Lab 5 D23125496

1.) https://github.com/JakobReinshagen/Cloud-Computing/
https://hub.docker.com/repository/docker/jakobreinshagen/cloudcomputing/general

2.) First create a Container registry:

Create container registry ...

Basics   Networking   Encryption   Tags   Review + create

Azure Container Registry allows you to build, store, and manage container images and artifacts in a private registry for all types of container deployments. Use Azure container registries with your existing container development and deployment pipelines. Use Azure Container Registry Tasks to build container images in Azure on-demand, or automate builds triggered by source code updates, updates to a container's base image, or timers. Learn more

Project details

Subscription *   Azure for Students

Resource group *   CloudComputing_group
                                  Create new

Instance details

Registry name *   containerregistryReg
                                                                    .azurecr.io

Location *   UK West

Use availability zones ⓘ   ☐
                                  ⓘ Availability zones are activated on premium registries and in regions that
                                     support availability zones. Learn more

Pricing plan * ⓘ   Standard

Second create a kubernetes cluster service:

Create Kubernetes cluster ...

Project details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

| Azure for Students | ⌄ |

Resource group * ⓘ

| CloudComputing_group | ⌄ |

Create new

Cluster details

Cluster preset configuration *

| 🧪 Dev/Test | ⌄ |

To quickly customize your Kubernetes cluster, choose one of the preset configurations above. You can modify these configurations at any time. Compare presets

Kubernetes cluster name * ⓘ

| cloudcomputingKubernetes |

Region * ⓘ

| (Europe) UK South | ⌄ |

Availability zones ⓘ

| None | ⌄ |

AKS pricing tier ⓘ

| Free | ⌄ |

Kubernetes version * ⓘ

| 1.27.7 (default) | ⌄ |

Automatic upgrade ⓘ

| Enabled with patch (recommended) | ⌄ |

Choose between local accounts or Azure AD for authentication and Azure RBAC or Kubernetes RBAC for your authorization needs.

Authentication and Authorization ⓘ

| Local accounts with Kubernetes RBAC | ⌄ |

ⓘ Once the cluster is deployed, use the Kubernetes CLI to manage RBAC configurations. Learn more ↗

| Previous | Next | **Review + create** |

After that I created a project on azure dev:

After that you create a new pipeline there you select git as your source and select a kubernetes network:

After that you commit a file called azure-piplines.yaml to git. Now after every push in the main branch the pipeline rebuild itself automaticly and shows up on the kubernetes network.

3.) I in the app if you are finished, the item won't be crossed out. The text is now crossed out with a cross.