

## Week 4

### 1. Jenkins Installation

The screenshot shows the Jenkins user profile page for a user named Vaishnavi. The top navigation bar includes links for Status, Builds, My Views, Account, Appearance, Preferences, Security, Experiments, and Credentials. The main content area displays the Jenkins User ID: vaishnavi\_dn. On the right side, there are search and filter icons, and a button labeled "Add description".

### 2. Jenkins Configuration page

The screenshot shows the Jenkins configuration page. It features a "New Item" button and a "Build History" section with "All" and "+" buttons. Below this is a "Build Queue" section indicating "No builds in the queue." To the right is a "Build Executor Status" table:

S	W	Name ↓	Last Success	Last Failure	Last Duration
		sgrs_ci	2 min 23 sec #2	N/A	3.9 sec

At the bottom, there are icons for S, M, and L, and a "REST API" link.

### 3. First successful build output

The screenshot shows the Jenkins interface for a build named 'sgrs\_ci' under job '#1'. The 'Console Output' tab is selected. The output log shows the following steps:

```
Started by user Vaishnavi
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\.jenkins\workspace\sgrs_ci
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
  Cloning repository https://github.com/dnvaishnavi/StudentsGrievance-RedressalSystem.git
    > git.exe init C:\ProgramData\Jenkins\.jenkins\workspace\sgrs_ci # timeout=10
  Fetching upstream changes from https://github.com/dnvaishnavi/StudentsGrievance-RedressalSystem.git
    > git.exe --version # timeout=10
    > git --version # 'git version 2.46.0.windows.1'
    > git.exe fetch --tags --force --progress -- https://github.com/dnvaishnavi/StudentsGrievance-RedressalSystem.git +refs/heads/*:refs/remotes/origin/* # timeout=10
    > git.exe config remote.origin.url https://github.com/dnvaishnavi/StudentsGrievance-RedressalSystem.git #
      timeout=10
    > git.exe config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
  Avoid second fetch
    > git.exe rev-parse "refs/remotes/origin/main^{commit}" # timeout=10
  Checking out Revision 7aabbff3e8fff4726d115c98b80ca20cf3aac9fa44 (refs/remotes/origin/main)
    > git.exe config core.sparsecheckout # timeout=10
    > git.exe checkout -f 7aabbff3e8fff4726d115c98b80ca20cf3aac9fa44 # timeout=10
```

#### 4. Changes reflected in jenkins when committed changes in git repo

The screenshot shows the Jenkins interface for a build named 'sgrs\_ci' under job '#6'. The 'Changes' tab is selected. It displays a summary of changes:

Summary

1. l (details)

Commit 7a8a97037e39e176fd7cf2b53a9d58fc053633d5 by varshinikarri9

l  
+ nf.txt

## Learnings About Jenkins

Jenkins is an open-source automation server mainly used for Continuous Integration (CI) and Continuous Deployment/Delivery (CD)

Automates repetitive tasks like building, testing, and deploying software.

it pulls code from Git, builds it, runs tests, and deploys automatically, making software delivery **faster, reliable, and repeatable**.