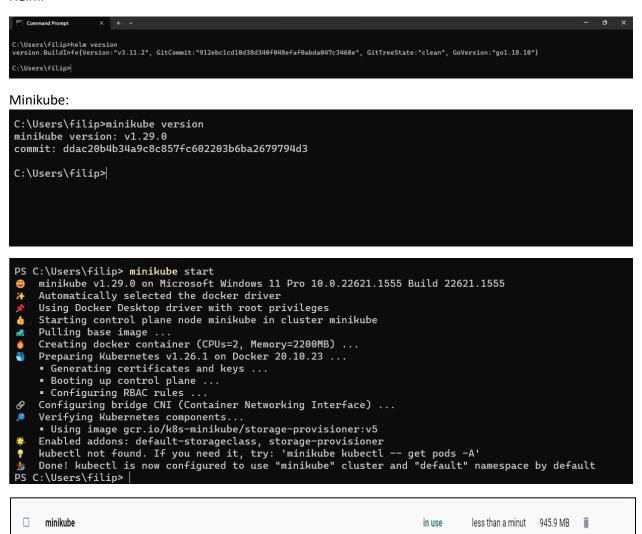
## Final Project Assessment

Deploy a WordPress on Kubernetes (using Minicube) with Helm and automation with Jenkins.

## Prerequisites:

1.Install the necessary tools: Minicube, Helm and Jenkins.

## Helm:

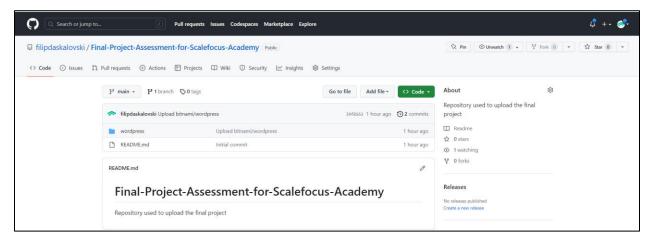


## Jenkins:





2. Separate repo in your GitHub Profile named: Final Project Assessment for Scalefocus Academy



Requirement for the Project Assessment:

Chart.lock Chart.yaml README.md templates values.schema.json values.yaml

1. Download Helm chart for WordPress. ( Bitnami chart:

https://github.com/bitnami/charts/tree/main/bitnami/wordpress)

( Hint: there will be one more problem when deploying. Resolve it. )

```
MINGW64:/c/Users/filip/Desktop/SCALEFOCUS/SCALEFOCUS FINAL

filip@DESKTOP-180FJ2H MINGW64 ~/Desktop/SCALEFOCUS/SCALEFOCUS FINAL (main)

$ git clone https://github.com/bitnami/charts.git -- clone
Cloning into 'clone'...
remote: Enumerating objects: 231220, done.
remote: Counting objects: 100% (3203/3203), done.
remote: Compressing objects: 100% (1154/1154), done.
remote: Total 231220 (delta 1915), reused 2983 (delta 1753), pack-reused 228017
Receiving objects: 100% (231220/231220), 1.41 GiB | 10.77 MiB/s, done.
Resolving deltas: 25% (43405/171007)
```

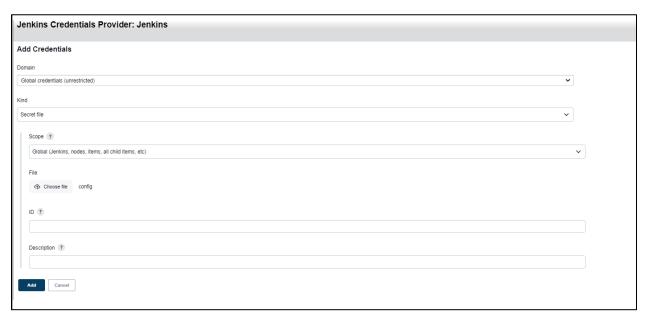
filipRosskrop-180F)2H MINGR64 ~/Desktop/ScaleFOCUS/ScaleFOCUS/ScaleFOCUS/ScaleFOCUS/ScaleFOCUS/ScaleFOCUS/ScaleFOCUS/ScaleFOCUS/FINAL/clone/bitmami/wordpress (main)

2. In values.yaml, you need to change line 543 from type: LoadBalancer to type: ClusterIP

```
101 ##
102 wordpressUsername: user
103 ## @param wordpressPassword WordPress user password
104 ## Defaults to a random 10-character alphanumeric string if not set
105 ##
106 wordpressPassword: "password"
107 ## @param existingSecret Name of existing secret containing WordPress credentials
108 ## WOTE: Must contain key 'wordpress-password'
109 ## WOTE: Must contain key 'wordpress-password'
109 ## WOTE: When it's set, the 'wordpress-password' parameter is ignored
```

```
S C:\Users\filip\Desktop\SCALEFOCUS\SCALEFOCUS FINAL\clone\bitnami\wordpress> helm dependency build
lang tight while we grab the latest from your chart repositories...
..Successfully got an update from the "bitnami" chart repository
Jpdate Complete. *Happy Helming!*
Saving 3 charts
Downloading memcached from repo oci://registry-1.docker.io/bitnamicharts
Pulled: registry-1.docker.io/bitnamicharts/memcached:6.4.2
Digest: sha256:ac800af4f9b6be921043eb5cd2ba07828ad6fc404b57<u>62f2630657d9fdf5a</u>6fe
Downloading mariadb from repo oci://registry-1.docker.io/bitnamicharts
Pulled: registry-1.docker.io/bitnamicharts/mariadb:12.2.2
Digest: sha256:f18fd0e930041ef6a1dff0789eb801f2c4c52f1e8e0ff7c610b109ae8304d74c
Downloading common from repo oci://registry-1.docker.io/bitnamicharts
Pulled: registry-1.docker.io/bitnamicharts/common:2.2.5
Digest: sha256:a088a039a53958fdd4ddff5a9799c0dba38d1c480bc768a9141cb87e7fcf7036
Deleting outdated charts
PS C:\Users\filip\Desktop\SCALEFOCUS\SCALEFOCUS FINAL\clone\bitnami\wordpress>
   C:\Users\filip\Desktop\SCALEFOCUS\SCALEFOCUS FINAL\clone\bitnami\wordpress> helm template my-release . > test.yaml
PS C:\Users\filip\Desktop\SCALEFOCUS\SCALEFOCUS FINAL\clone\bitnami\wordpress>
```

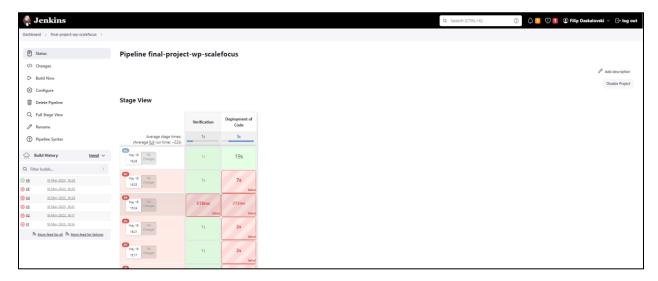
3. Create a Jenkins pipeline that checks if wp namespace exists, if it doesn't then it creates one. Checks if WordPress exists, if it doesn't then it installs the chart.



```
| Interest | Interest
```



- 4. Name the Helm Deployment as: final-project-wp-scalefocus.
- 5. Deploy the helm chart using the Jenkins pipeline.



6. Load the home page of the WordPress to see the final result.

