Containerized Application Deployments

**Pre-Requisite Set-up – Windows (Install Git)**

Workshop Instructions

# Retrieve Kubernetes Credentials

Login to Non-Prod Rancher: <https://rancher.np-k8s.sherwin.com/>

## Screens screenshot of a computer

Click on the K8s cluster “np-shared-oke”



Click “Download KubeConfig”

A screenshot of a computer

Description automatically generated

The file should download to your “Downloads” folder.

# Download Git Repository

In your Terminal window, run the following command:

git clone https://github.com/njk187/Basic-Container-App-Demo.git

Change directories into the repository.

cd Basic-Container-App-Demo

Open the folder in Visual Studio Code

code .

# Configure Our Namespace in Code

In VSCode, open the kubernetes\my\_namespace.yaml file.

Replace <USER\_ID> (including the brackets) with your 6-character Sherwin ID (i.e. abc123).

Save the file.

# Set our Kubectl Context

On Mac or Linux, in your Terminal window, run:

export KUBECONFIG=~/Downloads/np-shared-oke.yaml

On Windows, in your PowerShell Window, run:

$env:KUBECONFIG = "$env:USERPROFILE\Downloads\np-shared-oke.yaml"

# Create our Namespace in Kubernetes

In your Terminal window, run:

kubectl create -f ./kubernetes/my\_namespace.yaml

# Configure our Deployment in Code

In VSCode, open the kubernetes\my\_app.yaml file.

Replace all instances of <USER\_ID> with your 6-character Sherwin ID (i.e. abc123).

Replace <REGISTRY> with docker.artifactory.sherwin.com

Save the file.

# Apply Deployment Configuration to Kubernetes

In your Terminal window, run:

kubectl apply -f ./kubernetes/my\_app.yaml

# Let’s check our app!

Open your favorite Web Browser and enter the hostname from line 35 of the my\_app.yaml file.

# Update our Deployment in Code

In VSCode, open the kubernetes\my\_app.yaml file.

On Line 17, replace v1 with v2

Save the file.

# Apply Deployment Configuration to Kubernetes

In your Terminal window, run:

kubectl apply -f ./kubernetes/my\_app.yaml

# Let’s check our app!

Open your favorite Web Browser and enter the hostname from line 35 of the my\_app.yaml file.