

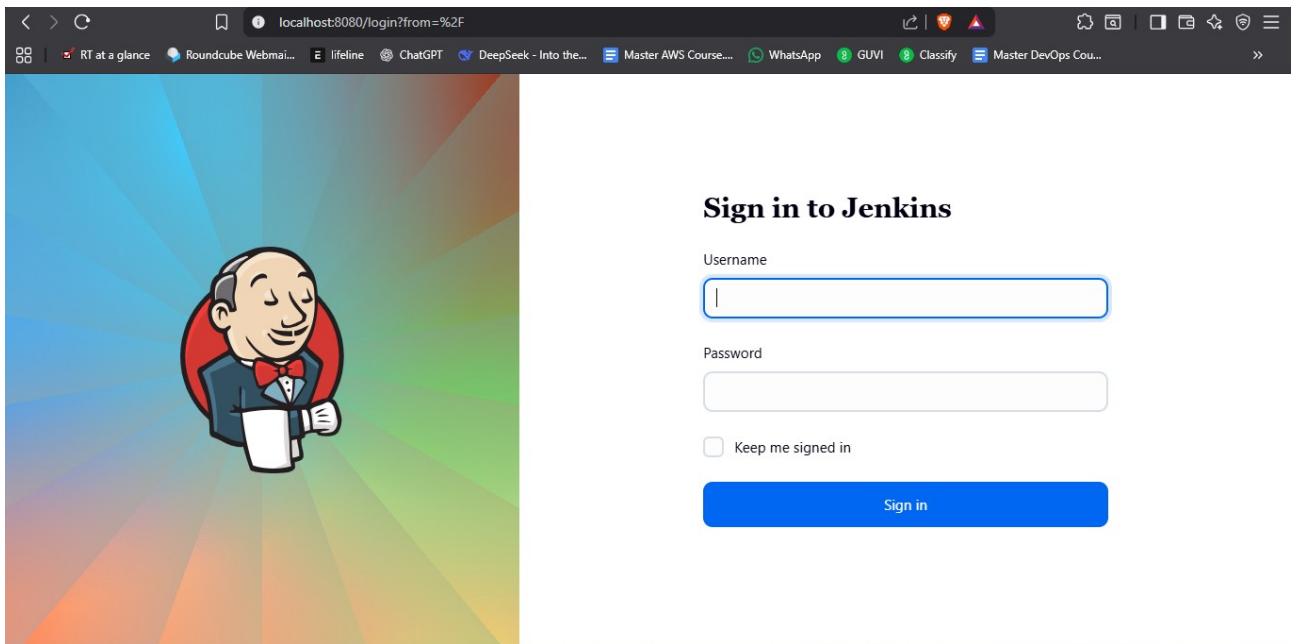
## Jenkins Task

### Task Description:

Launch jenkins and explore creating projects and users.

### What i going to do.

I am going to install jenkins in windows environment, as jenkins runs with base java, so i installed jdk21 and copied the java path **C:\Program Files\Java\jdk-21** , which should be given in jenkins java path during installation , i installed jenkins on my local host for demo purpose and all done and default admin password also changed. And logged in.



A screenshot of the Jenkins dashboard. The URL in the address bar is "localhost:8080". The dashboard includes a sidebar with options like "New Item", "Build History", "Build Queue" (which shows "No builds in the queue."), and "Build Executor Status" (which shows "0/2"). The main content area features a "Welcome to Jenkins!" message, a "Start building your software project" button, and sections for "Set up a distributed build" with links to "Set up an agent", "Configure a cloud", and "Learn more about distributed builds". There are also "Add description" and "Help" buttons in the top right corner.

## 2. i created a simple pipeline project of hello world.

The screenshot shows the Jenkins 'New Item' creation interface. At the top, there's a search bar with the URL 'localhost:8080/view/all/newJob'. Below it, a navigation bar includes links for 'RT at a glance', 'Roundcube Webmail...', 'lifeline', 'ChatGPT', 'DeepSeek - Into the...', 'Master AWS Course...', 'WhatsApp', 'GUFI', 'Classify', and 'Master DevOps Cou...'. On the left, there's a Jenkins logo and a 'Jenkins' link. The main area is titled 'New Item' and has a sub-section 'Enter an item name' with a text input field containing 'My-First-Pipeline'. Below this, there's a section 'Select an item type' with three options: 'Freestyle project', 'Pipeline', and 'Multi-configuration project'. The 'Pipeline' option is highlighted with a light gray background. A blue 'OK' button is at the bottom of the form.

The screenshot shows the Jenkins Pipeline configuration page for the 'My-First-Pipeline' job. The URL is 'localhost:8080/job/My-First-Pipeline/configure'. The left sidebar has tabs for 'General', 'Triggers', 'Pipeline' (which is selected and highlighted in blue), and 'Advanced'. The main area is titled 'Configure' and contains a 'Pipeline script' editor. The editor shows a Groovy script with the following code:

```
1~ pipeline {
2~   agent any
3~
4~   stages {
5~     stage('Build') {
6~       steps {
7~         echo 'Hello World!'
8~       }
9~     }
10~   }
11~ }
```

Below the editor are 'Save' and 'Apply' buttons.

localhost:8080/job/My-First-Pipeline/

Jenkins / My-First-Pipeline

Status My-First-Pipeline Add description

</> Changes

Build Now

Configure

Delete Pipeline

Stages

Rename

Pipeline Syntax

Builds

Today

#1 4:51 PM

REST API Jenkins 2.516.1

This screenshot shows the Jenkins pipeline status page for 'My-First-Pipeline'. The pipeline has one build in progress, identified as '#1' at 4:51 PM. The build status is shown as 'In Progress' with a blue progress bar. The pipeline configuration is visible on the left, and the Jenkins version is 2.516.1.

localhost:8080/job/My-First-Pipeline/

Jenkins / My-First-Pipeline

Status My-First-Pipeline Add description

</> Changes

Build Now

Configure

Delete Pipeline

Stages

Rename

Pipeline Syntax

My-First-Pipeline

Permalinks

- Last build (#1), 22 sec ago
- Last stable build (#1), 22 sec ago
- Last successful build (#1), 22 sec ago
- Last completed build (#1), 22 sec ago

This screenshot shows the Jenkins pipeline status page for 'My-First-Pipeline'. The pipeline has completed four builds, all of which are marked as successful. The status bar at the top indicates a green checkmark. The pipeline configuration is visible on the left.

localhost:8080/job/My-First-Pipeline/1/console

**Jenkins / My-First-Pipeline / #1**

**Console Output**

Started by user PRABU S R  
[Pipeline] Start of Pipeline  
[Pipeline] node  
Running on Jenkins in C:\ProgramData\Jenkins\.jenkins\workspace\My-First-Pipeline  
[Pipeline] {  
[Pipeline] stage  
[Pipeline] { (Build)  
[Pipeline] echo  
Hello World!  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] }  
[Pipeline] // node  
[Pipeline] End of Pipeline  
Finished: SUCCESS

REST API Jenkins 2.516.1

**Jenkins**

+ New Item

Build History All +

Add description

| S | W  | Name ↓            | Last Success    | Last Failure | Last Duration |
|---|----|-------------------|-----------------|--------------|---------------|
| ✓ | ☀️ | My-First-Pipeline | 3 min 25 sec #1 | N/A          | 11 sec        |

Build Queue: No builds in the queue.

Build Executor Status: 0/2

Icon: S M L

REST API Jenkins 2.516.1

The screenshot shows the Jenkins Build History page at [localhost:8080/view/all/builds](http://localhost:8080/view/all/builds). The main title is "Build History of Jenkins". On the left, there's a sidebar with "Build Queue" (empty) and "Build Executor Status" (0/2). The main area lists two builds:

| S | Build                | Time Since   | Status |
|---|----------------------|--------------|--------|
| ✓ | My-First-Pipeline #2 | 14 sec       | stable |
| ✓ | My-First-Pipeline #1 | 3 min 59 sec | stable |

At the bottom right, it says "REST API Jenkins 2.516.1". The system tray at the bottom shows network speed (▲ 19 kbit, ▼ 14 kbit), language (ENG IN), and date (16-11-2025).

### 3. create user and create manage role(group creation and assign roles to user)

The screenshot shows the Jenkins Manage Jenkins page at [localhost:8080/manage/](http://localhost:8080/manage/). The main title is "Manage Jenkins". The "Security" section is highlighted:

- Nodes**: Add, remove, control and monitor the various nodes that Jenkins runs jobs on.
- Clouds**: Add, remove, and configure cloud instances to provision agents on-demand.
- Appearance**: Configure the look and feel of Jenkins.
- Security**: Secure Jenkins; define who is allowed to access/use the system.
- Credentials**: Configure credentials.
- Credential Providers**: Configure the credential providers and types.
- Users**: Create/delete/modify users that can log in to this Jenkins.

At the bottom, there are links for "System Log" and "Load Statistics". The system tray at the bottom shows network speed (▲ 2.6 kbit, ▼ 3.0 kbit), language (ENG IN), and date (05:20 16-11-2025).

localhost:8080/manage/securityRealm/addUser

Jenkins / Manage Jenkins / Jenkins' own user database / Create User

### Create User

Username

Password

Confirm password

Full name

E-mail address

**Create User**

localhost:8080/securityRealm/createAccountByAdmin

Jenkins / Jenkins' own user database / Create User

### Create User

Username

Password

Confirm password

Full name

E-mail address

**Create User**

localhost:8080/manage/pluginManager/installed

Jenkins / Manage Jenkins / Plugins

Plugins

Updates 54 Available plugins Installed plugins Advanced settings Download progress

Warning: This Jenkins instance requires a restart. Changing the state of plugins at this time is strongly discouraged. Restart Jenkins before proceeding.

| Name                                                | Health | Enabled                             |
|-----------------------------------------------------|--------|-------------------------------------|
| Role-based Authorization Strategy 840.v206ff7f7312e | 100    | <input checked="" type="checkbox"/> |

Report an issue with this plugin

⚠ Changes will take effect when you restart Jenkins [Restart Once No Jobs Are Running](#)

localhost:8080/manage/

Jenkins / Manage Jenkins

Add, remove, control and monitor the various nodes that Jenkins runs jobs on.

Add, remove, and configure cloud instances to provision agents on-demand.

Configure the look and feel of Jenkins

Security

Security Secure Jenkins; define who is allowed to access/use the system.

Credentials Configure credentials

Credential Providers Configure the credential providers and types

Users Create/delete/modify users that can log in to this Jenkins.

Status Information

System Information Displays various environmental information to assist trouble-shooting.

System Log System log captures output from java.util.logging output related to Jenkins.

Load Statistics Check your resource utilization and see if you need more computers for your builds.

localhost:8080/manage/configureSecurity

#### Authorization

Role-Based Strategy

localhost:8080/manage/ Jenkins / Manage Jenkins

Add, remove, control and monitor the various nodes that Jenkins runs jobs on.

Add, remove, and configure cloud instances to provision agents on-demand.

Configure the look and feel of Jenkins

### Security

- Security**  
Secure Jenkins; define who is allowed to access/use the system.
- Manage and Assign Roles**  
Handle permissions by creating roles and assigning them to users/groups
- Credentials**  
Configure credentials
- Credential Providers**  
Configure the credential providers and types
- Users**  
Create/delete/modify users that can log in to this Jenkins.

### Status Information

- System Information**  
Displays various environmental information to assist trouble-shooting.
- System Log**  
System log captures output from `java.util.logging` output related to Jenkins.
- Load Statistics**  
Check your resource utilization and see if you need more computers for your builds.

localhost:8080/manage/role-strategy

localhost:8080/manage/role-strategy/ Jenkins / Manage Jenkins / Manage and Assign Roles / Manage Roles

## Manage Roles

Manage Roles

Assign Roles

Permission Templates

Role Strategy Macros

| Overall | Credentials   | Agent                                                                         | Job                                                                        | Run                                                                                                                 | View                                              |
|---------|---------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Role    | ManageDomains | View<br>Update<br>Delete<br>Create<br>Delete<br>Connect<br>Configure<br>Build | Provision<br>Disconnect<br>Delete<br>Create<br>Delete<br>Discover<br>Build | Create<br>Move<br>Delete<br>Discover<br>Read<br>Move<br>Delete<br>Configure<br>Create<br>Delete<br>Discover<br>Read | Configure<br>Create<br>Delete<br>Discover<br>Read |
| Role    | admin         | <input checked="" type="checkbox"/>                                           | <input type="checkbox"/>                                                   | <input type="checkbox"/>                                                                                            | <input type="checkbox"/>                          |

Role to add

Save Apply

localhost:8080/manage/role-strategy/

Jenkins / Manage Jenkins / Manage and Assign Roles / Manage Roles

Manage Roles

Overall Credentials Agent Job Run

Configure Update Replay Delete Workspace Read Move Discover Configure Create Cancel Provision Build Disconnect Create Connect Configure View

| Role      | Administer                          | Read                                | Create                   | Update                   | ManageDomains            | View                     |
|-----------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| admin     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| temp user | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Role to add: temp user

Add Save Apply

This screenshot shows the Jenkins Role Strategy Management interface. It displays a grid of permissions for two users: 'admin' and 'temp user'. The columns represent various Jenkins management tasks like 'Administer', 'Read', 'Create', etc. The 'temp user' has been granted 'Read' and 'Create' permissions for 'Administer' and 'ManageDomains' tasks. Below the grid, there's a section to add a new role named 'temp user'.

localhost:8080/manage/role-strategy/assign-roles

Jenkins / Manage Jenkins / Manage and Assign Roles / Assign Roles

Assign Roles

Global roles

| User/Group          | temp user                           | admin                               |
|---------------------|-------------------------------------|-------------------------------------|
| Anonymous           | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Authenticated Users | <input type="checkbox"/>            | <input type="checkbox"/>            |
| PRABU S R           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| testuser            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Add User Add Group

This screenshot shows the Jenkins Assign Roles interface. It lists global roles ('Anonymous', 'Authenticated Users') and specific users ('PRABU S R', 'testuser'). The 'temp user' role is assigned to both 'PRABU S R' and 'testuser'. There are buttons to add new users or groups.

localhost:8080/manage/role-strategy/assign-roles

Jenkins / Manage Jenkins / Manage and Assign Roles / Assign Roles

Manage Roles

Assign Roles

Permission Templates

Role Strategy Macros

Item roles

User/Group

Anonymous

Authenticated Users

testuser

Add User Add Group

Agent roles

Save Apply

This screenshot shows the 'Assign Roles' section of the Jenkins Role Strategy configuration. It displays a table of users and groups under the 'User/Group' heading. Under 'Anonymous', there are two empty checkboxes. Under 'Authenticated Users', there are two empty checkboxes. A row for 'testuser' has a checked checkbox and a trash can icon. Below the table are 'Add User' and 'Add Group' buttons. At the bottom are 'Save' and 'Apply' buttons.

localhost:8080

Jenkins

Build History All

Build Queue No builds in the queue.

Build Executor Status 0/2

Icon: S M L

| S | W  | Name ↓            | Last Success   | Last Failure |
|---|----|-------------------|----------------|--------------|
| ✓ | ☀️ | My-First-Pipeline | 1 hr 12 min #2 | N/A          |

testuser

Theme Light

My Views Account Appearance Preferences Security Experiments Credentials

REST API Jenkins 2.528.2

localhost:8080/user/testuser

This screenshot shows the Jenkins dashboard. On the left, there's a 'Build History' section with tabs for 'All', 'Build Queue' (empty), and 'Build Executor Status' (0/2). In the center, a table shows a single pipeline named 'My-First-Pipeline' with a success status of '1 hr 12 min #2'. At the bottom, there are icons for 'S' (Success), 'M' (Merge), and 'L' (Last). On the right, a sidebar for the user 'testuser' is open, showing options like 'Theme' (set to 'Light'), 'My Views', 'Account', 'Appearance', 'Preferences', 'Security', 'Experiments', and 'Credentials'. The bottom of the screen shows the URL 'localhost:8080/user/testuser' and the Jenkins version 'Jenkins 2.528.2'.

i logged in testuser which have only view/read permission only.

The screenshot shows the Jenkins dashboard for the user 'testuser'. The dashboard includes a sidebar with options like 'Theme' (set to 'Light'), 'My Views', 'Account', 'Appearance', 'Preferences', 'Security', 'Experiments', and 'Credentials'. The main area displays a table with one row:

| S | W | Name ↓            | Last Success   | Last Failure |
|---|---|-------------------|----------------|--------------|
|   |   | My-First-Pipeline | 1 hr 12 min #2 | N/A          |

Below the table, there are buttons for 'Icon: S M L' and a 'Build Queue' section stating 'No builds in the queue.' A 'Build Executor Status' section shows '0/2' available executors. The URL in the address bar is 'localhost:8080/user/testuser'.

The screenshot shows the Jenkins job page for 'My-First-Pipeline'. The top navigation bar includes links for 'Status', 'Changes', and 'Stages'. The main content area displays the build history:

- Last build (#2), 1 hr 12 min ago
- Last stable build (#2), 1 hr 12 min ago
- Last successful build (#2), 1 hr 12 min ago
- Last completed build (#2), 1 hr 12 min ago

Below the history, there is a 'Filter' input field and a list of builds from today: '#2 4:55 PM' and '#1 4:51 PM'. The URL in the address bar is 'localhost:8080/job/My-First-Pipeline/'.

localhost:8080

RT at a glance Roundcube Webmail... lifeline ChatGPT DeepSeek - Into the... Master AWS Course... WhatsApp GUVI Classify Master DevOps Cou... >

# Jenkins

Build History All

| S | W  | Name ↓            | Last Success   | Last Failure | Last Duration |
|---|----|-------------------|----------------|--------------|---------------|
| ✓ | ☀️ | My-First-Pipeline | 1 hr 13 min #2 | N/A          | 1.8 sec       |

Build Queue: No builds in the queue.

Build Executor Status: 0/2

Icon: S M L

REST API Jenkins 2.528.2

