Adilson Cesar

Follow 165 Followers About

Creating Container Images (ACR) to be used with Azure Container Service

Adilson Cesar Mar 9, 2018 · 3 min read

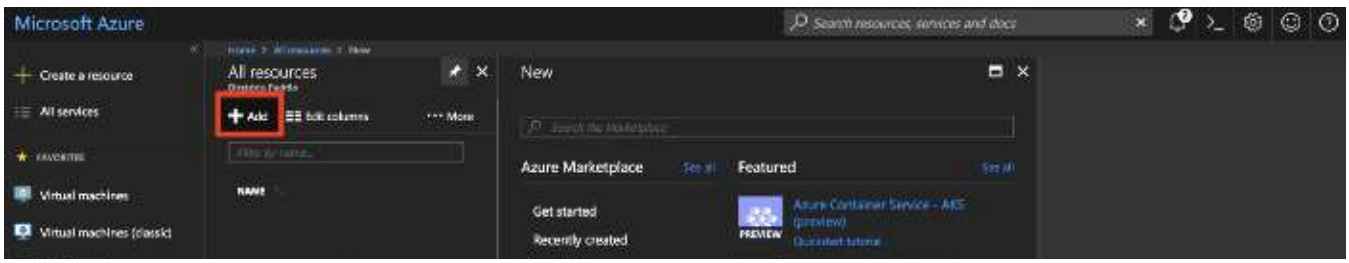
Azure Container Registry (ACR) is an Azure-based, private registry, for Docker container images. This tutorial, walks through deploying an Azure Container Registry instance, and pushing a container image to it.

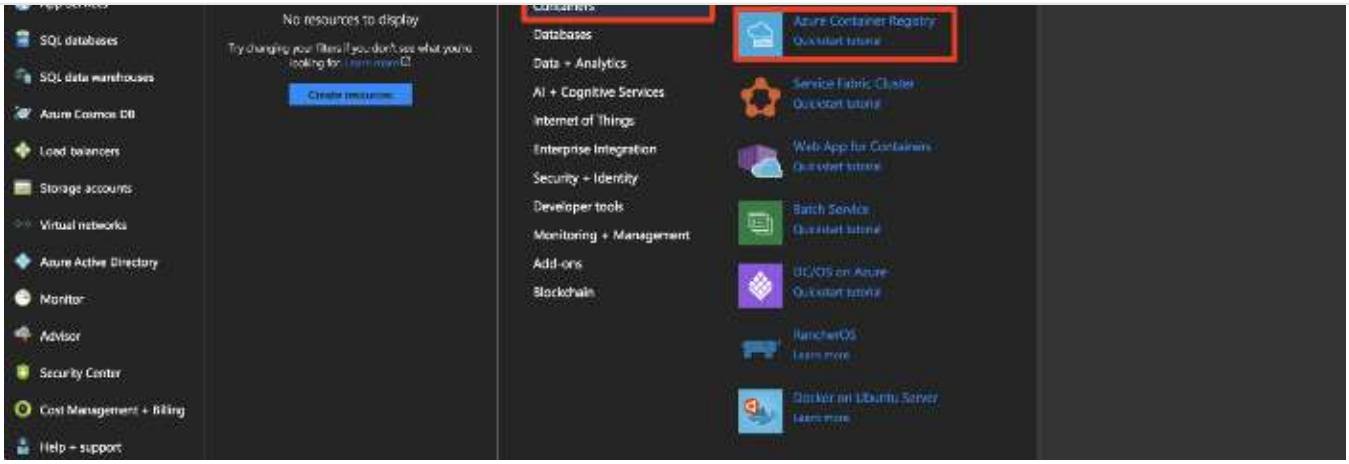
Check it out Azure Registry costs here.

Hands On!

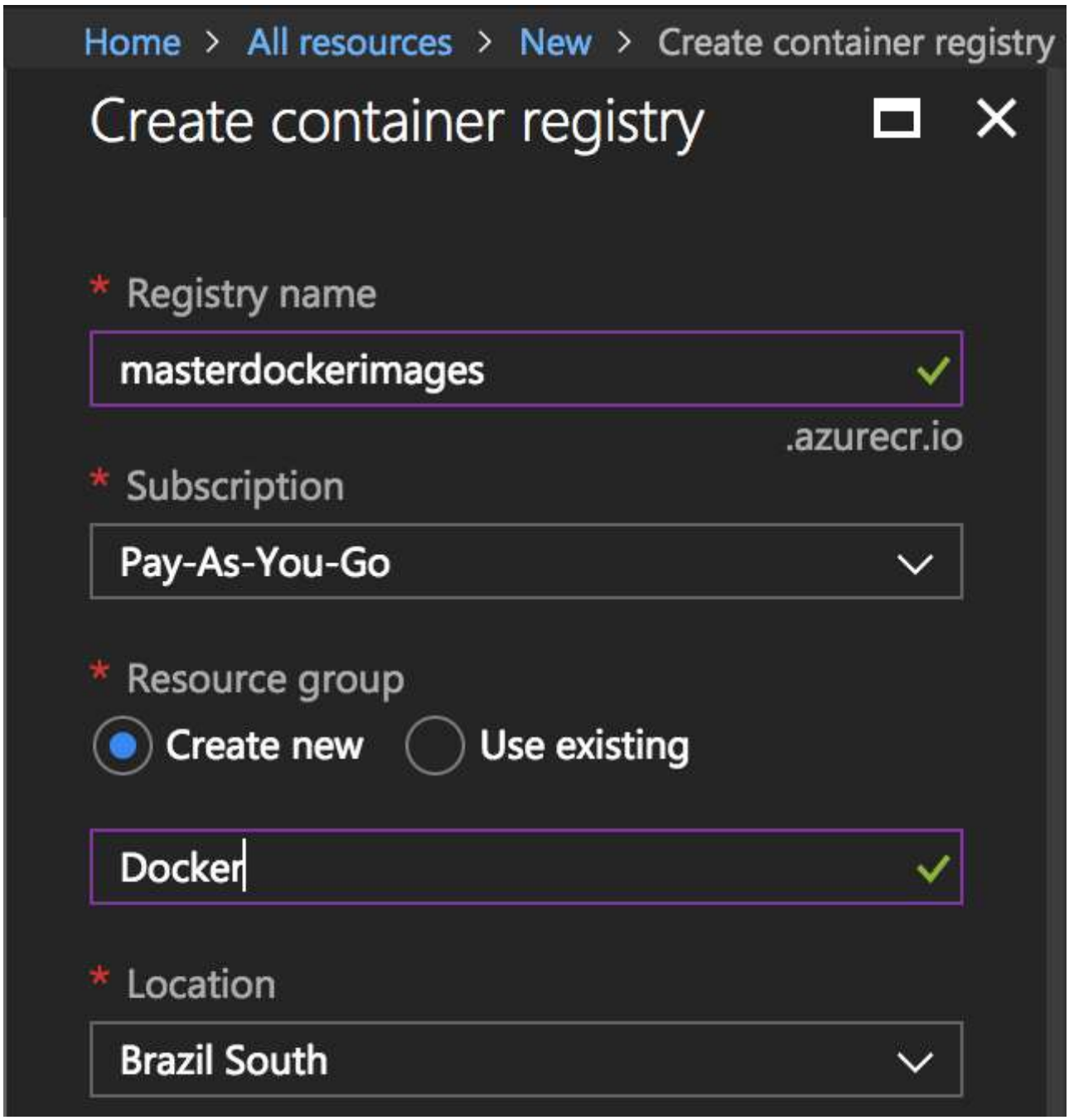
Deploying an Azure Container Registry (ACR) instance following steps below.

All Resources →+Add → Containers → Azure Container Registry..

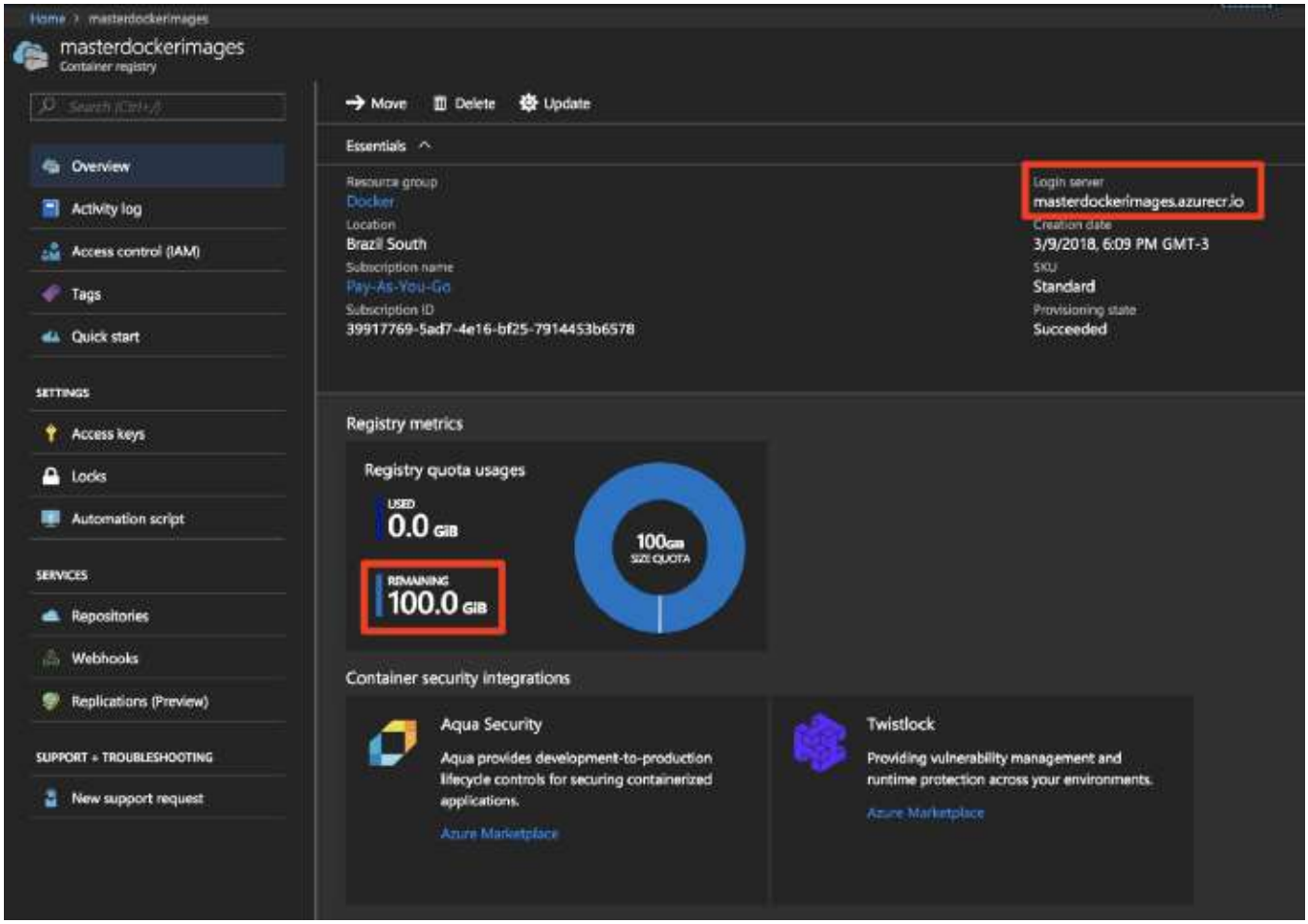




Fill out required itens (*)



Here We go!



Container Registry Login

The **az acr login** command to log in to the ACR instance. You need to provide the unique name given to the container registry when it was created.

Login and list the resource group Docker.

```
#
#
# az acr list --resource-group Docker --query "[].
{acrLoginServer:loginServer}" --output table
AcrLoginServer
----------------------------
masterdockerimages.azurecr.io
#
```

I will use nginx image.

```
# docker images
REPOSITORY  TAG     IMAGE ID      CREATED             SIZE
nginx       latest  e548f1a579cf  2 weeks ago         109MB
```

Tagging a container image for ACR.

```
# docker tag nginx masterdockerimages.azurecr.io/nginx:azure
```

Once tagged, run **docker images** to verify the operation.

```
REPOSITORY                          TAG       IMAGE ID       CREATED         SIZE
nginx                               latest    e548f1a579cf   2 weeks ago     109MB
masterdockerimages.azurecr.io/nginx azure     e548f1a579cf   2 weeks ago     109MB
```

Push Images to Registry

Push the `nginx` image to the registry.

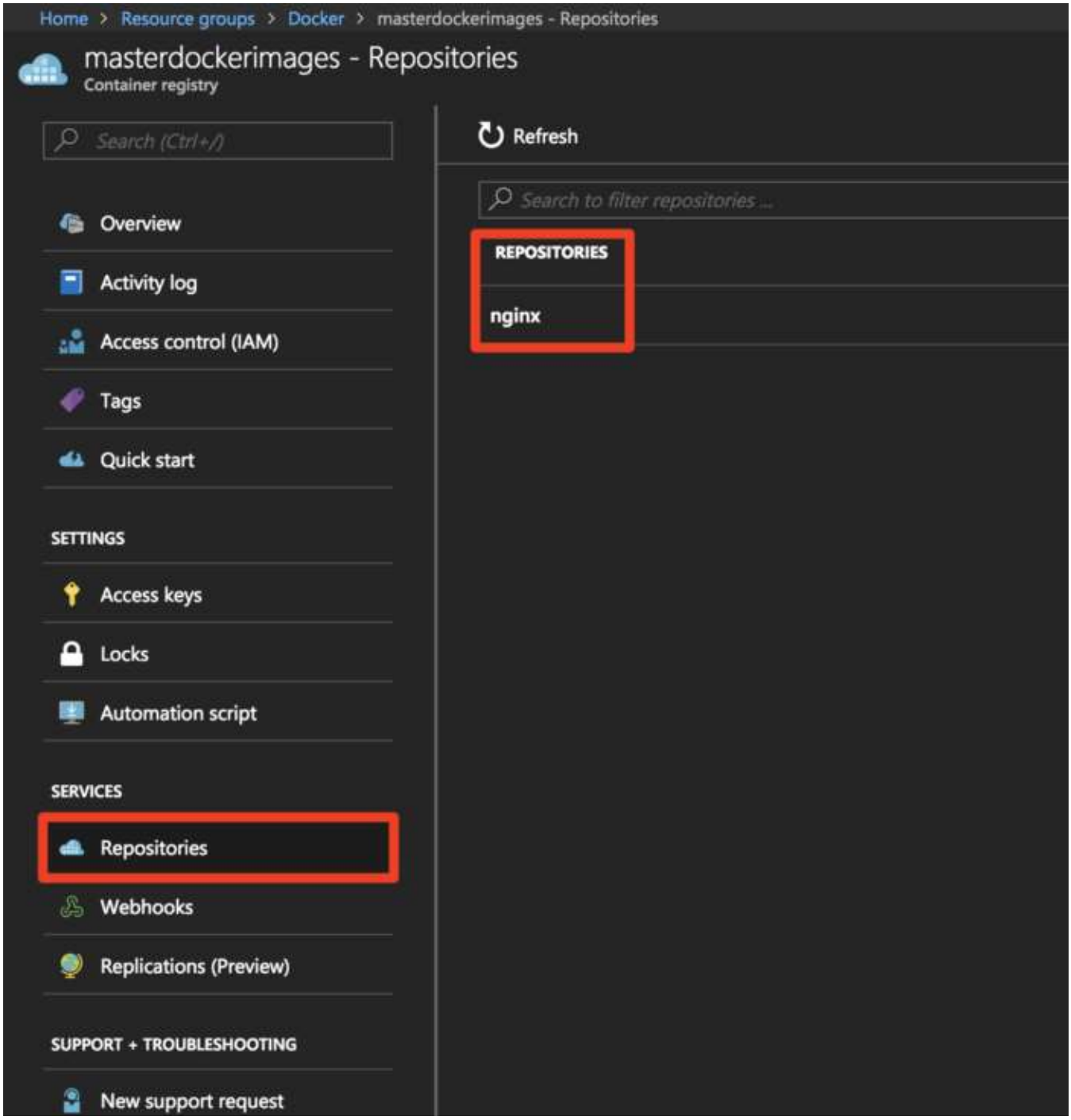
Using the following example, replace the ACR loginServer name with the loginServer from your environment.

```
#  docker push masterdockerimages.azurecr.io/nginx:azure
The push refers to repository [masterdockerimages.azurecr.io/nginx]
e89b70d28795: Pushed
832a3ae4ac84: Pushed
014cf8bfcb2d: Pushed azure: digest: sha256:60d53435a1a6f7c size: 948
#
```

the **az acr repository list** command. Update the command with the ACR instance name.

```
# az acr repository list --name masterdockerimages --output table
Result
--------
nginx
```

Also by console.

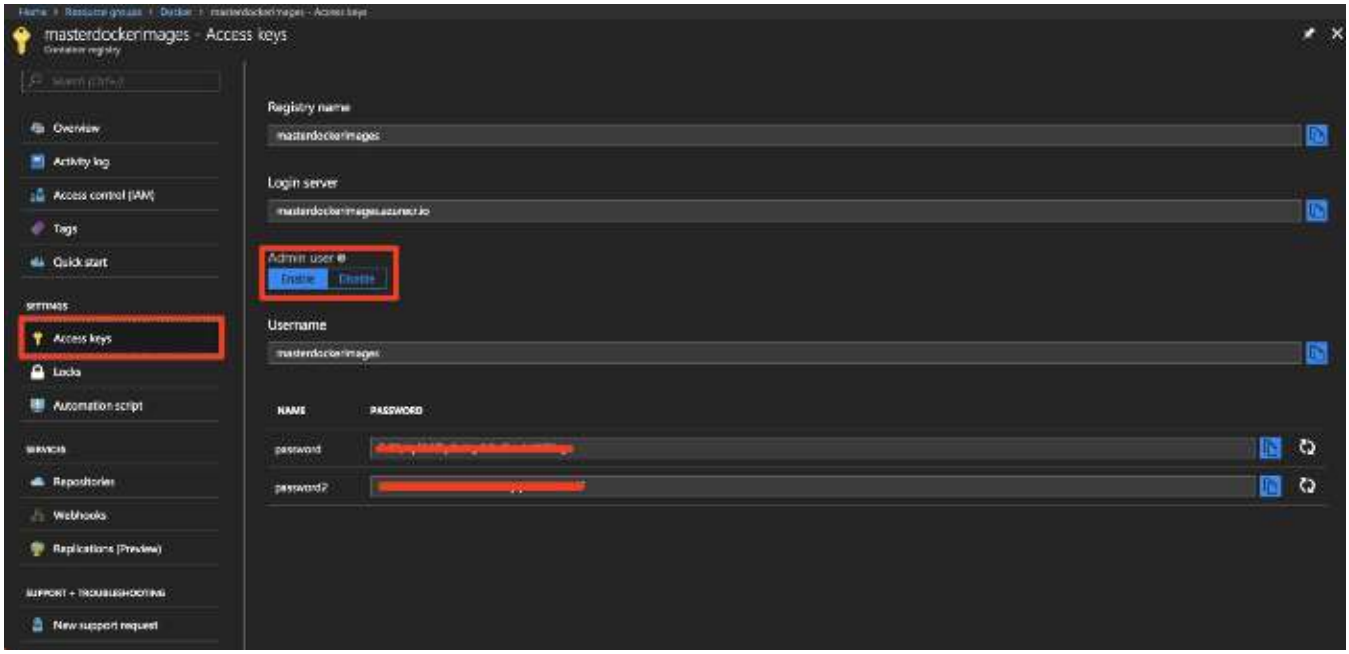


Login from Docker CLI

In order to push images to the newly created ACR instance, you need to login to ACR form the Docker CLI.

```
# docker login masterdockerimages.azurecr.io -u masterdockerimages
Password:
Login Succeeded
```

Find out your password on Access Keys tab.



That's it. You've successfully deployed an ACR.

In this tutorial, an Azure Container Registry was prepared for use in an ACS Kubernetes cluster that I will create on the next post :)

Docker Azure Containers Image DevOps