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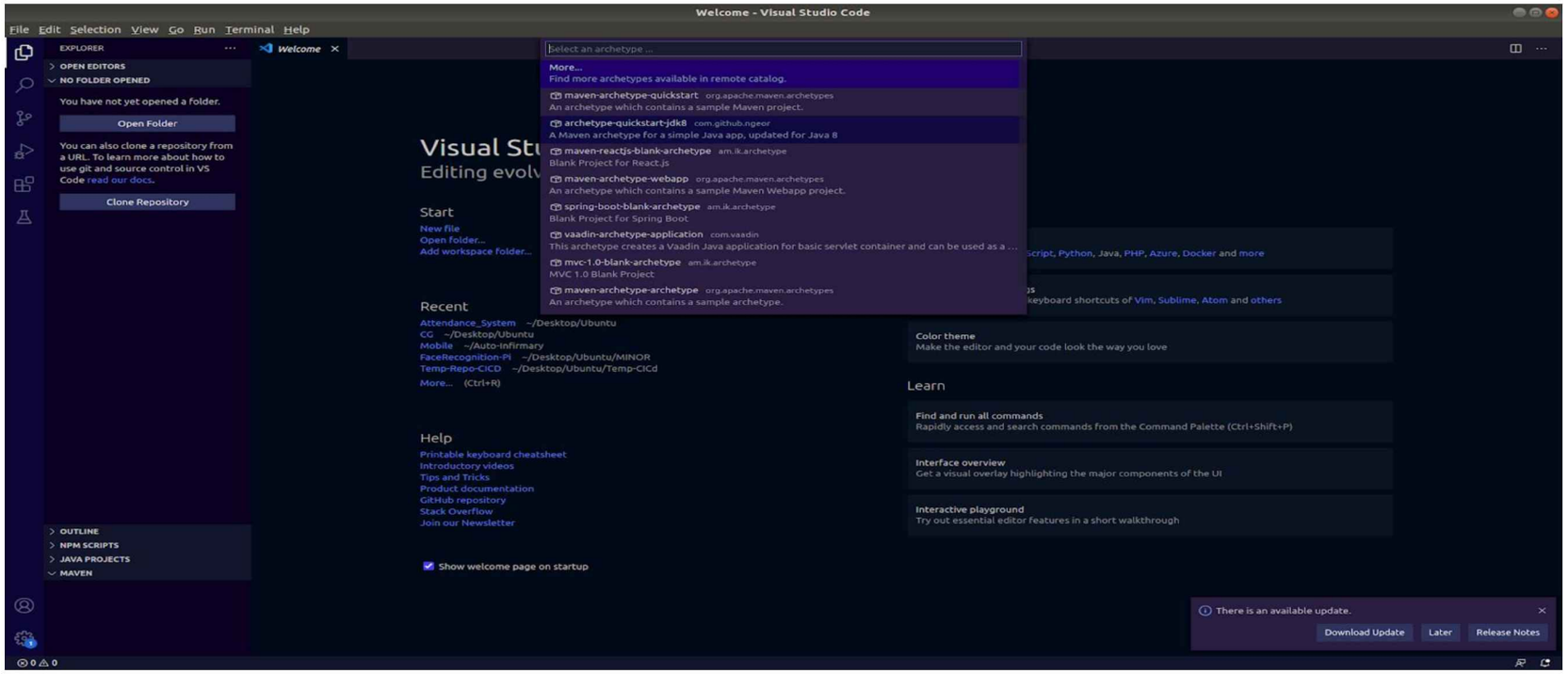
Continuous Integration & Continuous Deployment

ASSIGNMENT

Aim: To create a pipeline using Jenkins File to build a maven project and deploy to the NEXUS server on every commit.

Tools Used: VS Code, Maven, Git, Jenkins, Nexus.

Step 1: Create a Maven Project.



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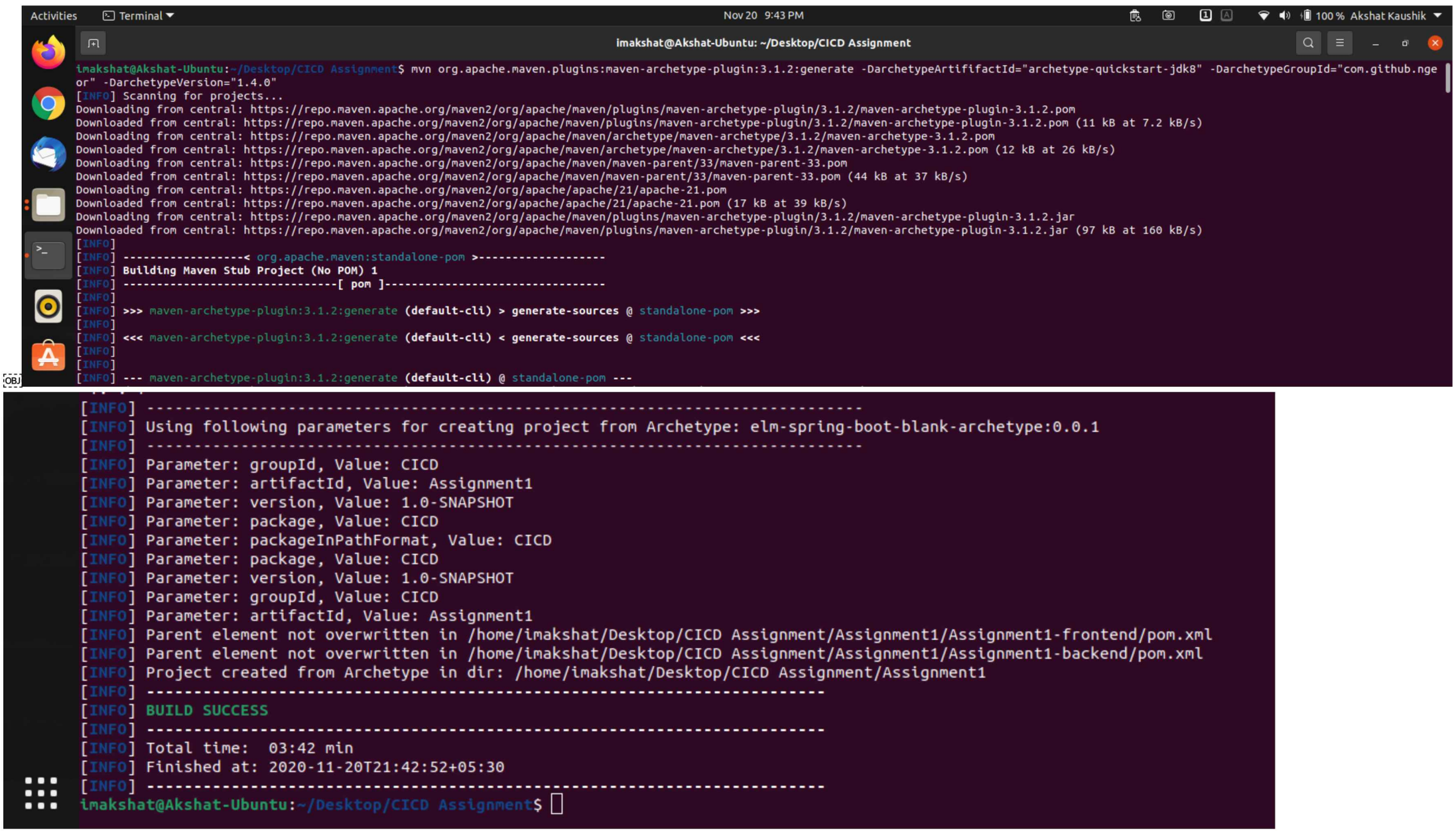
Step 2: Add Project ID, Artifact ID etc.



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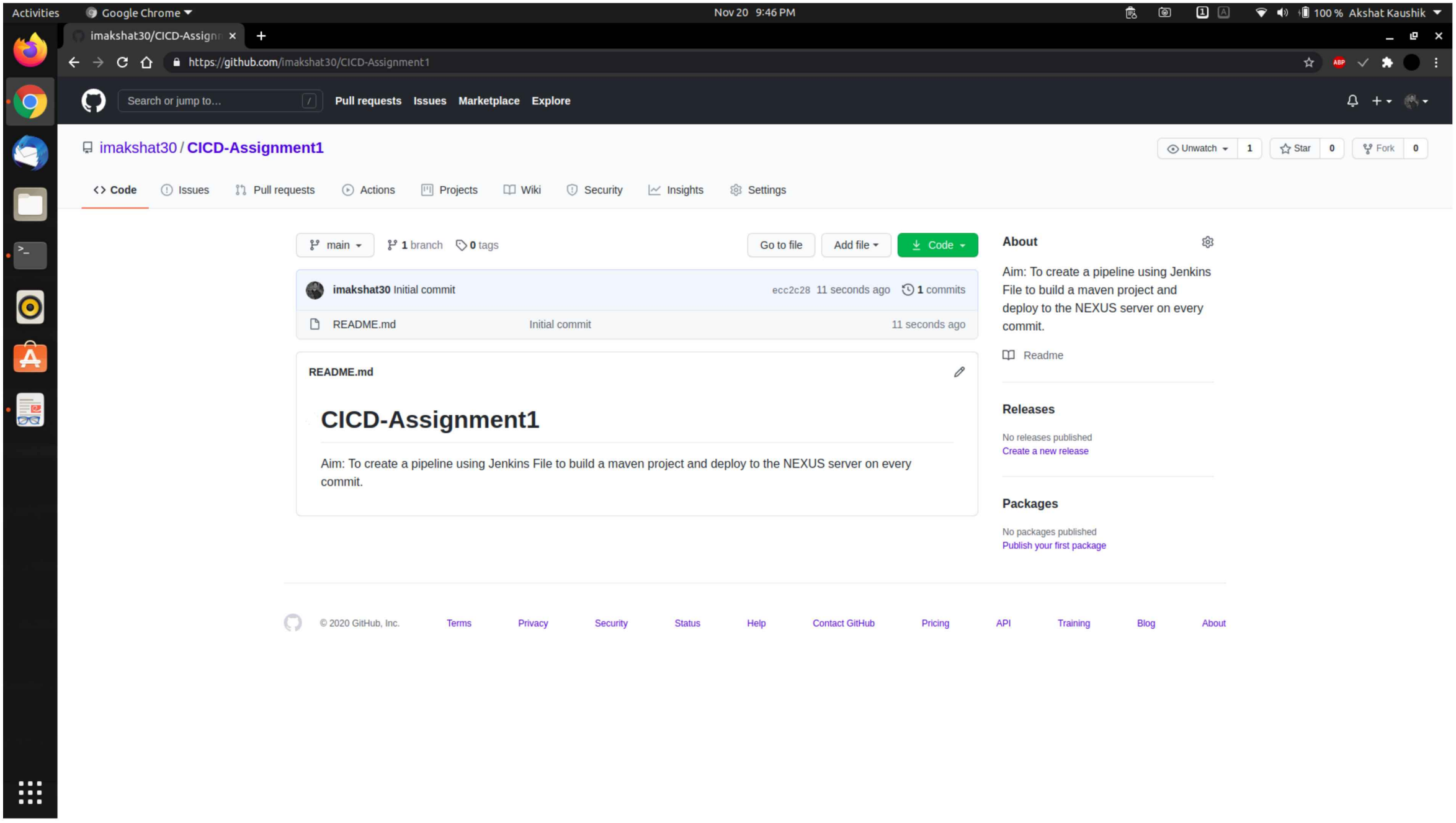
Step 3: Create a Repository on GitHub.



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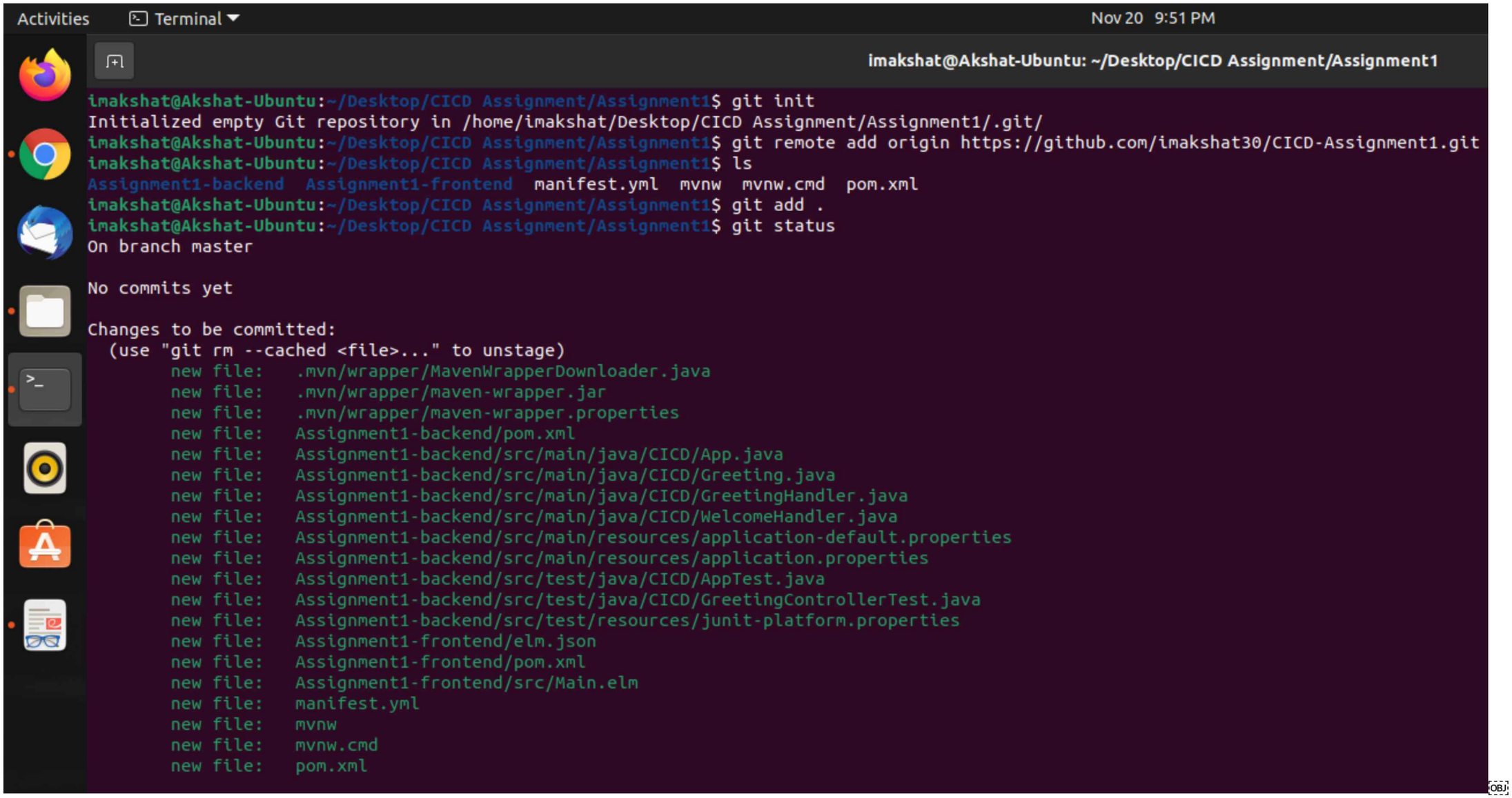
Step 4: Initialize git in project and add remote.



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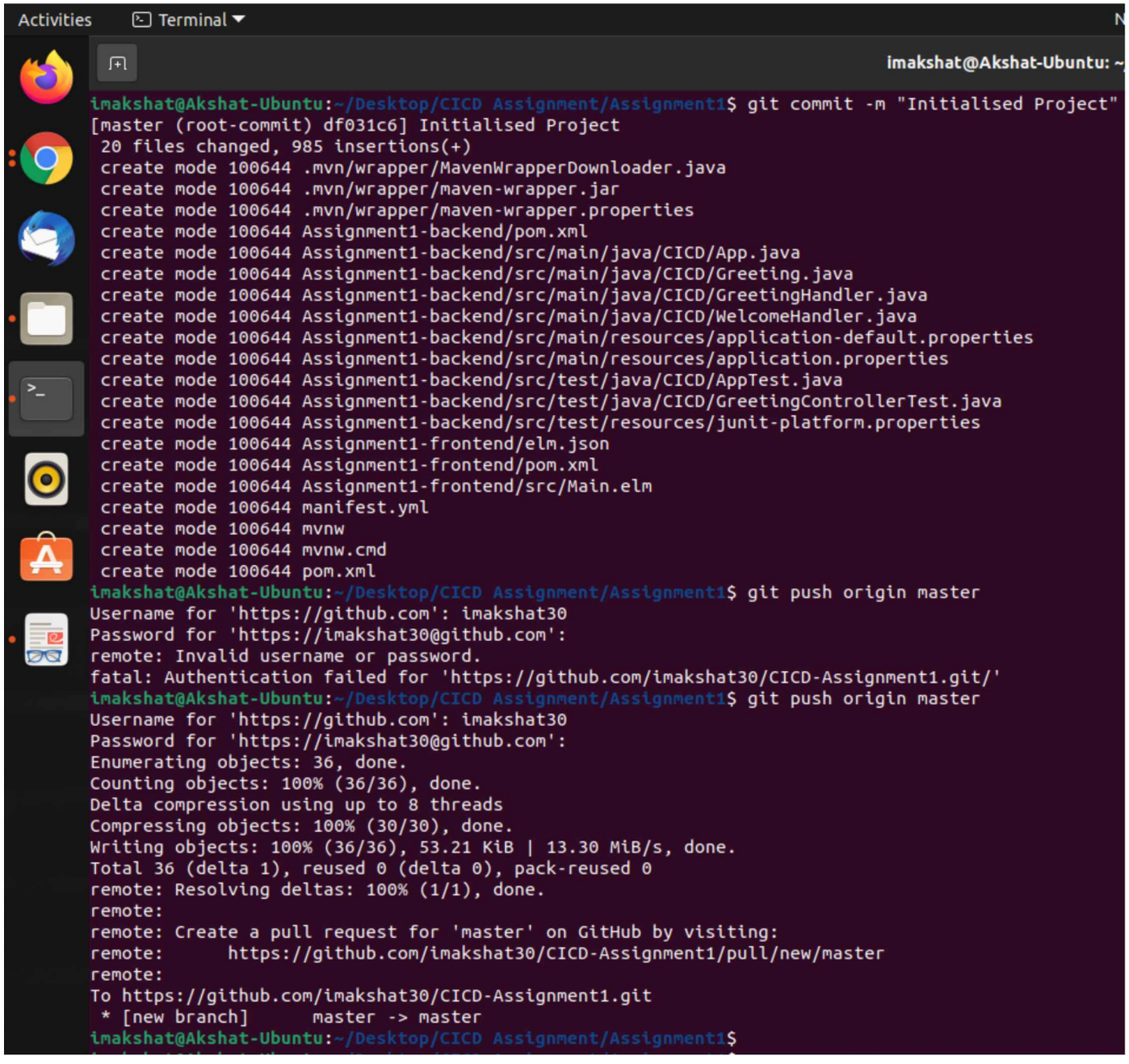
Step 5: Commit and push changes.



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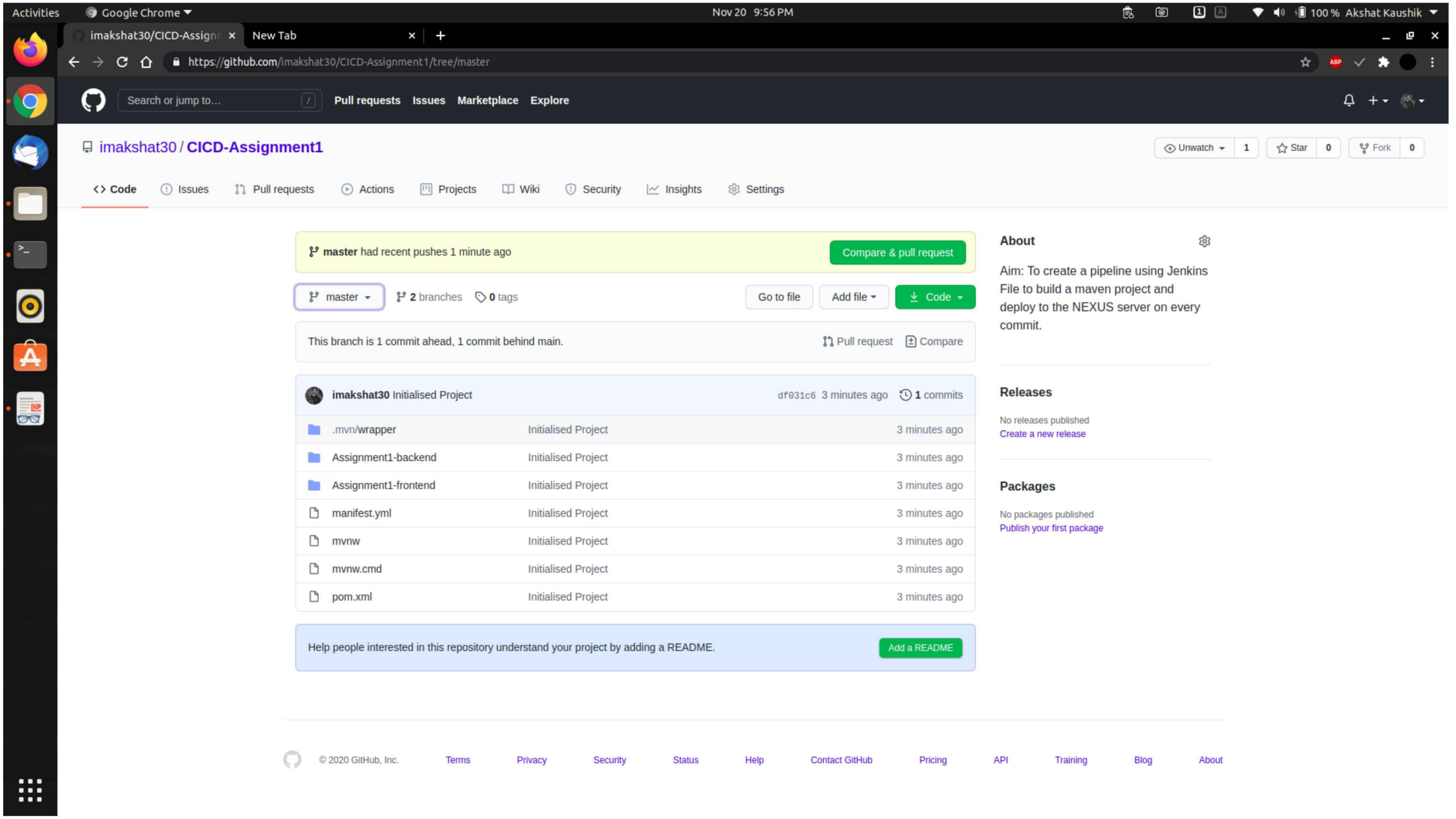

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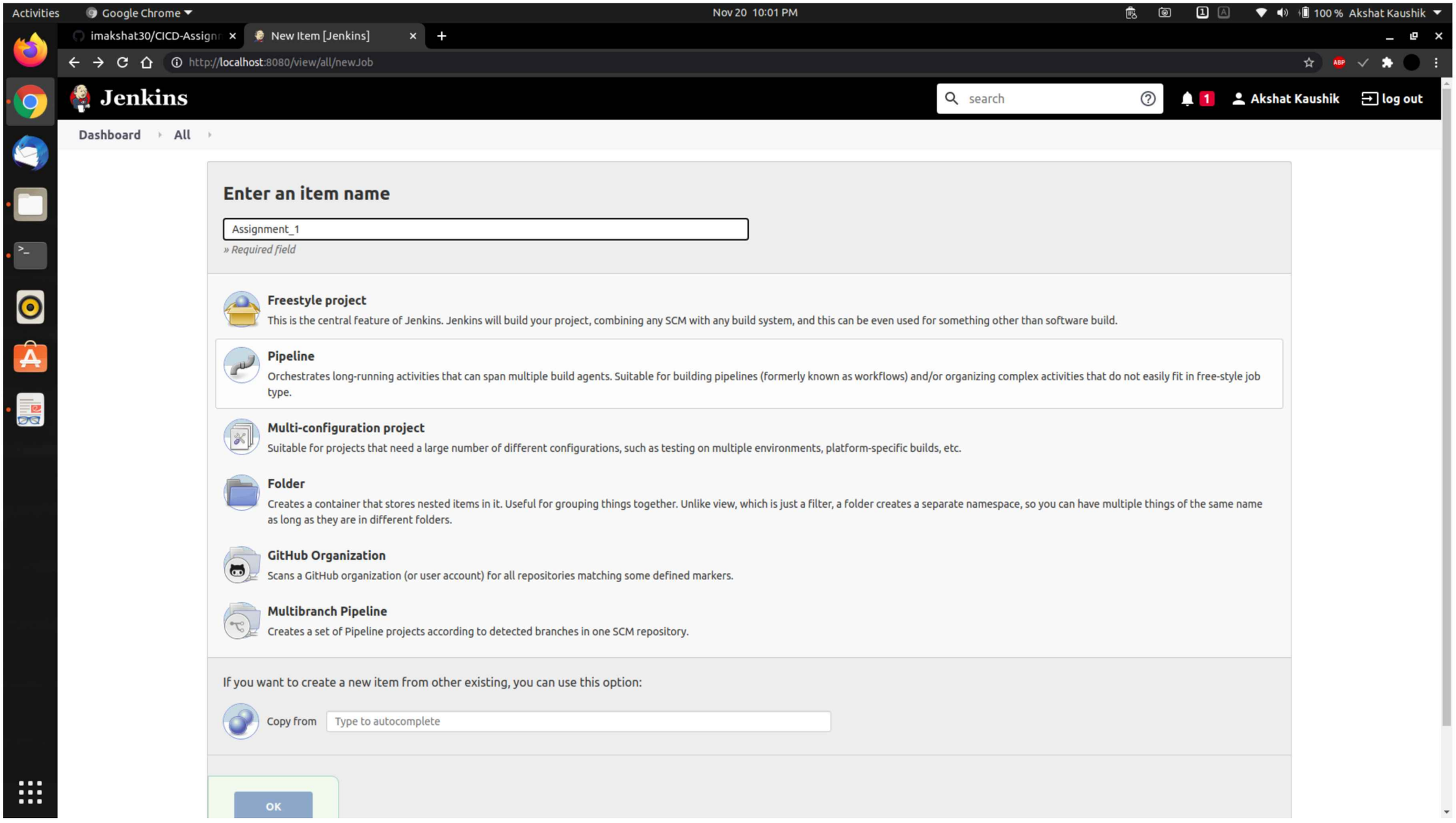
Step 6: Create a Jenkins project. Enter Name-> Pipeline -> OK



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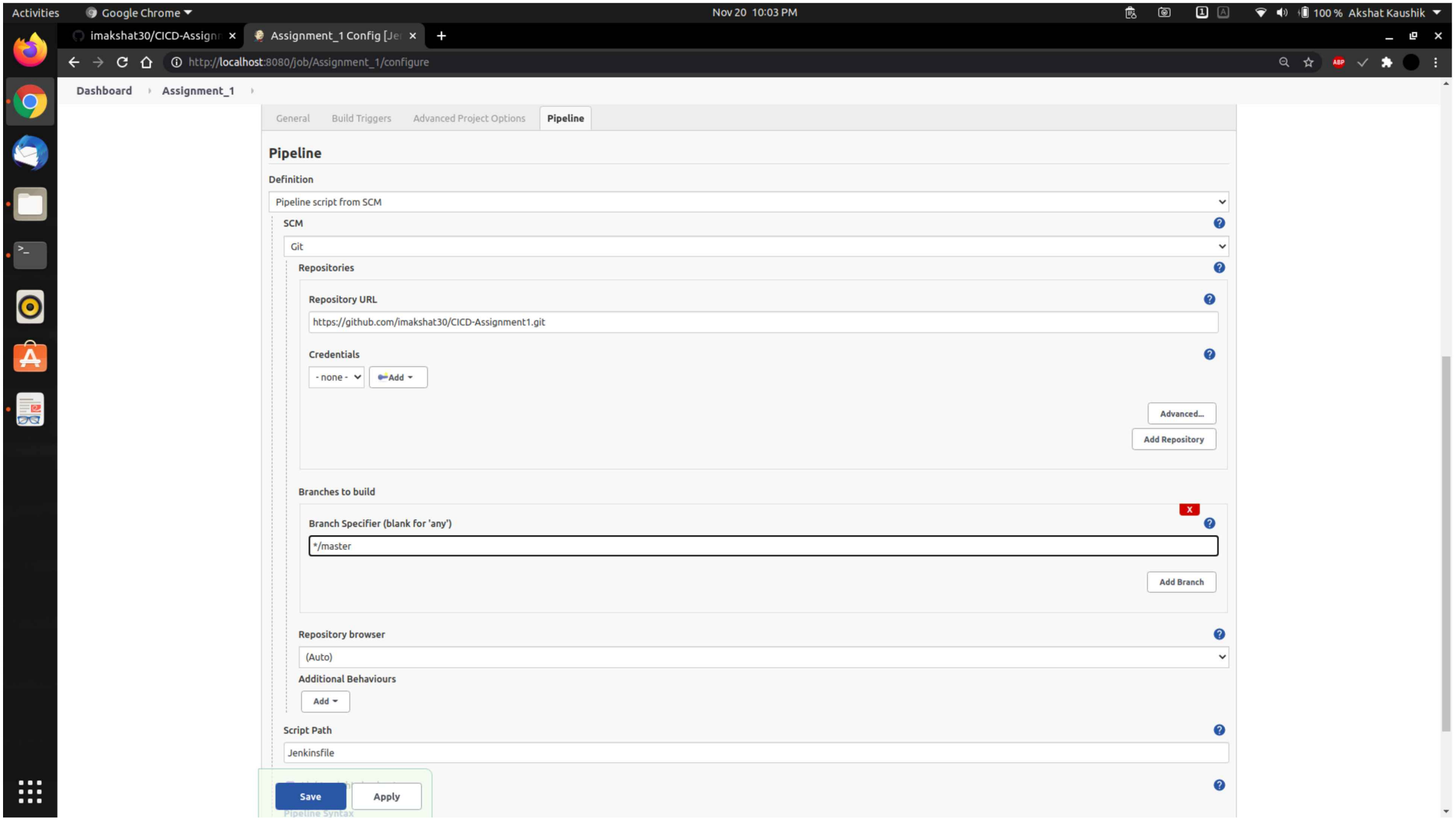
Step 7: Add SCM details and location of Jenkinsfile.



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Step 8: Create Jenkins File.

```
imakshat@Akshat-Ubuntu: ~/Desktop/CICD Assignment...    imakshat@Akshat-Ubuntu: ~/De
imakshat@Akshat-Ubuntu:~/Desktop/CICD Assignment/Assignment1$ gedit Jenkinsfile
```

ies Text Editor Nov 20 10:08 PM

Open **Jenkinsfile**
~/Desktop/CICD Assignment/Assignment1

```
pipeline{
        agent any
        stages{
                stage('Build'){
                steps{
                echo 'Build Stage'
                }
        }
        stage('Clean'){
                steps{
                sh 'mvn clean'
                }
        }
    }
}
```

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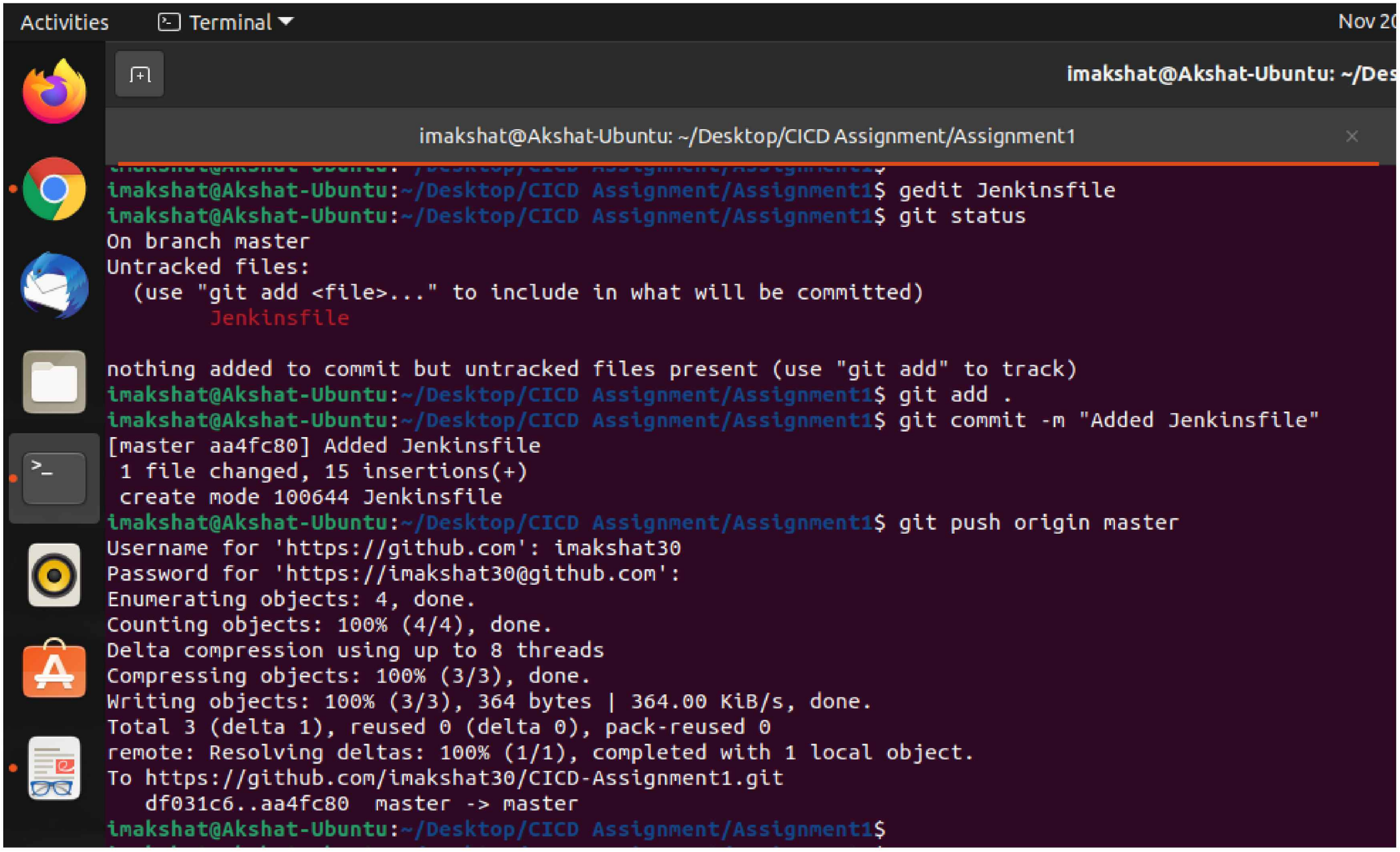
Step 9: Commit Push



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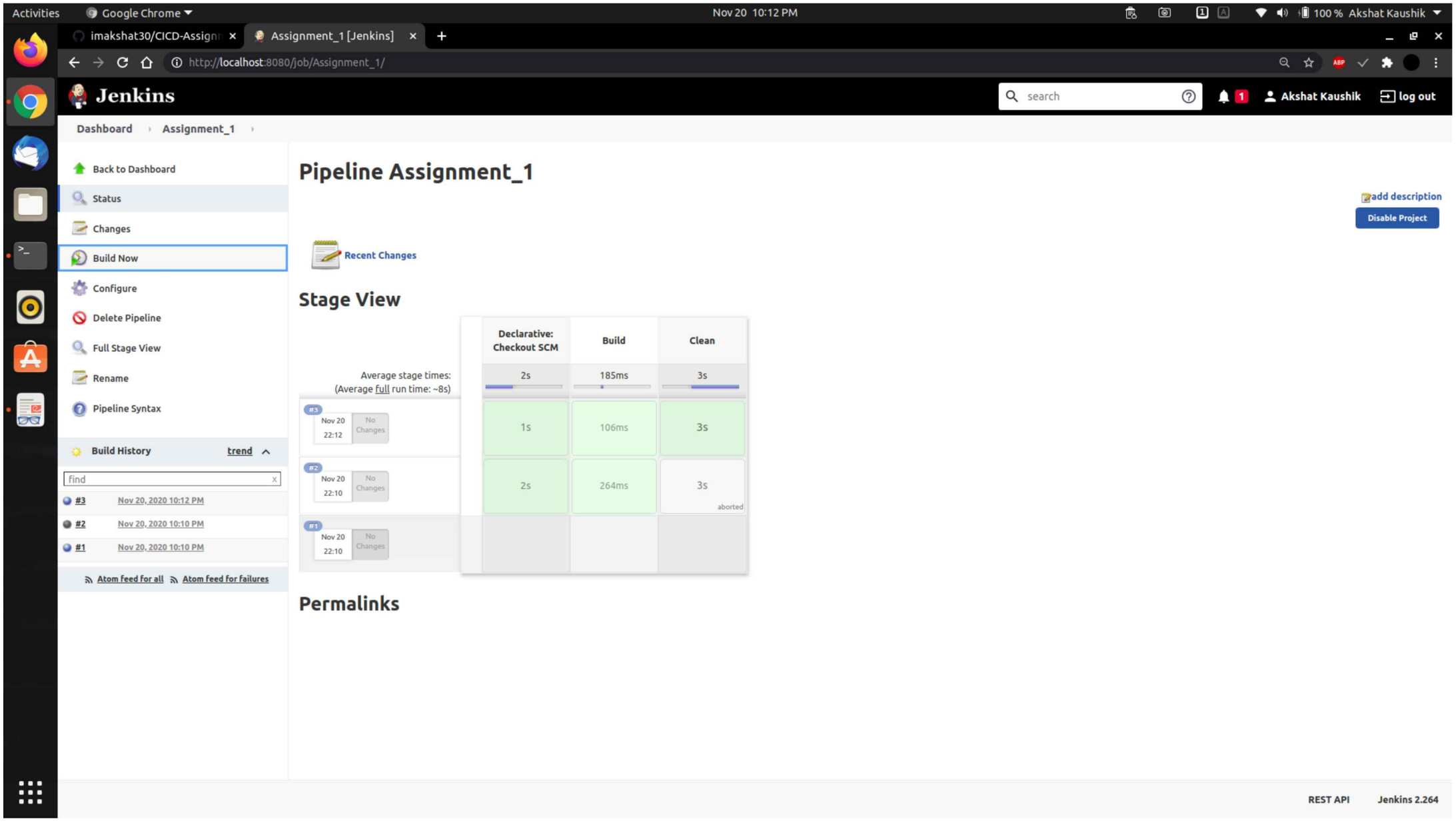
Step 10: Build will automatically be started on Jenkins.



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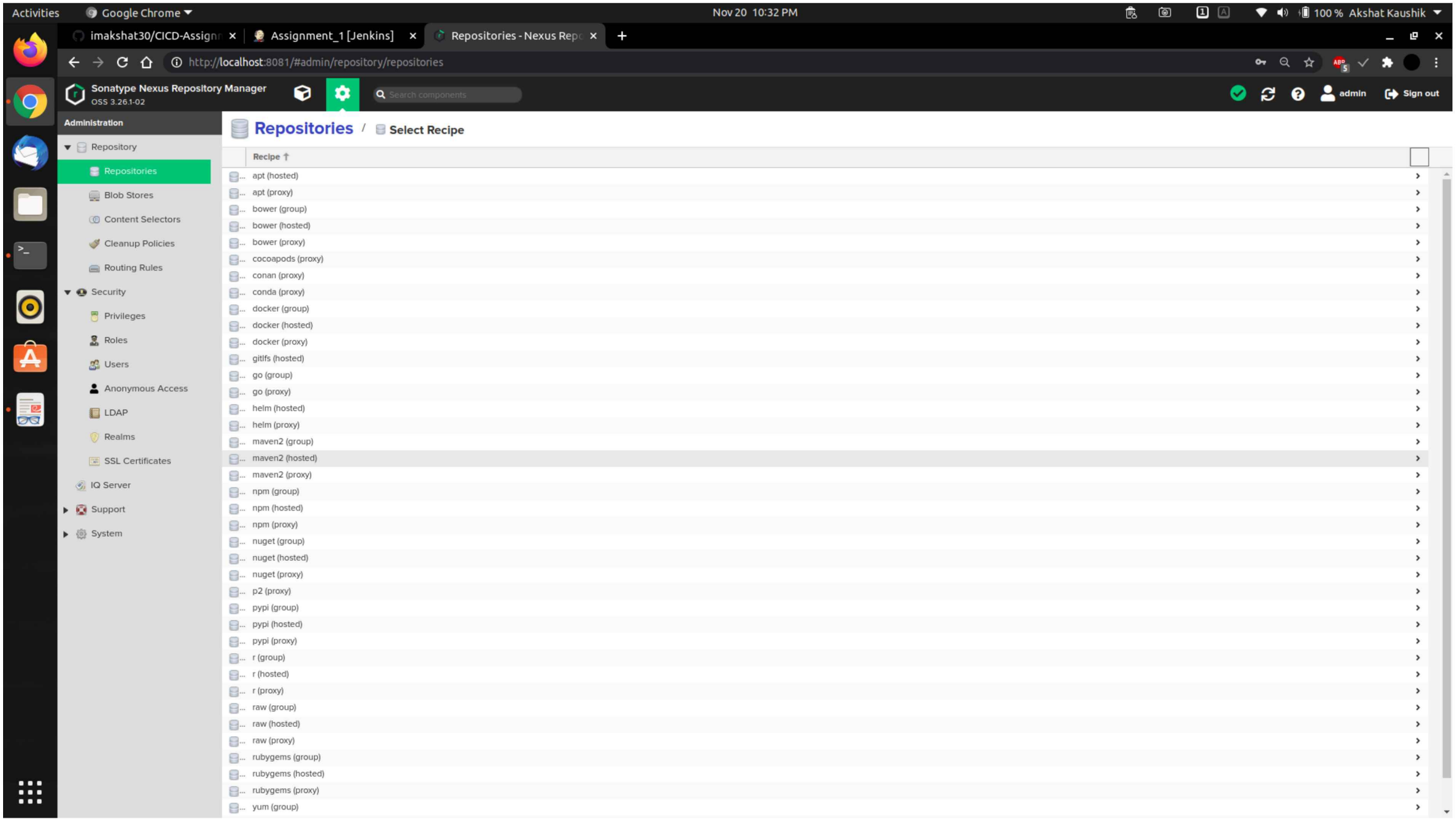
Step 11: Create an Artifact Repository on Nexus.



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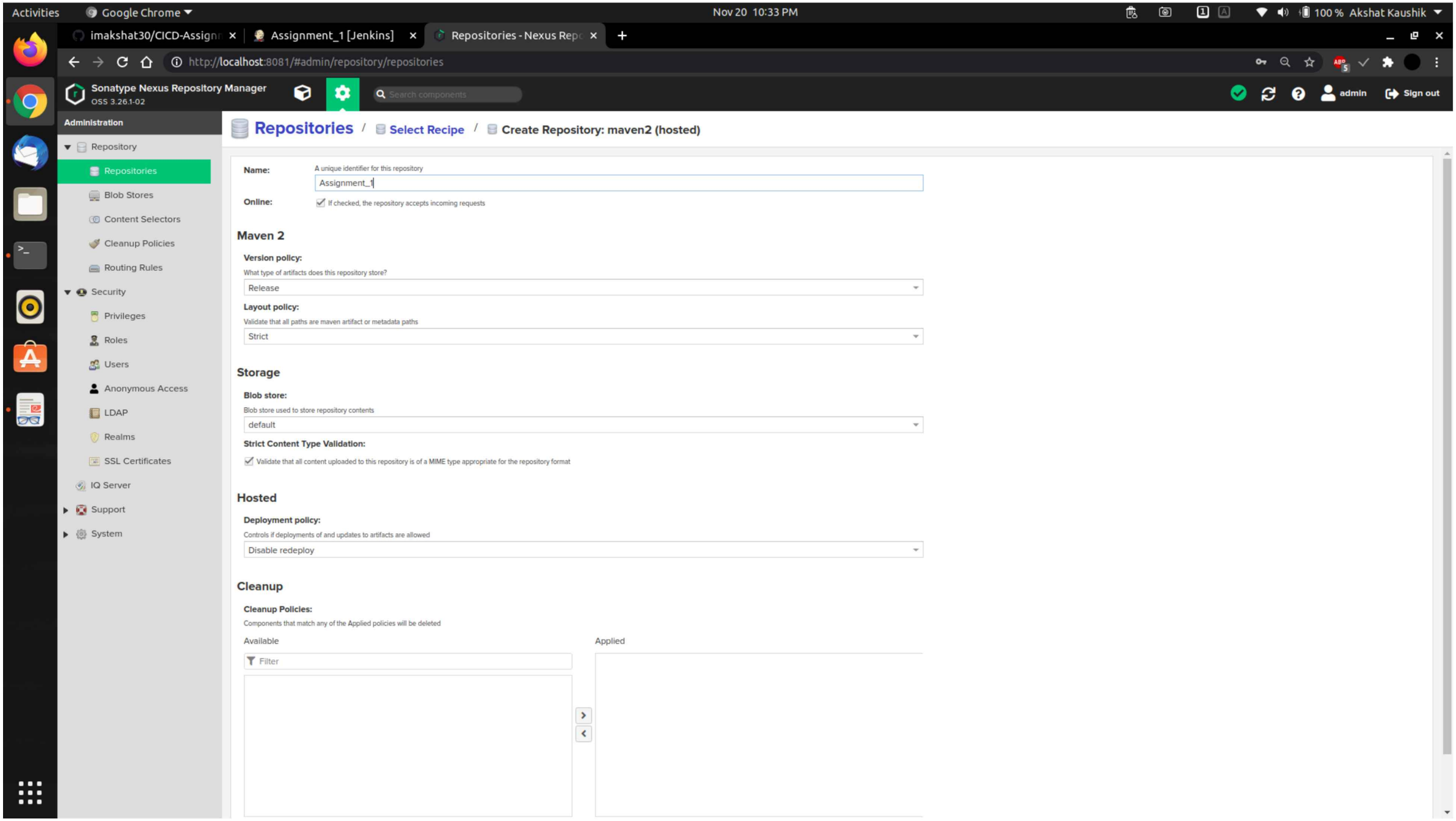

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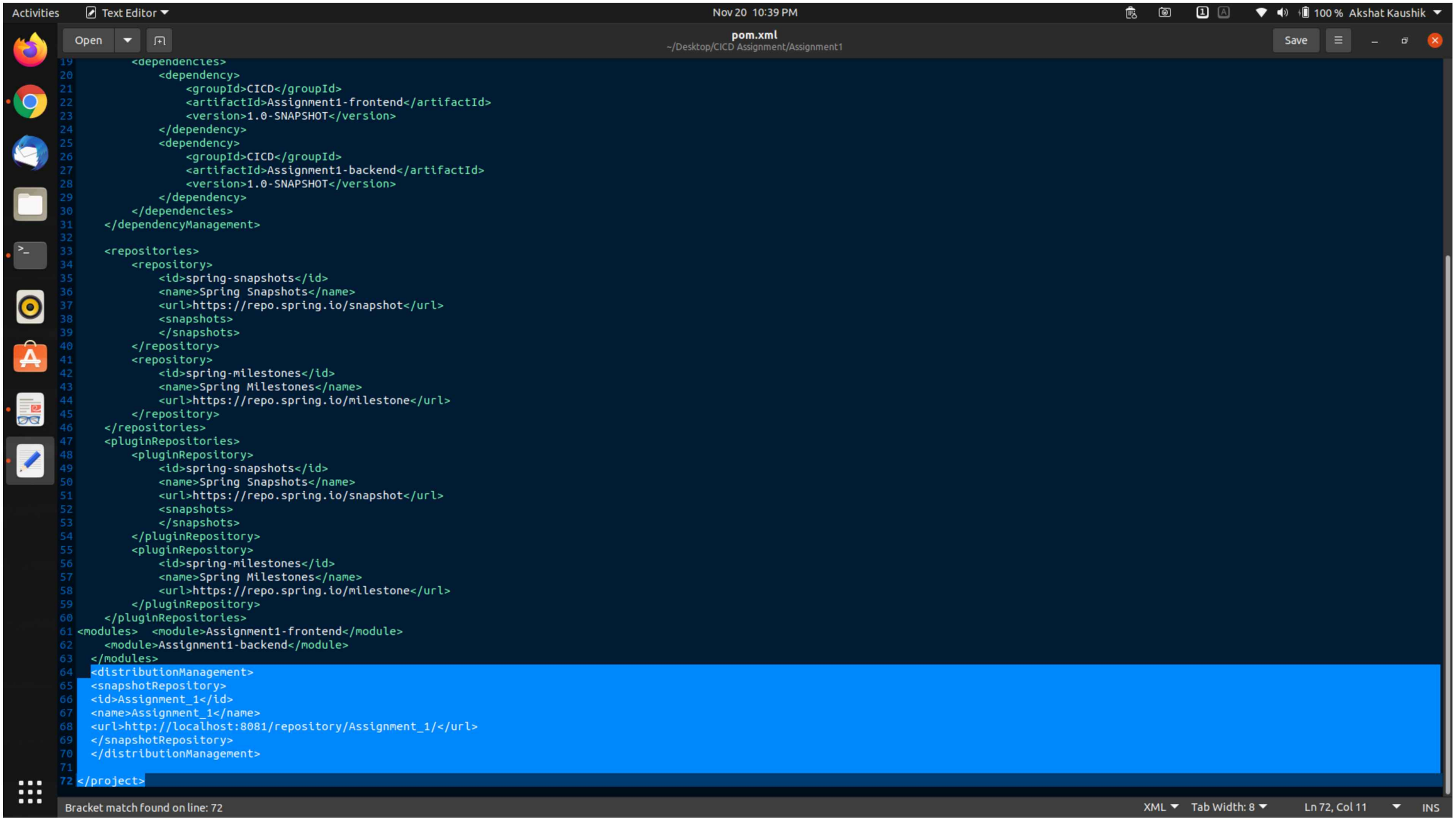
Step 12: Add Nexus Repository conf in pom.xml.



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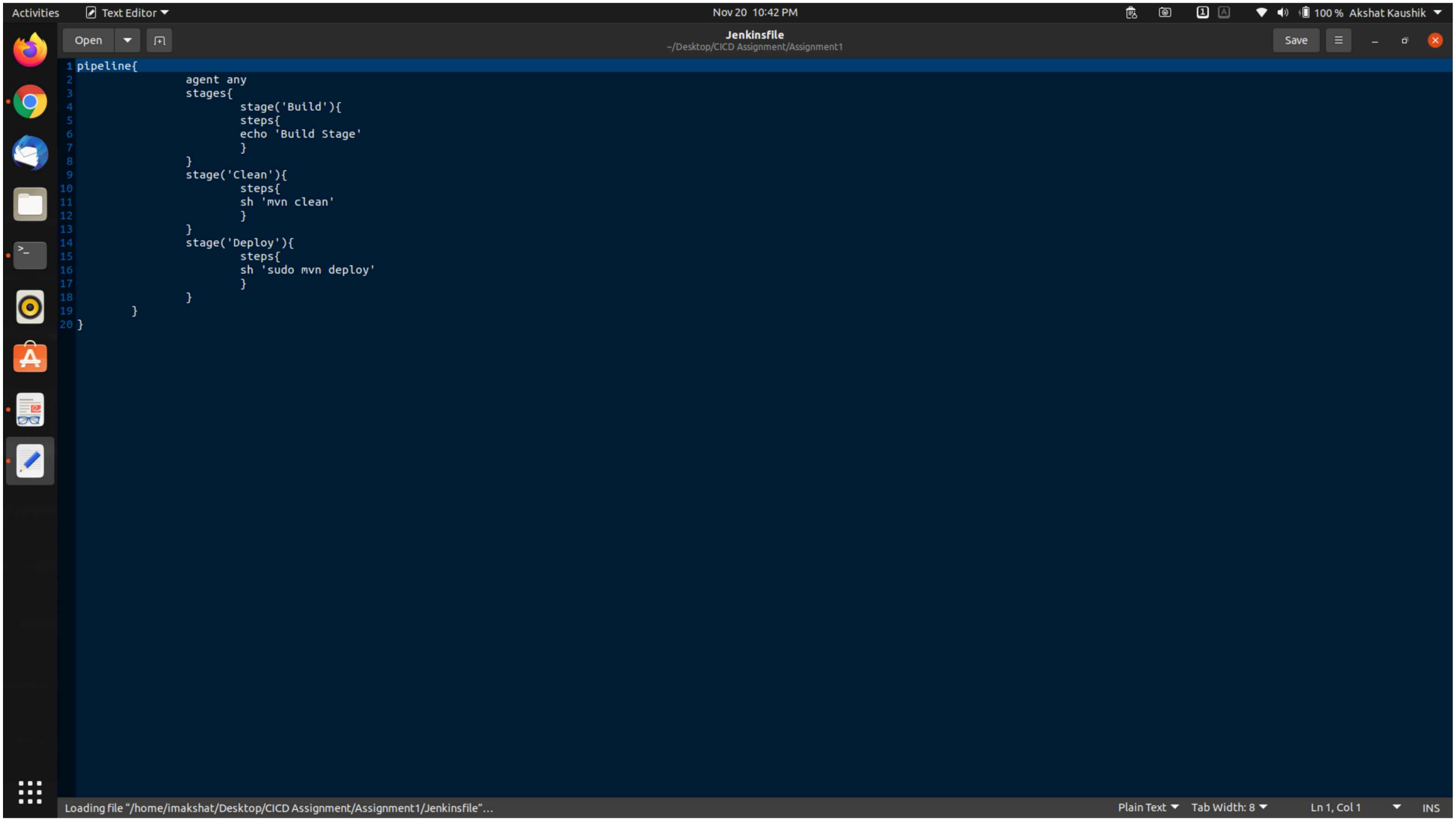
Step 13: Add Deploy stage to Jenkins File and push it to GitHub.



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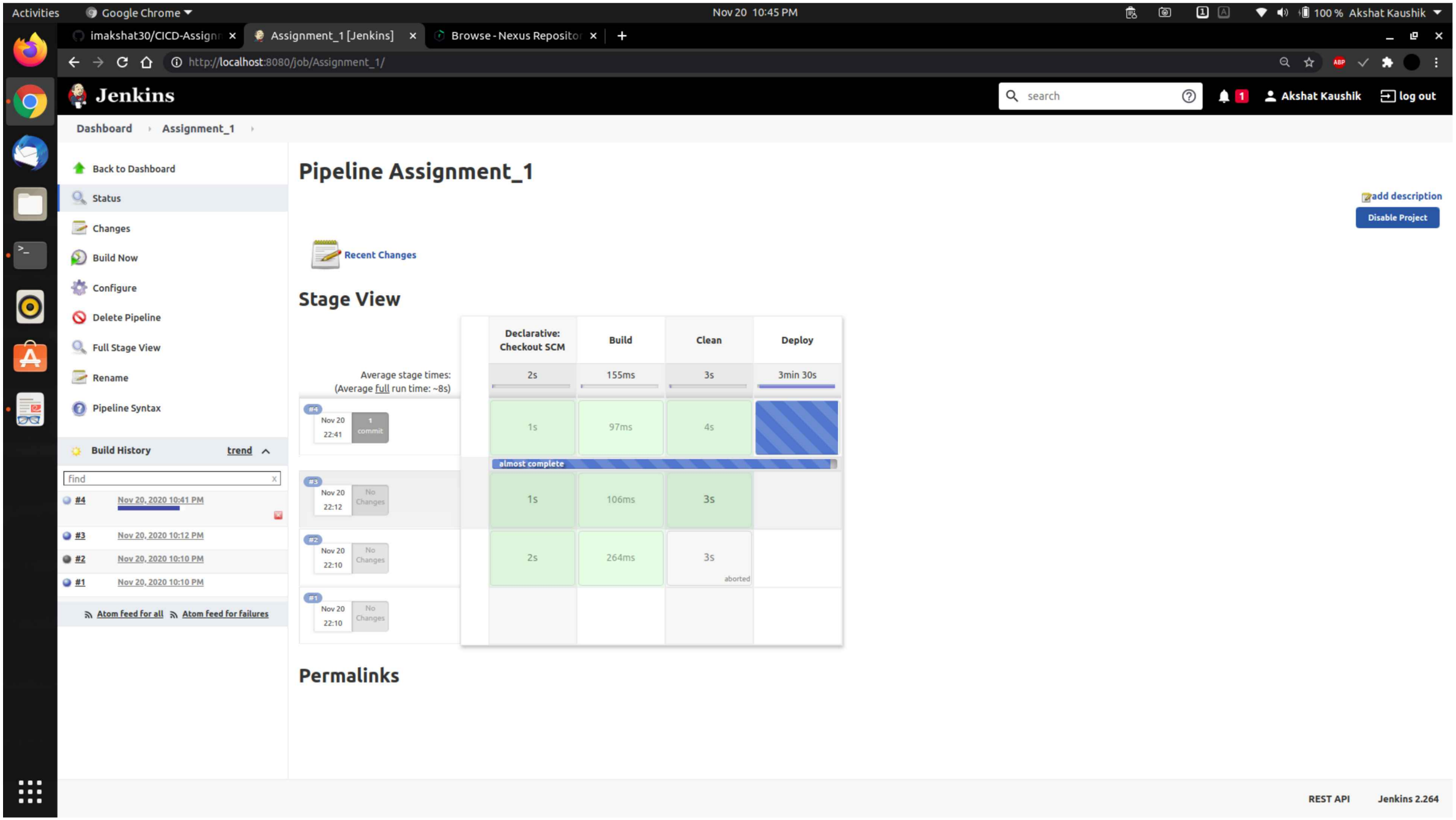
Step 14: Build will automatically be triggered.



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Step 15: Package deployed at Nexus Repository.