Hackathon Execution Steps

Preface

You will be performing this Hackathon on the Red Hat Openshift environment which includes capabilities for you to

- **Develop code & Commit** - Develop, build, test & commit the code using the inbuilt IDE (VScode) based on Red Hat Openshift Dev Spaces
- **Deploy committed code** - Deploy the applications using your Git Repositories code for frontend & backend using Openshift Source to image (S2I) tools
- **Deploy Database** - Deploy database of your choice like MySQL/PostgreSQL/MongoDB from Openshift UI as per your requirement
- **Retrigger your code build & deployment** - The Openshift platform includes CI/CD tools like Tekton which helps you in retriggering the build & deployment of changes that you performed in your GitHub repositories.

High level steps to perform this Hackathon exercise

- **Access Openshift Web Console** - Access the Openshift Web Console/UI on your browser & login with the provided credentials & access the project which is configured by default
- **Deploy Database** - Deploy either MySQL/PostgreSQL/MongoDB database using inbuilt template provided in Openshift console in your allocated project
- **Access IDE (VSCode)** - Access the Red Hat Openshift Dev Spaces workspace from Openshift console to begin your development
- **Choose your code language** - Select the right template or use your existing code in GitHub repos in Red Hat Openshift Dev Spaces as per your preferred language for developing code as per frontend & backend application
- **Develop & Commit** - Develop the required code & perform Git Operations to commit your code to GitHub repositories created as part of the Hackathon prerequisites
- **Deploy your committed code** - Deploy the applications using your GitHub Repositories for both frontend and backend in your Openshift projects
- **Retrigger your code changes** - Perform required changes in code & trigger the Pipeline to deploy your code automatically
- **Troubleshoot & access application** - Check the application logs if required & access the UI of your deployed application & test the logic.

Success (Outcome) of Hackathon

- **Code deployed & running** - Successful deployment of frontend & backend application pods/containers along with Database pod in running condition status in your own project
- **Use case successful execution** - Access the UI of the frontend application & successfully test the logic of your application as per the given Hackathon use case & data persistence in the database.

Environment details

- **Red Hat Openshift console URL** - https://console-openshift-console.apps.ocpnonprodcl02.goindigo.in/
- **GitHub Repositories**

<Please paste your GitHub repositories here with Access token> here as this will be required later while following the steps mentioned below.

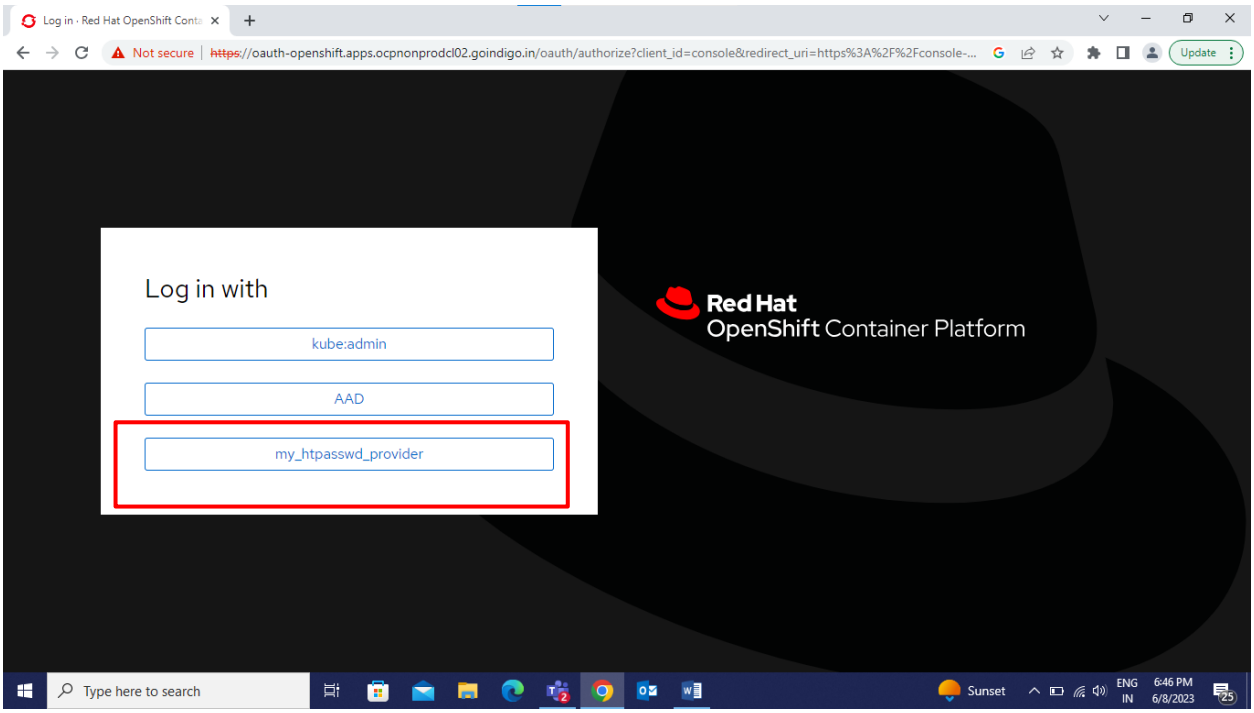
- **Credentials** - hackuser<number>/hackuser<number>@110623

Note: Please replace the number with the number allocated to you. Please do not use any other number as it can hamper the other's work..

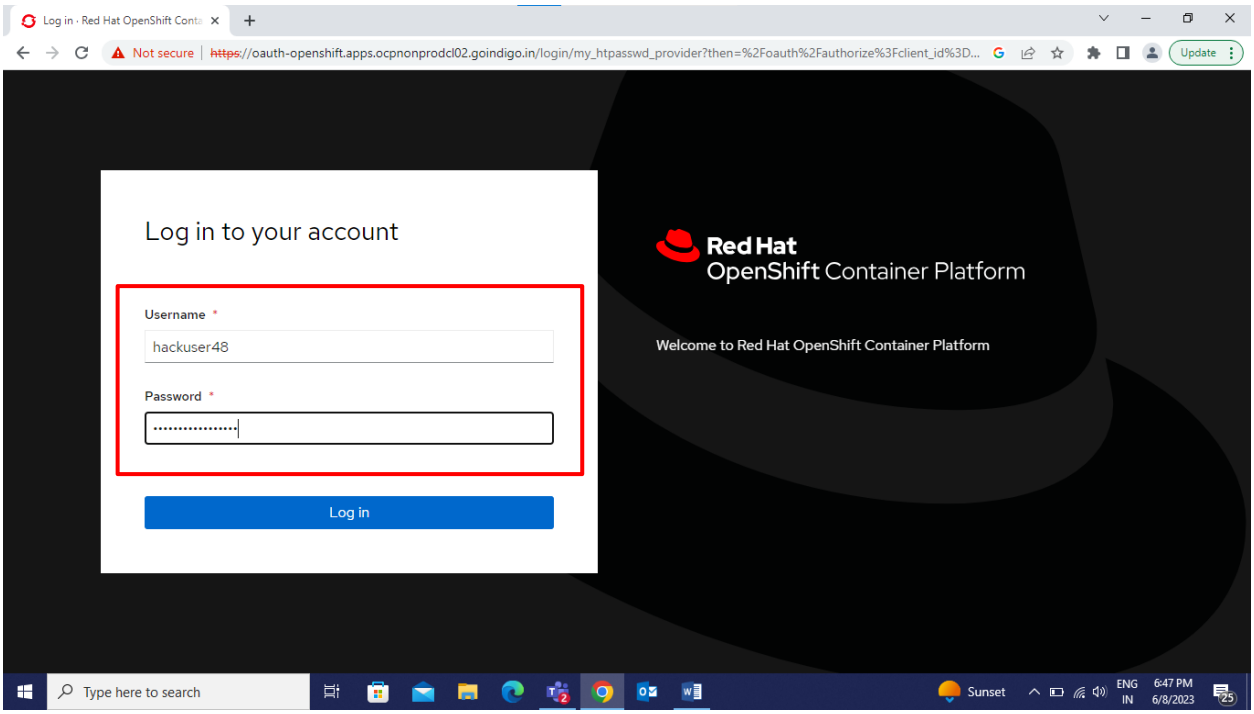
Access Hackathon environment (Red Hat Openshift)

1. Access the above provided OCP URL on you & select "my_htpasswd_provider" for login. Do not select any other method.

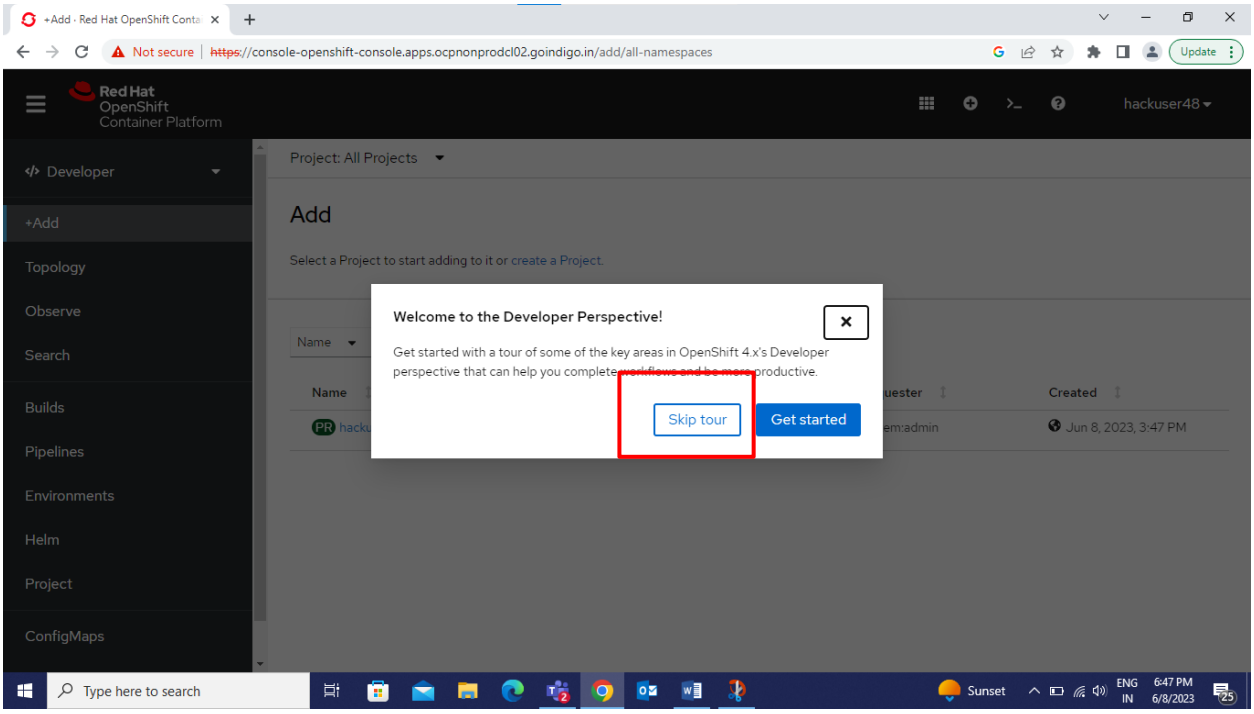
Note: After accessing the above URL, it may give warnings related to certificates, please ignore the warnings & proceeds to the URL. These security warnings may be displayed twice but ignore & proceed.



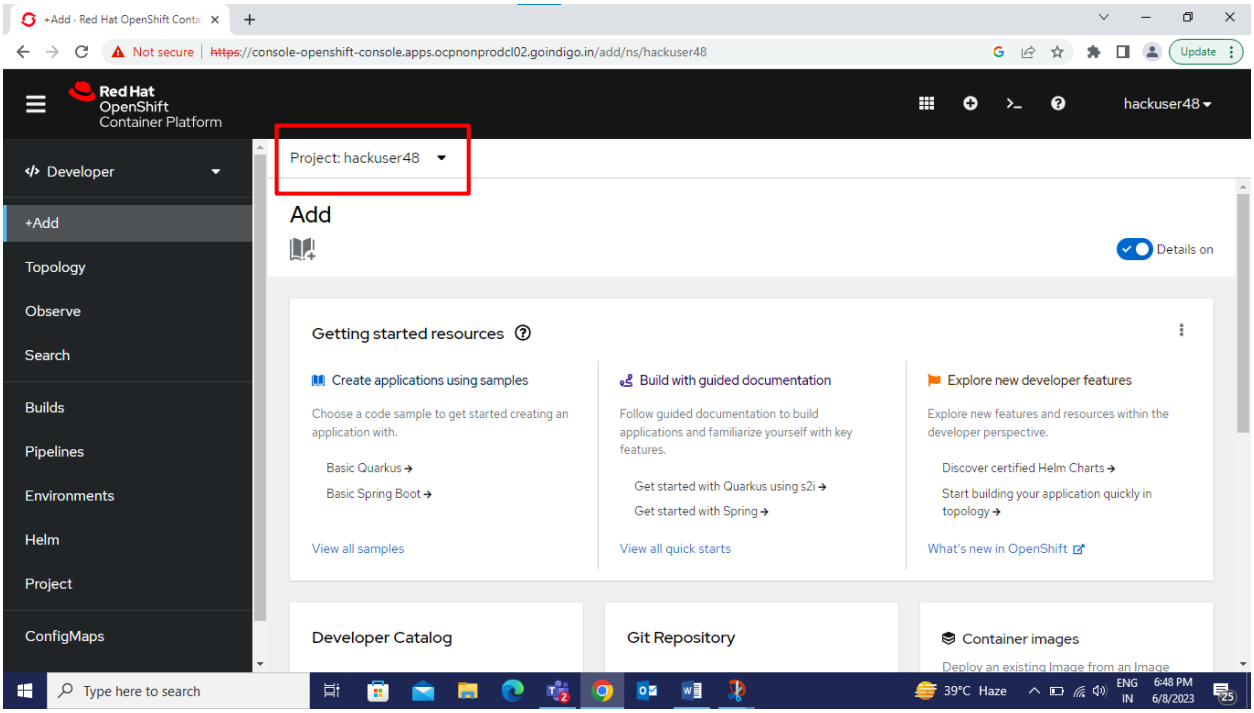
2. Enter the provided credentials which has been assigned to you & Click on Login



3. Click on Skip Tour & click your underneath project name in the console



4. Project page will be displayed as shown below. Please check that it is displaying your project as highlighted below



Next step - Move to Guide 2-Deploy Database

After you have accessed the Openshift platform & read the instructions, proceed to guide 2 for deploying database of your choice on Openshift.

So move to Guide 2 - Deploy Database