

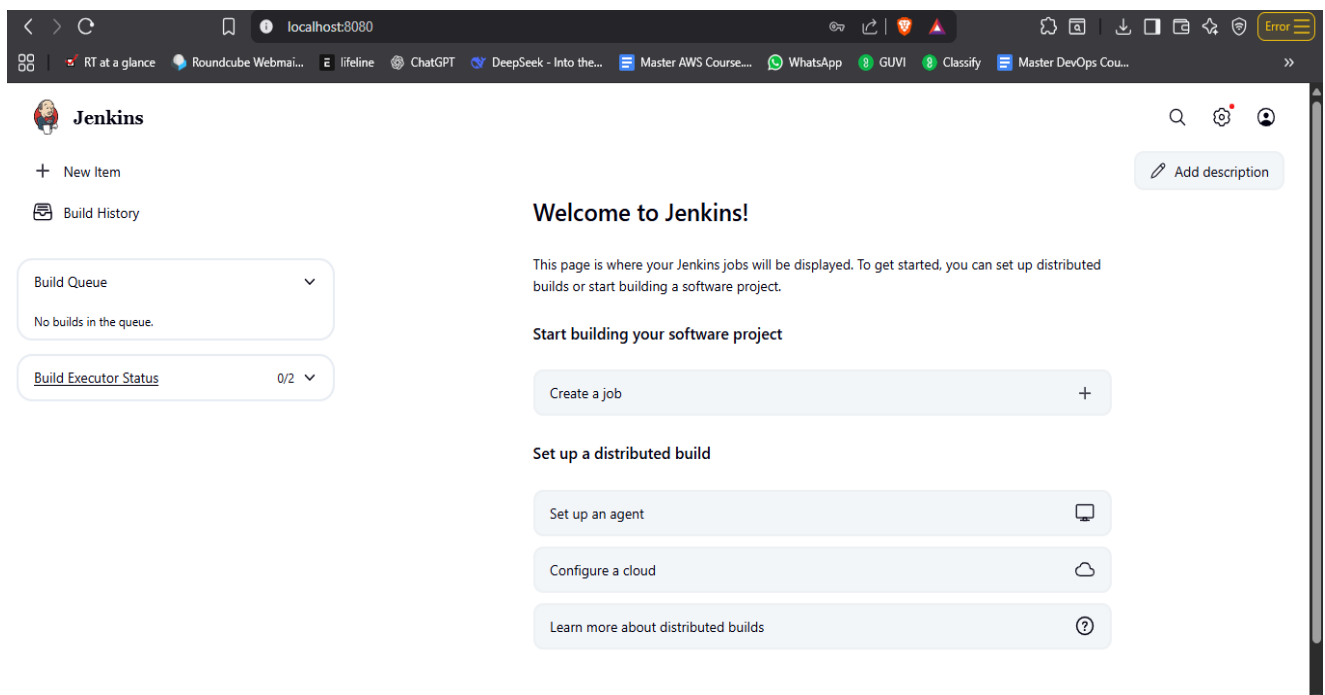
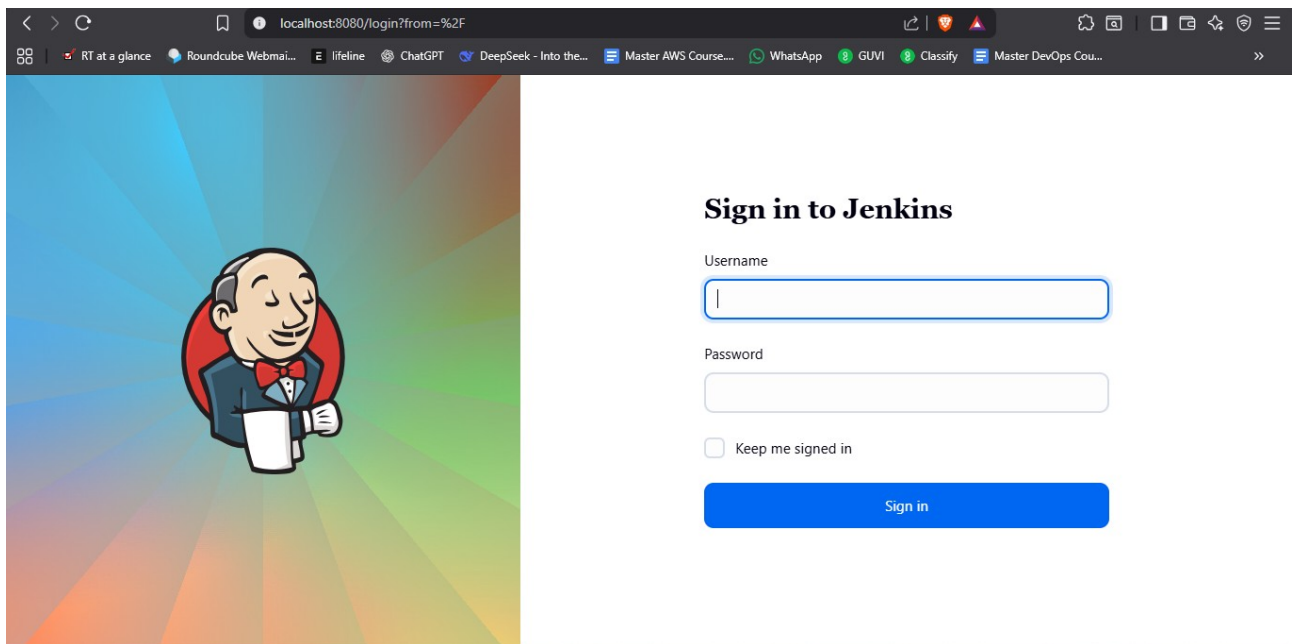
# Jenkins Task

## Task Description:

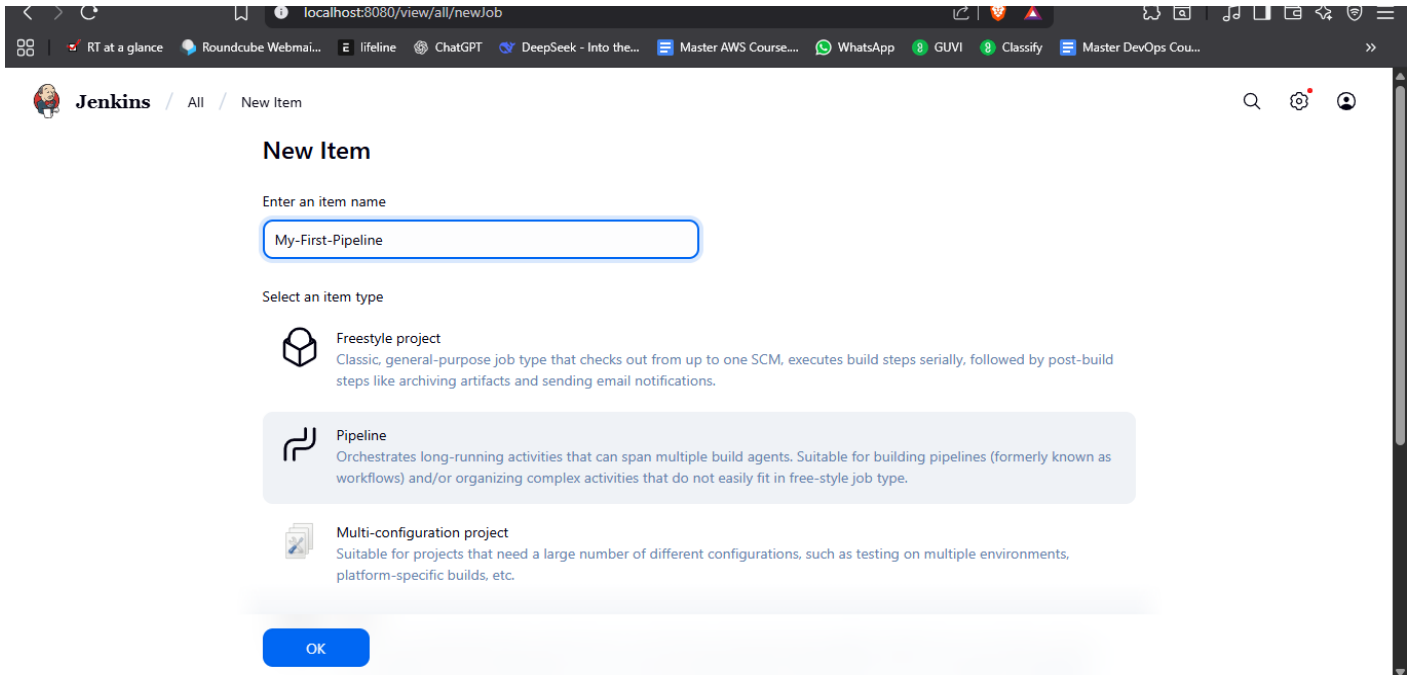
Launch jenkins and explore creating projects and users.

## 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.



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



The screenshot shows the Jenkins 'New Item' configuration page. The browser address bar indicates the URL is localhost:8080/view/all/newJob. The page title is 'Jenkins / All / New Item'. Below the title, there is a section 'New Item' with a prompt 'Enter an item name' and a text input field containing 'My-First-Pipeline'. Below this is a section 'Select an item type' with three options: 'Freestyle project' (described as a classic, general-purpose job type), 'Pipeline' (described as orchestrating long-running activities), and 'Multi-configuration project' (described as suitable for projects needing many configurations). The 'Pipeline' option is highlighted with a blue border. At the bottom, there is a blue 'OK' button.

localhost:8080/view/all/newJob




Jenkins / All / New Item

### New Item

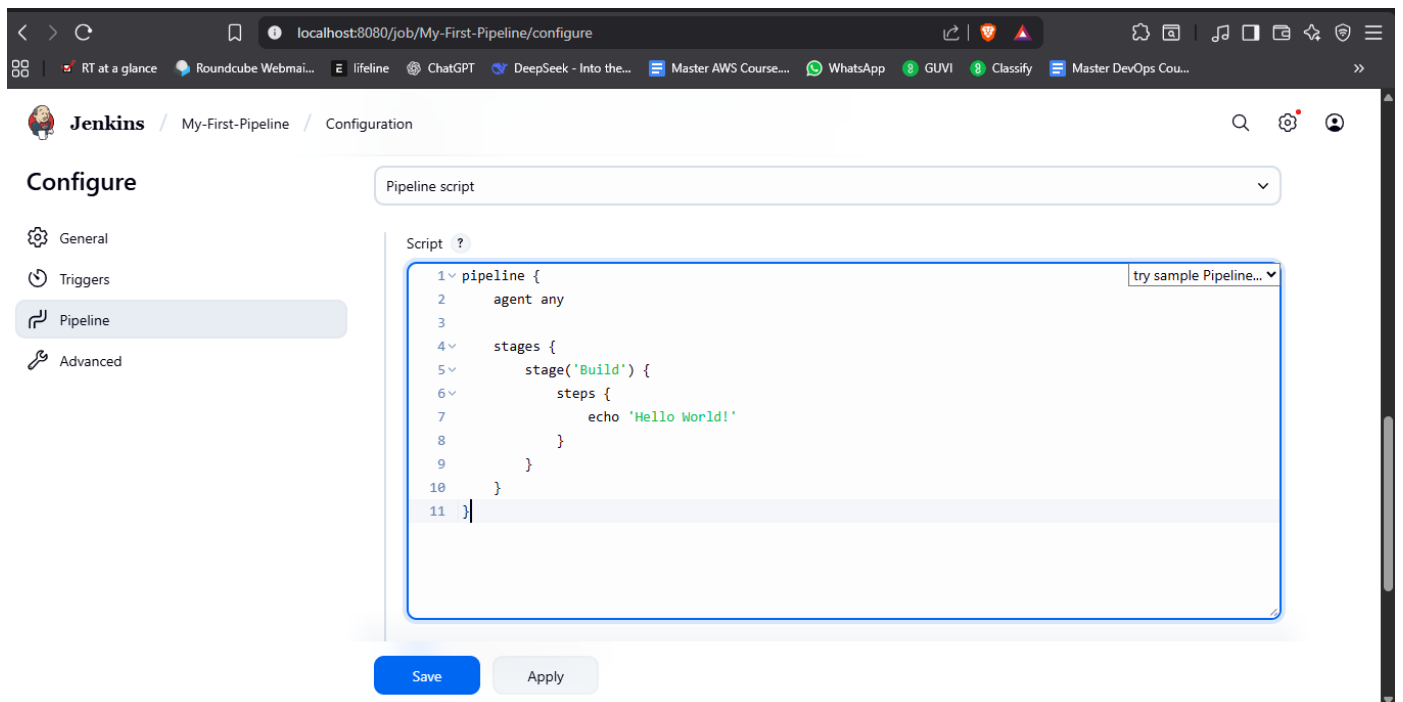
Enter an item name

My-First-Pipeline

Select an item type

-  **Freestyle project**  
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.
-  **Pipeline**  
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
-  **Multi-configuration project**  
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

OK



The screenshot shows the Jenkins 'Configure' page for the 'My-First-Pipeline' job. The browser address bar indicates the URL is localhost:8080/job/My-First-Pipeline/configure. The page title is 'Jenkins / My-First-Pipeline / Configuration'. On the left, there is a sidebar with 'Configure' and four tabs: 'General', 'Triggers', 'Pipeline', and 'Advanced'. The 'Pipeline' tab is selected. The main content area shows a 'Pipeline script' dropdown menu. Below it, there is a 'Script' section with a text area containing a Jenkins pipeline script. The script defines a pipeline with an 'any' agent and a 'Build' stage with an 'echo' step. At the bottom, there are 'Save' and 'Apply' buttons.

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

Jenkins / My-First-Pipeline / Configuration

### Configure

Pipeline script

Script ?

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

try sample Pipeline...

Save Apply

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

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Jenkins / My-First-Pipeline

Status

Changes

Build Now

Configure

Delete Pipeline

Stages

Rename

Pipeline Syntax

# My-First-Pipeline

## Permalinks

Add description

Builds

Today

#1 4:51 PM

REST APIJenkins 2.516.1

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

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Jenkins / My-First-Pipeline

Status

Changes

Build Now

Configure

Delete Pipeline

Stages

Rename

Pipeline Syntax

✓ My-First-Pipeline

Add description

## 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

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

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Jenkins / My-First-Pipeline / #1

SearchSettingsUser

Status

Changes

Console Output

Edit Build Information

Delete build '#1'

Timings

Pipeline Overview

Restart from Stage

Replay

Pipeline Steps

Workspaces

DownloadCopyView as plain text

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

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Search

1.7 kbit1.9 kbit

ENG IN

04:5316-11-2025

Jenkins

SearchSettingsUser

+ New Item

Build History

Build Queue

No builds in the queue.

Build Executor Status

0/2

All+

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

Icon: S M L

Add description

REST APIJenkins 2.516.1

Search

59 kbit4.4 Mbit

ENG IN

04:5416-11-2025

localhost:8080/view/all/builds

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Jenkins / All / Build History

+ New Item

Build History

Build Queue

No builds in the queue.

Build Executor Status

0/2

Build History of Jenkins

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

Icon: S M L

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19 kbit14 kbitENG IN04:5516-11-2025

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

localhost:8080/manage/

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Jenkins / Manage Jenkins

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

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

localhost:8080/manage/securityRealm/

System Log

Load Statistics

2.6 kbit3.0 kbitENG IN05:2016-11-2025

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

## Plugins

- Updates
- Available plugins
- Installed plugins
- Advanced settings
- Download progress

role

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
<a href="#">Role-based Authorization Strategy</a> 840.v206ff7f7312e Enables user authorization using a Role-Based strategy. Roles can be defined globally or for particular jobs or nodes selected by regular expressions. <a href="#">Report an issue with this plugin</a>	100	<input checked="" type="checkbox"/>

Changes will take effect when you restart Jenkins

Restart Once No Jobs Are Running

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

- Credentials  
Configure credentials

- Credential Providers  
Configure the credential providers and types

### 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/

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Jenkins

Manage Jenkins

SearchSettingsUser

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

Manage and Assign Roles

Handle permissions by creating roles and assigning them to users/groups

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/

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Manage Jenkins

Manage and Assign Roles

Manage Roles

SearchSettingsUser

Manage Roles

Assign Roles

Permission Templates

Role Strategy Macros

Manage Roles

Global roles

	Overall	Credentials	Agent	Job	Run	View							
Role	Administer	Read	Create	Delete	Discover	Move	Read	Workspace	Delete	Replay	Update	Configure	Create
admin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Role to add

Save

Apply



localhost:8080/manage/role-strategy/

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Jenkins

Manage JenkinsManage and Assign RolesManage Roles

Manage Roles

Assign Roles

Permission Templates

Role Strategy Macros

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

Role to add

temp user

Add

SaveApply

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

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Jenkins

Manage JenkinsManage and Assign RolesAssign Roles

Manage Roles

Assign Roles

Permission Templates

Role Strategy Macros

Assign Roles

Global roles

User/Group	admin	temp user
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 UserAdd Group

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

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Jenkins

Manage JenkinsManage and Assign RolesAssign Roles

Manage RolesAssign RolesPermission TemplatesRole Strategy Macros

Item roles

User/Group

Anonymous

Authenticated Users

testuser

new joiner

☐

☐

☒

Add User

Add Group

Agent roles

Save

Apply

localhost:8080

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Jenkins

Build History

Build Queue

No builds in the queue.

Build Executor Status

0/2

All

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

Icon: S M L

testuser

ThemeLight

My Views

Account

Appearance

Preferences

Security

Experiments

Credentials

localhost:8080/user/testuser

REST APIJenkins 2.528.2

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

Build Queue

No builds in the queue.

Build Executor Status

0/2

All

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

Icon: S M L

testuser

ThemeLight

My Views

Account

Appearance

Preferences

Security

Experiments

Credentials

localhost:8080/user/testuserREST APIJenkins 2.528.2

My-First-Pipeline

Status

Changes

Stages

Builds

Filter

Today

✓ #2 4:55 PM

✓ #1 4:51 PM

My-First-Pipeline

Permalinks

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

