Exam Preparation

Exercises for the "DevOps for Developers" module @ SoftUni

1. Resource Files

You are provided with a simple .NET application with tests – follow this link to access the repository with the resource files.

2. Working with Git and GitHub

Fork the Repository

Fork the repository into your own GitHub account.

Clone and Set Up Local Environment

Clone the forked repository, open the application and ensure that it is building locally without errors.

3. Configure GitHub Actions

Set up a GitHub Actions pipeline to automatically build the application, run the tests and trigger the pipeline on push events to the **develop** and **staging** branches.

Ensure that changes pushed to develop branch trigger **unit** tests and code pushed to **staging** branch triggers integration tests.

4. Create and Manage Branches

Create a branch and name it **feature-ci-pipeline** from the **develop** branch.

5. Configure Jenkins

Configure a Jenkins pipeline to build the application and execute the tests when changes are pushed to **the new** branch.

Push the branch to the forked repository and create a pull request from the new branch to the **develop** branch.

6. Test and Merge

After completing the CI pipeline setup, create a pull request from **develop** to **staging** branch.

7. Create a Pull Request to Original Repository

Once you are done with everything, create a final pull request from your staging branch in the forked repository to the staging branch in the original repository.

8. Submission

You can submit your solution by filling the provided document resource with name "**Solution-Resources-Template-Software-Engineering-and-DevOps**".

You should fill in the following information:

- The link for your GitHub repository.

After you have filled in the document, zip it and upload it to the SULS system.

NOTE: Don't forget that you must NOT delete the branches, nor the GitHub repo, until you receive your exam grade!