

Experiment No. 3.1

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Branch: MCA - CCD

Semester: IV

Subject Name: CI/CD Pipelines

UID: 22MCC20039

Section/Group: MCD-1/ Grp A

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1. Aim/Overview of the practical:

- Write a scripted pipeline for maven project.
- Now, create users in Jenkins, give matrix-based permissions.

2. Code for practical:

a.)

- Open a Java project.
- Make a file named Jenkinsfile.
- Enter following script to Jenkinsfile.

```
pipeline {
    agent any

    tools {
        maven 'mvn'
    }

    stages {
        stage("Fetching") {
            steps {
                git branch: "master",
                url: "https://github.com/Rishav518/java"
            }
        }
        stage("Compile") {
            steps {
                bat 'mvn compile'
            }
        }
        stage("Test"){
            steps{
```

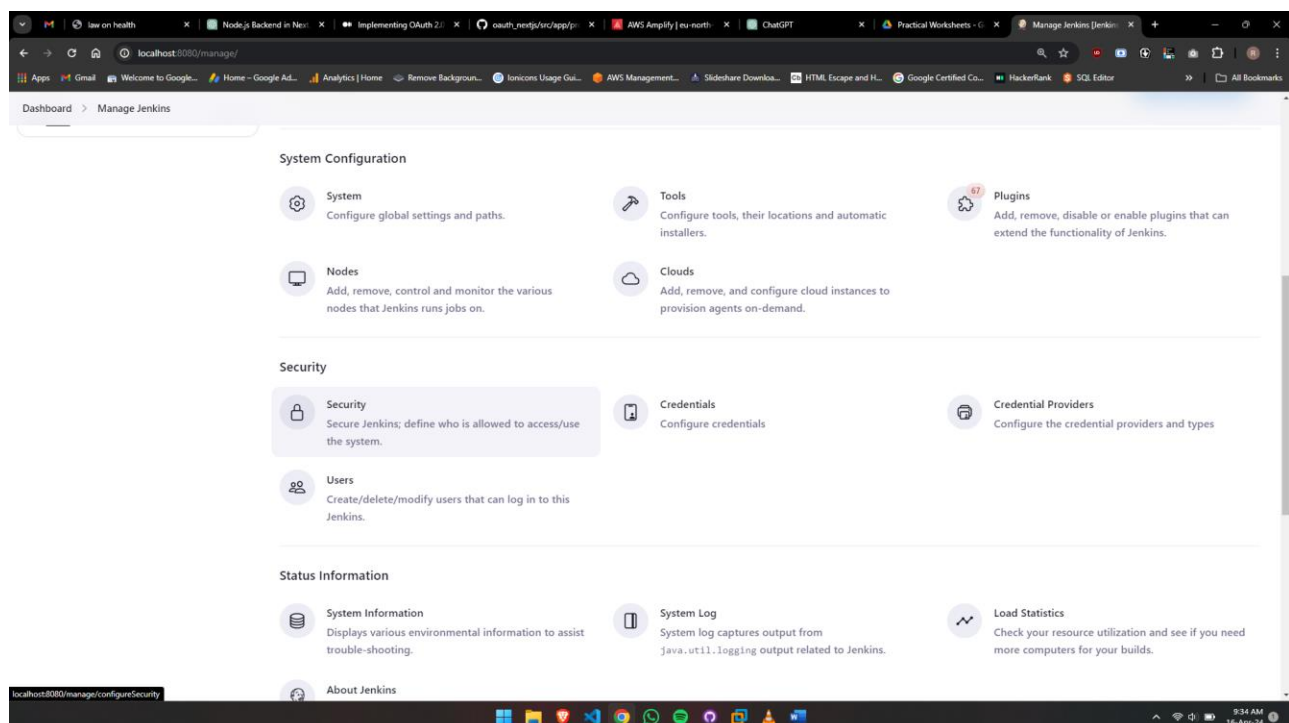
```

        bat 'mvn test'
    }
}
stage("Package"){
    steps{
        bat 'mvn package'
    }
}
stage("Verify"){
    steps{
        bat 'mvn verify'
    }
}
stage("Install"){
    steps{
        bat 'mvn install'
    }
}
}
}

```

b.)

1. Open Jenkins on localhost.
2. Go to Manage Jenkins.
3. Go to Configure Global Security.
4. Select Jenkins own User Database.
5. Tick the checkbox “Allow Users to Sign Up”.





6. Select Matrix-based security.
7. Select the button “Add user or group”.
8. Enter the user's user id and select “Administer” in the table.

The screenshot shows the Jenkins Security configuration page. The 'Security Realm' is set to 'Jenkins' own user database'. The 'Allow users to sign up' checkbox is checked. A warning message states: 'With signup enabled, anyone on your network can become an authenticated user. It is recommended in this case to minimize the permissions granted to any authenticated user.' The 'Authorization' is set to 'Matrix-based security'. A table lists permissions for various users and groups. The 'user 1' row has the 'Administer' checkbox checked. The 'Markup Formatter' section is visible at the bottom with 'Save' and 'Apply' buttons.

User/group	Overall	Configure	Manage	Read	Build	Cancel	Configure	Discover	Read	Workspace	Run	View	SCM
Anonymous													
Authenticated Users													
Rishav Kumar													
user 1													

9. Click on the "Ok" button.