DevOps, Software Evolution and Software Maintenance, BSc (Spring 2024)

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1 System's Perspective

1.1 Design and architecture of the Minitwit system

1.2 Dependencies of the Minitwit system

1.3 Important interactions of subsystems

1.4 Current state of the system

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2 Process' perspective

2.1 CI/CD Chain

2.1.1 About GitHub Actions Workflow

We implemented a GitHub Actions workflow to automate the process of testing, building and deploying the most recent version of Minitwit. It is set to execute on each push to the 'Main' branch of our GitHub repository. The workflow is separated into three main jobs: 'BuildAndTest', 'Deploy', and 'Release' which are executed sequentially, each dependent on the last executing successfully.

2.1.2 Conclusion

2.2 Monitoring

2.3 Logging

2.4 Security assessment

2.5 Scaling strategy

3 Lessons Learned Perspective

3.1 Evolution and refactoring

3.2 Operation

3.3 Maintenance

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