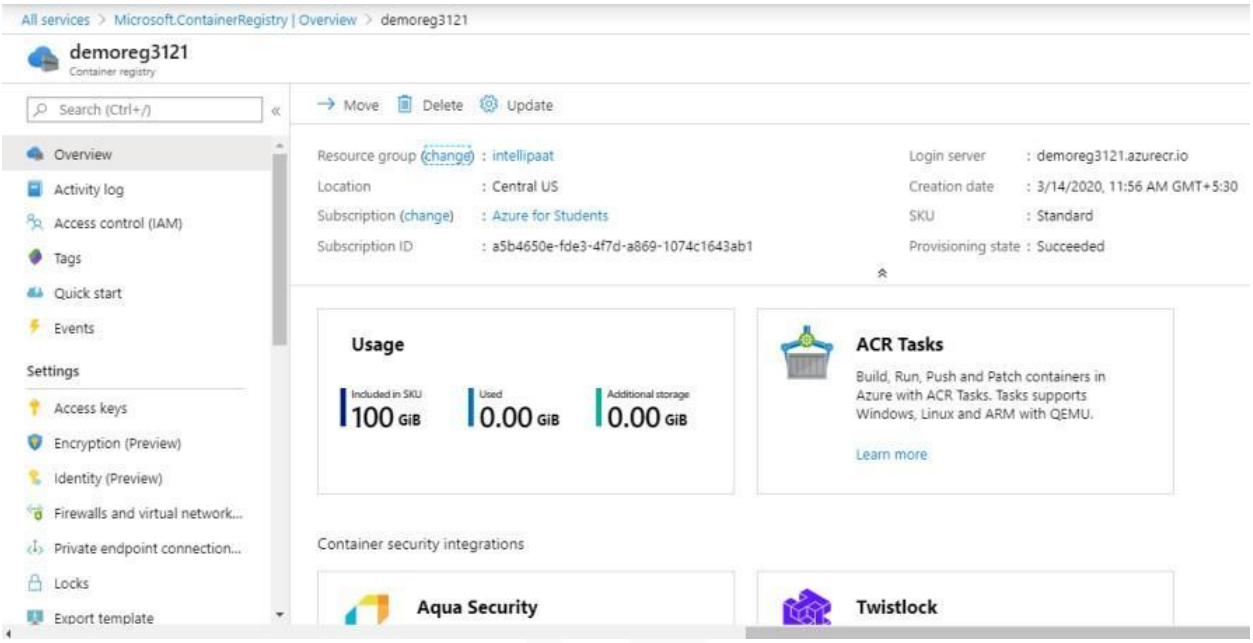
Step 2: Search for container registries and click on it. Then, click on Add. Enter details such as the resource group and the name of the registry. Switch the Admin user to Enable. Then click on Next: Encryption



Step 3: Here, enter the Encryption details, if any, and then click on Review + create

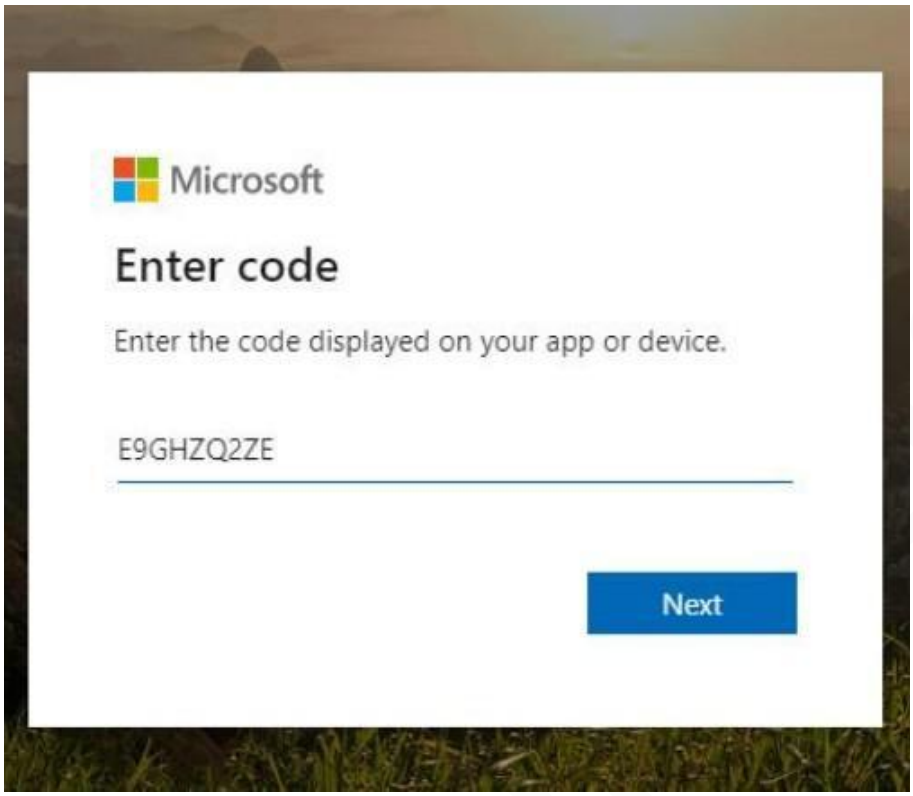


Step 4: Once the resource has been deployed, copy the name of the container registry



Step 5: 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

Step 6: Enter the code to authenticate



Step 7: Connect to the Azure container registry with the command:

```
az acr login –name <name of the container registry>
```

```
root@vm1:/home/newuser# az acr login --name demoreg3121
Login Succeeded
root@vm1:/home/newuser#
```

Step 8: 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
```

Step 9: 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