1. Create Kubernetes cluster using minikube.

A computer screen with text on it

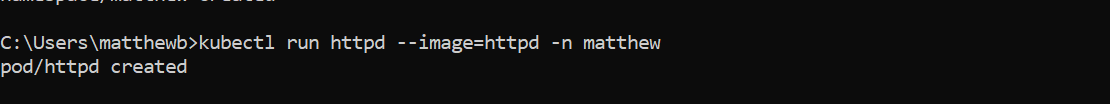
Description automatically generated

1. Create one namespace and use this for below tasks.

A black screen with a black background

Description automatically generated

1. Create one pod using any public image



1. Create one pod using the image which is pushed to your docker hub account

A black screen with white text

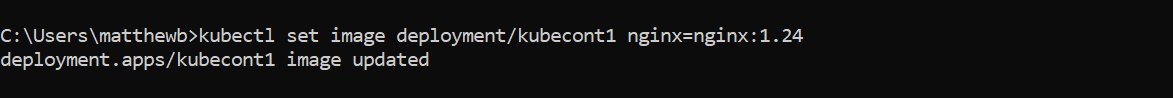
Description automatically generated

1. Create one Deployment with 3 replicas

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1. Update the deployment with new version of image and maintain the history



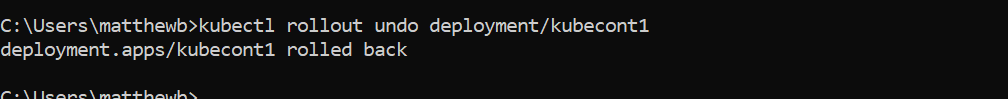
A black screen with white text

Description automatically generated

A screenshot of a computer

Description automatically generated

1. Rollback the deployment with previous version



1. Expose the deployment using NodePort service and access the service using url.

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Description automatically generated

A screenshot of a computer

Description automatically generated

1. Run one pod with Ubuntu image and execute command **echo “Hello world”.**

A computer screen with text on it

Description automatically generated

1. How to get-into the pod/container?

Execute the following commands

kubectl get pods

kubectl exec -it -n <namespace> <pod-name> -- /bin/bash

1. How to check the logs of a pod/container?

Execute the command kubectl logs <container name>

1. What is context?

Kubernates context is a group of access parameters that define what cluster user is using and what namespace user is working on.

1. What is config file?

Config file is used to store Kubernates object and authentication information.