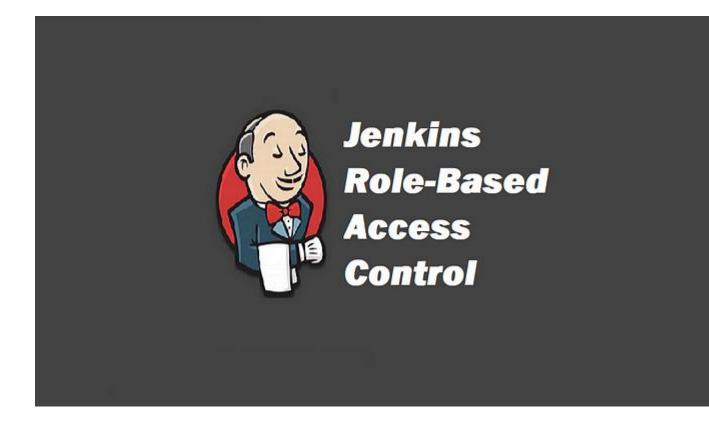
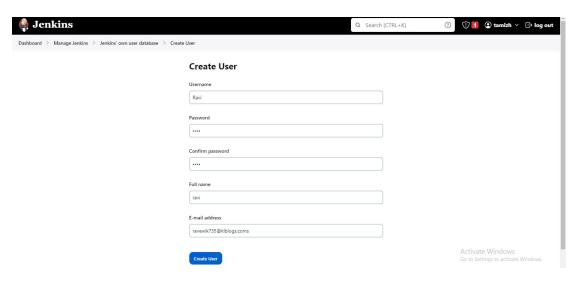
## How To Manage Users and Roles in Jenkins

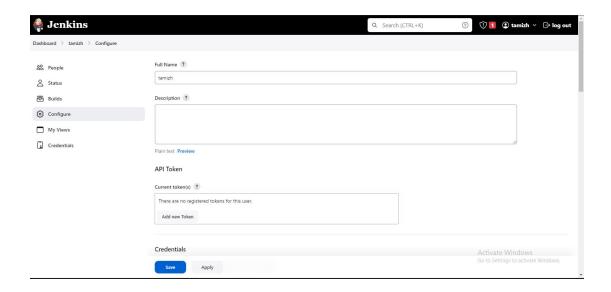


By default, when you create a user in Jenkins, it can access almost everything. In this guide, we will cover how you can create fine-grained roles for proper access control to Jenkins Server. To manage users and roles, you need to have the necessary administrative privileges. Here are the steps to manage users and roles in Jenkins:

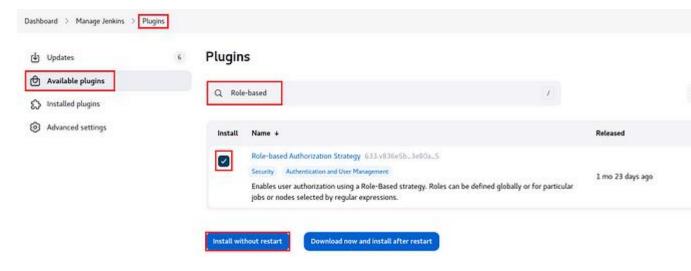
- 1. Access Jenkins: open your web browser and navigate to the Jenkins login page <a href="http://18.209.29.46:8080">http://18.209.29.46:8080</a>
- 2. Log in: enter your username and password to log in to Jenkins with administrative privileges.
- 3. Create new user: navigate to Jenkins
   Dashboard → Manage Jenkins → Users → Create
   User. Enter the user name, password, full name and email-address and then click Create User button.



4. Configure users: you may see the user's name in the upper right corner of Jenkins whenever you log in. Click **Configure** on the user's drop-down menu. On the configuration page, you can update the description, add new API tokens, password, terminal sessions and define time zones.



5. Download and install Role-based Authorization Strategy plugin: goto Manage Jenkins → Plugins → Available plugins and search for Role in the search box and in the dropdown list, select Role-based Authentication Strategy plugin, proceed by clicking on Install without restart

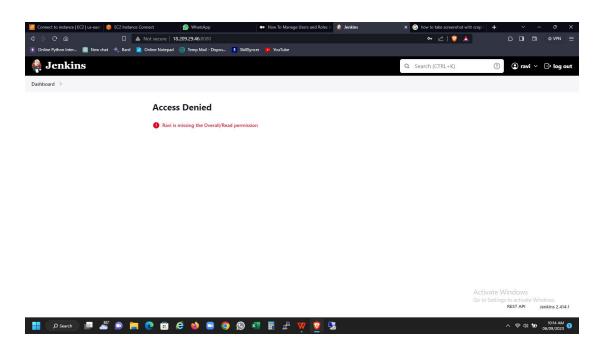


change authorization to Role-based strategy: After successful installation of plugin, Go to Manage
 Jenkins → Security and select the Role-Based

## **Strategy** under the **Authorization** section, click on **Apply** and **Save**



NOTE: 'Logged-in users can do anything' option would already be selected before selecting Role-Based Strategy.



7. Creating roles and granting privileges to role: go to **Manage**Jenkins → Manage and Assign Roles

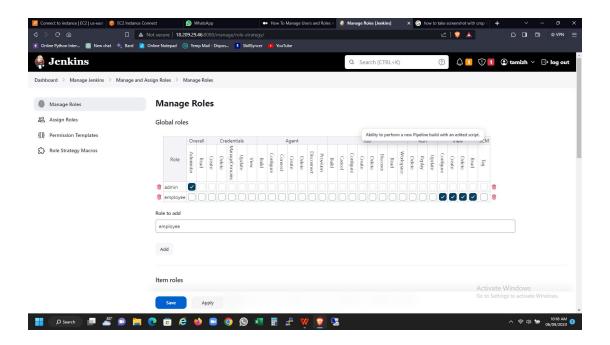
There are three options:

- 1. Manage Roles
- 2. Assign Roles and
- 3. Role Strategy Macros

Click on the manage role, you can see that there is only one role admin, but three sessions:

- 1. Global roles
- 2. Item roles
- 3. Agent roles

Global roles  $\rightarrow$  provide authorization and access to the global level. Let's create **employee** role and assign access like read, view, etc.



Item roles → provides roles specific to a project. For a particular project, you can assign permissions like build, create, delete, configure. Let's create **developer** role and add pattern like **dev.**\* ie. project name starting from dev.

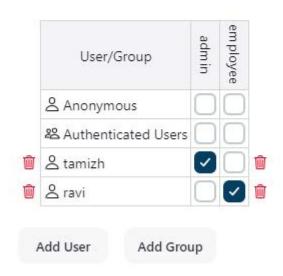
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Role	Pattern	Create	Delete	ManageDomains	Update	View	Build	Cancel	Configure	Create	Delete	Discover	Move	Read	Workspace	Delete	Replay	Update	Configure	Create	Delete	Read	Tag	
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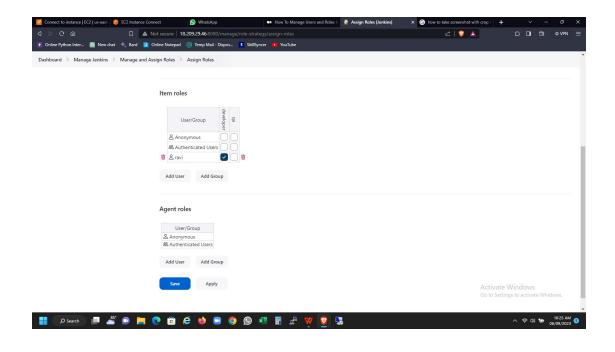
8. Assigning role to users: go to **Manage**Jenkins → Manage and Assign Roles → Assign Roles

Global roles  $\rightarrow$  add Tamizh and Ravi user to the global roles and assign the **employee** role to both users.

## **Assign Roles**

## Global roles

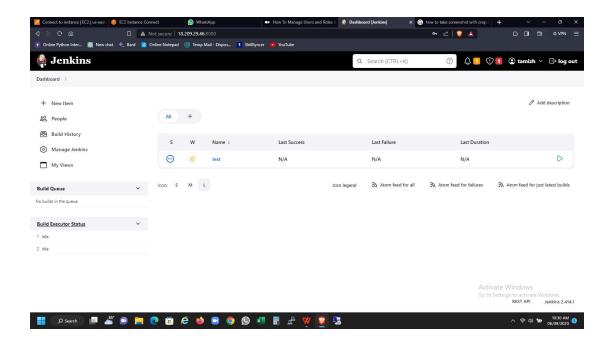




9. Create different projects to test roles: Let's create 2 projects and check the access according to the users. Go to **Jenkins** 

**Dashboard**  $\rightarrow$  **New Item**  $\rightarrow$  Create freestyle project called devproj1 and testproj1.

Login as user with assigned role. Only projects granted should be visible.



For any new user created without being assigned a role, access denied message should be shown.

