

Create and Manage Users in Jenkins

Generally, in a large organization, there are multiple separate teams to run and manage jobs in Jenkins. But managing this crowd of users and assigning roles to them is too difficult.

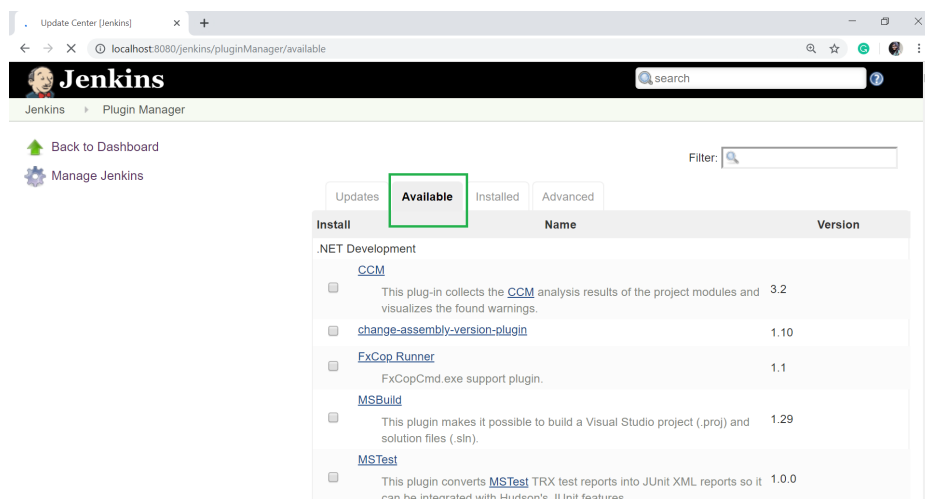
By default, when you create a user in Jenkins, it can access almost everything. In this, you can create multiple users but can only assign the same global roles and privileges to them. This is not ideal, especially for large organizations.

To enable you to assign different roles and privileges to different users in Jenkins, you should have to install the **Role Strategy Plugin**.

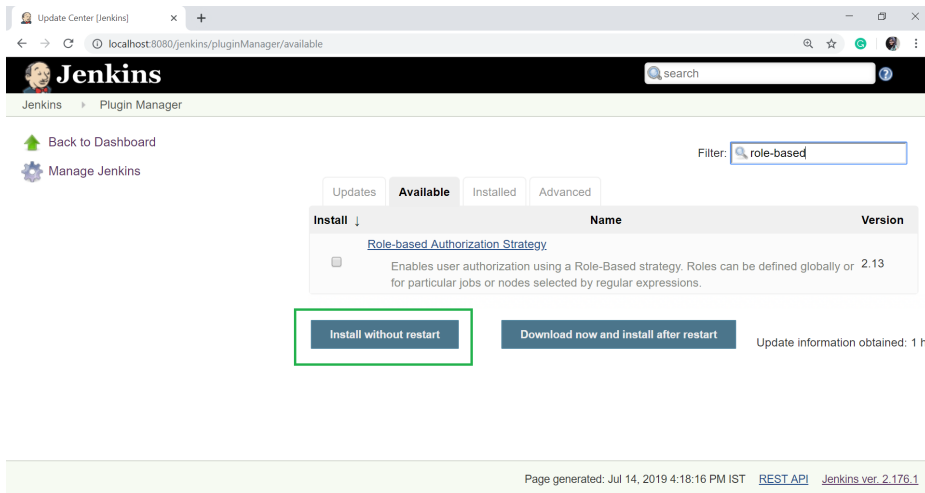
Install Role-based Authorization Strategy Plugin

Step 1: Open your Jenkins dashboard by visiting <http://localhost:8080/jenkins>

Steps 2: Click on 'Manage Jenkins' and select the 'Available' tab.

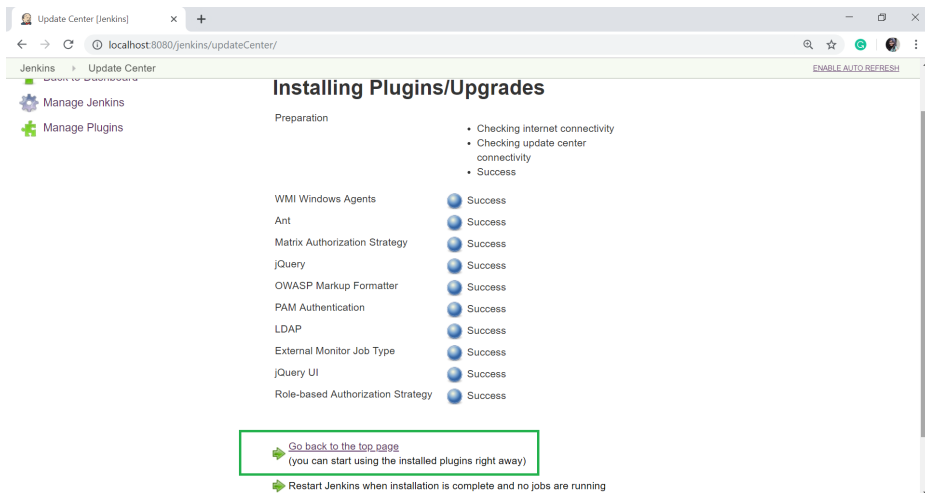


Step 3: On the filter option, type "role-based" and press Enter.



The screenshot shows the Jenkins Update Center interface. The 'Available' tab is selected, and the search filter is set to 'role-based'. The 'Role-based Authorization Strategy' plugin is listed with version 2.13. The 'Install without restart' button is highlighted with a green box. The page footer indicates it was generated on Jul 14, 2019, at 4:18:16 PM IST, with REST API and Jenkins ver. 2.176.1 links.

Step 4: Now, select the plugin and click on '**Install without restart**' button.

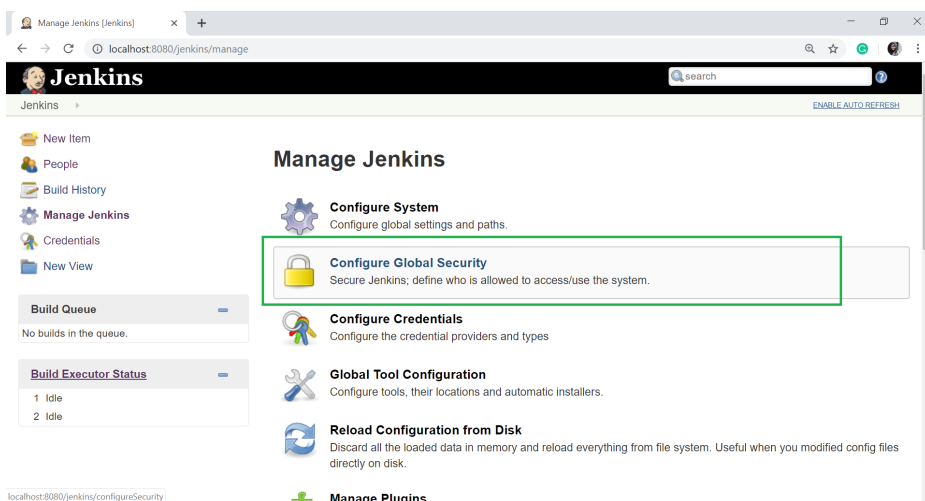


The screenshot shows the 'Installing Plugins/Upgrades' progress page. The 'Go back to the top page' link is highlighted with a green box. The page lists various plugins and their installation status, all marked as 'Success'. The 'Role-based Authorization Strategy' plugin is also listed as 'Success'.

Step 5: Click on '**Go back to the top page**'.

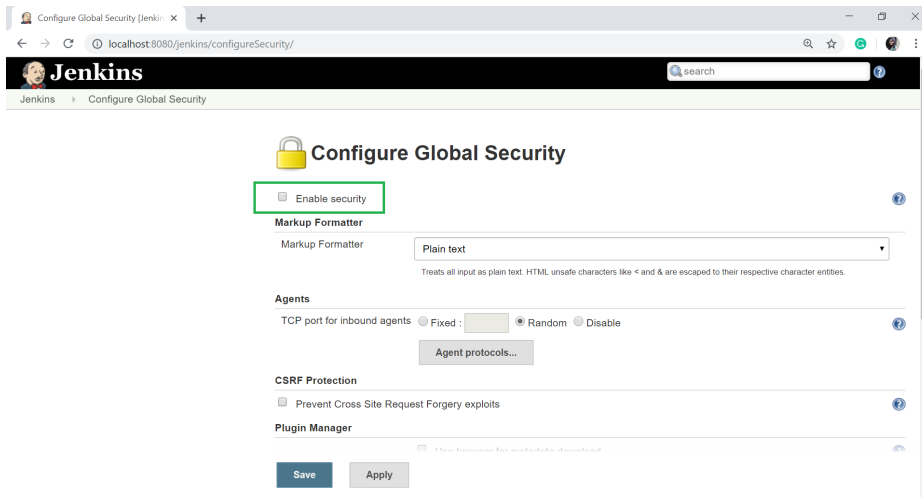
Enable Role-Based Strategy on Jenkins

Step 1: After Plugin installation, go to the 'Manage Jenkins' and then click on '**Configure Global Security**'.



The screenshot shows the 'Manage Jenkins' page. The 'Configure Global Security' option is highlighted with a green box. The page lists various configuration options: Configure System, Configure Global Security, Configure Credentials, Global Tool Configuration, Reload Configuration from Disk, and Manage Plugins. The 'Build Queue' and 'Build Executor Status' sections are also visible on the left sidebar.

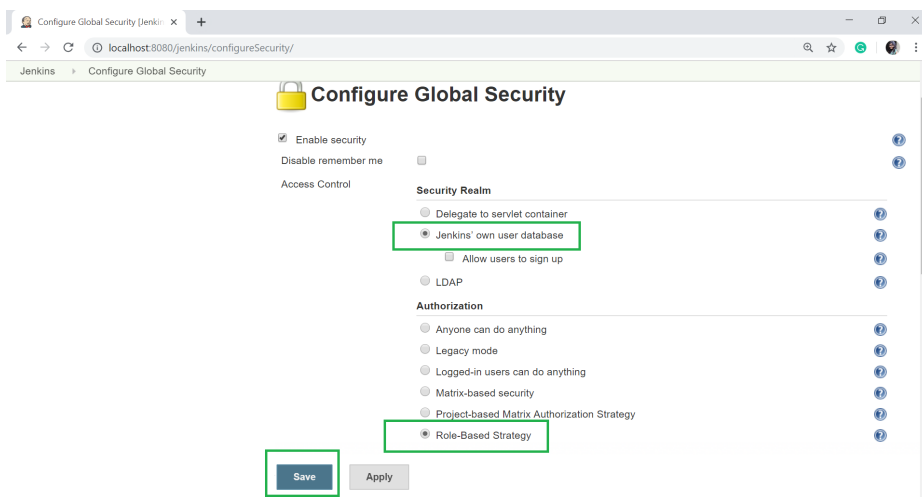
When you click the Configure Global Security option then you will see the following page:



Check on **Enable security** option.

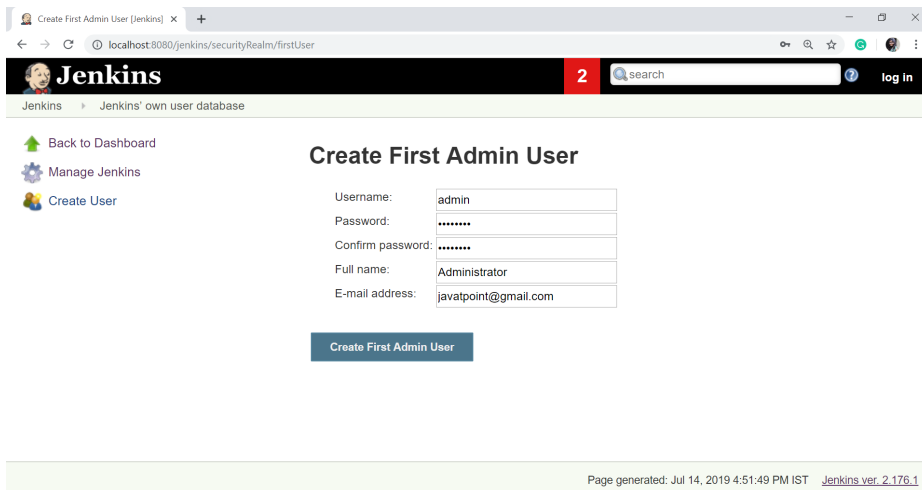
Step 2: On the Security Realm section, select '**jenkins' own user database**'.

- On Authorization section, select '**Role-Based Strategy**'.

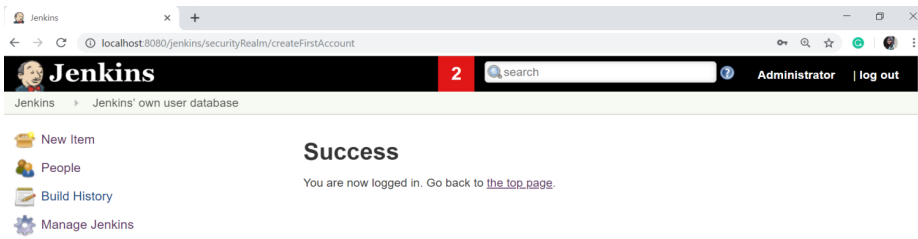


Click on **Save**.

Step 3: You will be prompted to add your first user. Here, we are setting up an admin user for the system.

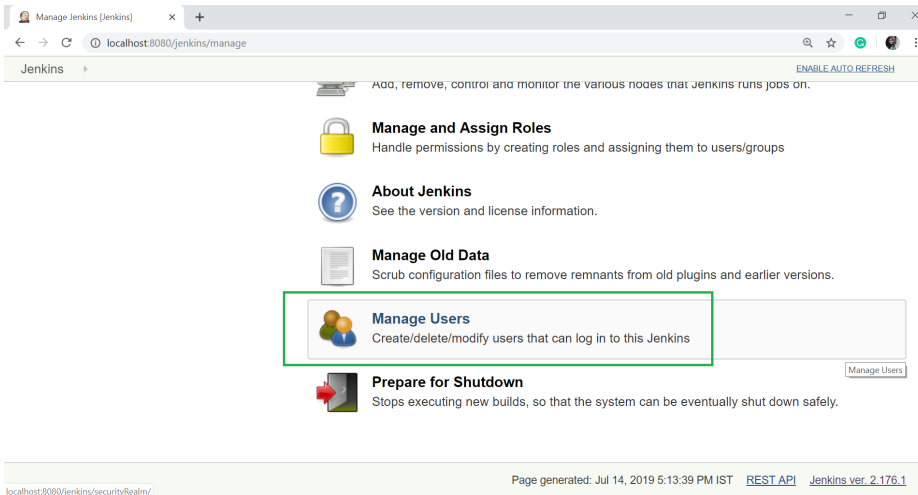


Click on **Create First Admin User**.



Creating User on Jenkins

Step 1: Now it's time to setup your users in the system. When you go to manage Jenkins and scroll down, you will see the '**Manage Users**' option. Click on this option.



Step 2: Just Like, you defined the admin user, and start creating other users for the system. Let's create another user:

- To create another user click on 'Create User' option on the left hand side of the Manage Users page.

Users

These users can log into Jenkins. This is a sub set of [this list](#), which also contains auto-created users who really just made some commits on some projects and have no direct Jenkins access.

User ID	Name
admin	Administrator

Back to Dashboard
Manage Jenkins
Create User

Create User

Username: Nikita
Password:
Confirm password:
Full name: Nikita
E-mail address: nikita@gmail.com

Create User

- Click on **Create User** button.

Managing User Roles on Jenkins

Step 1:

- Click on **Manage Jenkins**.
- Select **Manage and Assign Roles**. Note that, Manage and Assign Role will only be visible if you have installed the Role strategy plugin.

Manage Jenkins

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

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

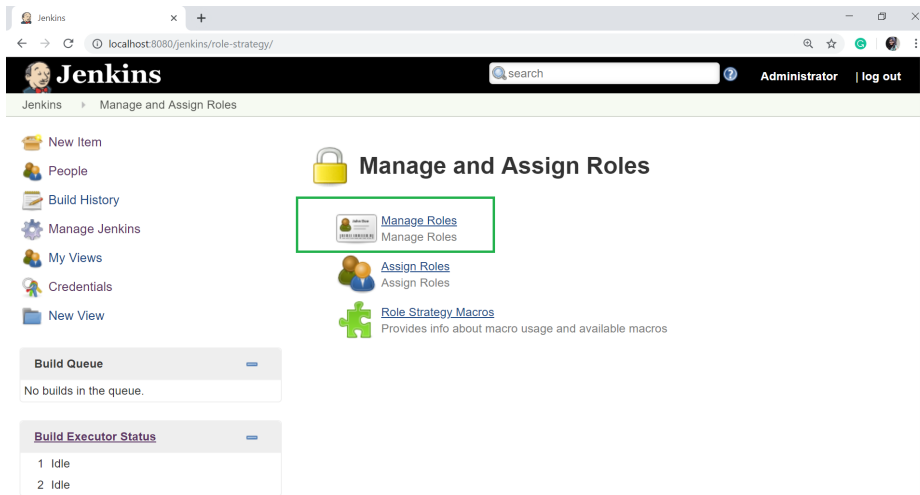
About Jenkins
See the version and license information.

Manage Old Data
Scrub configuration files to remove remnants from old plugins and earlier versions.

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

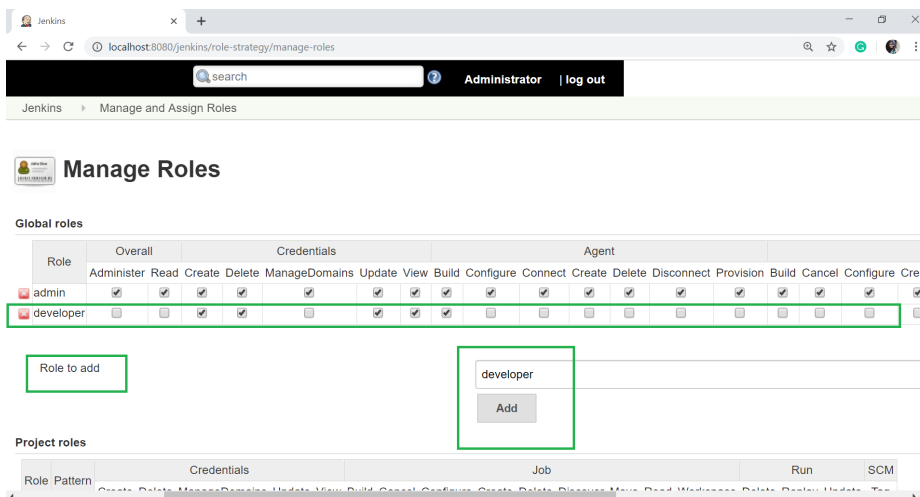
Prepare for Shutdown
Stops executing new builds, so that the system can be eventually shut down safely.

Step 2: Click on **Manage Roles** option to add new roles.



Step 2: To create a new role called "developer".

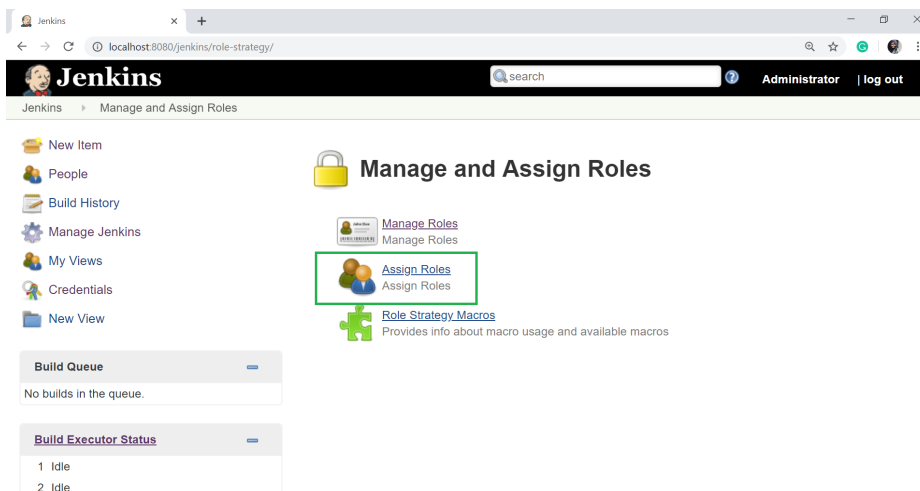
- Type "developer" in the **Role to add** option.
- Click on **Add** to create a new role.
- Now, select the appropriate permissions that you want to assign to the developer role.
- Then Click on **Save** button.



Assigning User Roles on Jenkins

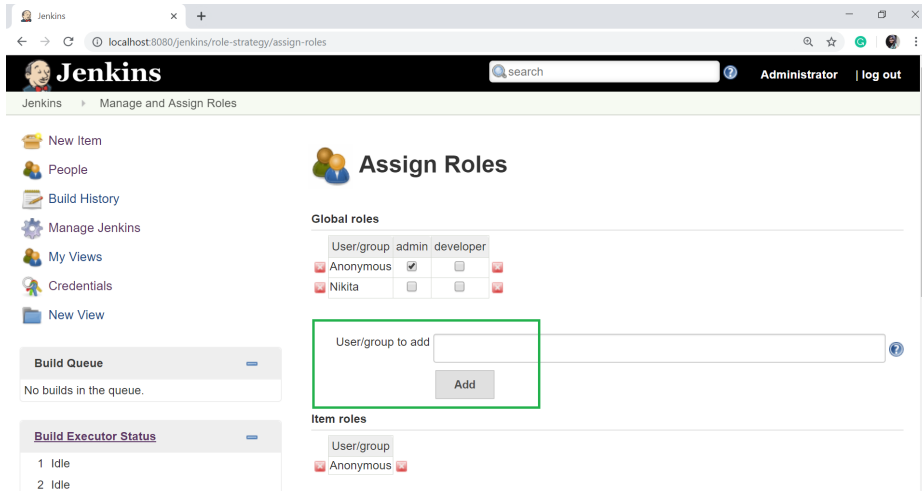
Step 1: Now, you have created roles, let's assign them to specific users.

- Click on **Manage Jenkins**.
- Then select **Manage and Assign Roles**.
- Click on **Assign Roles**.

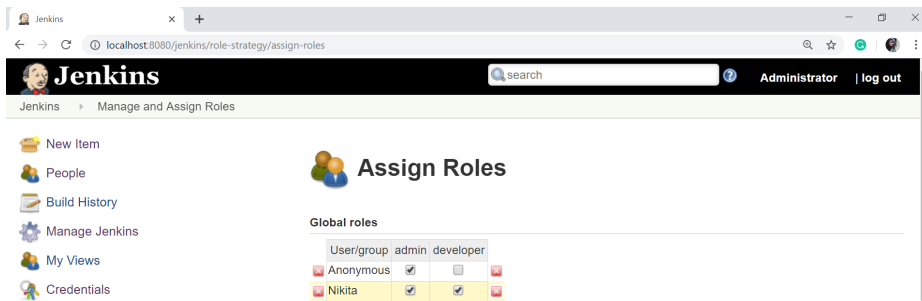


Step 2: Let's add new role "developer" to user.

- Add the User name on **User/group to add** option.
- Click on **Add** button.



- Select "developer" role check box.



- You can assign any role to any user as per your requirement.
- Then click on **Save**.

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