

Publishing a Helm chart to ACR

Start

The best place to store a Helm chart so that multiple microservices can use it, is what is called a chart repository. There are existing public Helm chart repositories we could use for this, or we could even create our own chart repository somewhere in the cloud.

However, we already have a great place to store our Helm charts, and that is our Azure Container Registry or ACR.

ACR can be used to store Helm charts, just like you use it to store your Docker images, keeping the charts private to your team or organization and sharing all the same benefits you get from storing things in an ACR.

So, let's package our microservice Helm chart and then go through the steps to publish it to the ACR we have been using across this course.

In Infra repo

1. Add to README.md:

```
## Packaging and publishing the microservice helm chart
```powershell
helm package .\helm\microservice

$helmUser=[guid]::Empty.Guid
$helmPassword=$(az acr login --name $appname --expose-token --output tsv --query accessToken)
$env:HELM_EXPERIMENTAL_OCI=1
helm registry login "$appname.azurecr.io" --username $helmUser --password $helmPassword

helm push microservice-0.1.0.tgz oci://$appname.azurecr.io/helm
```
```

2. Run the commands
3. Check the published chart in Azure Portal
4. Add a .gitignore file with:

```
*.tgz
```

5. Commit and push.

In the next lesson you will use the published chart in the Identity microservice.