



How to enable Role-Based Strategy Plugin

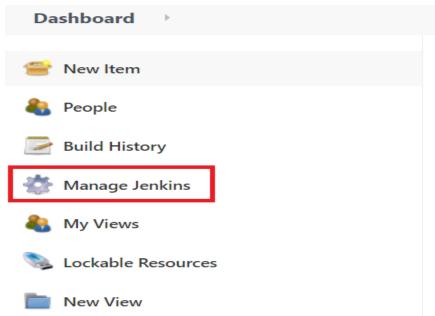
The Role-Based Strategy plugin is used when access rights and privileges need to be assigned to different users based on their role in Jenkins. For example, developers should only have access to development jobs, whereas testers should have access to testing jobs. This document can be divided into the following four sections:

- 1. Installing Role-Based Authorization Plugin
- 2. Creating users
- 3. Managing and assigning roles to users
- 4. Creating jobs and verifying roles

Installing Role-Based Authorization Plug-in

First, we need to have a Role-Based Authorization Plug-in installed. Now, let's take a look at the various steps involved.

1. Select the **Manage Jenkins** option.



2. Then, select the Manage Plugins option.

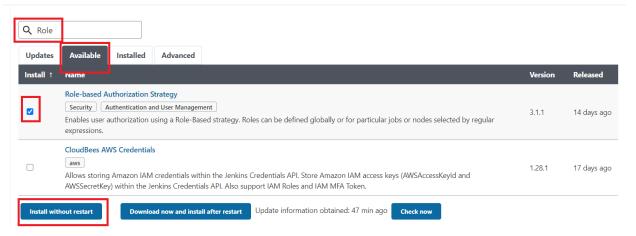




System Configuration



- 3. Click on the **Available** tab.
- 4. Next, search for the **Role-Based Authorization Strategy** option.
- 5. Select it and click on the **Install without restart** option as shown in the screenshot given below.



6. Once it is installed, go back to the Jenkins Dashboard.

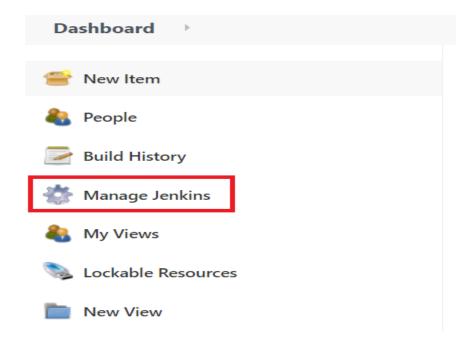
Creating users

Now, we will create some users before assigning them to various roles. Let's take a look at the different steps involved here.

1. Select **the Manage Jenkins** option as shown in the screenshot attached below.

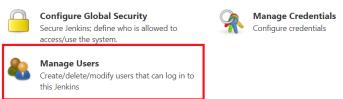






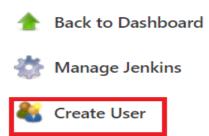
2. Then, click on Manage Users.







3. Click on the Create User option from the left side of the window.



- 4. The first user that we are creating is **Developer.**
- 5. So, provide all the details and then click on Create User.





Username:	Developer
Password:	•••••
Confirm password	d:
Full name:	Developer_1
E-mail address:	Developer@gmail.com

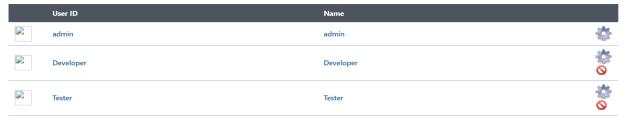
6. Similarly, create one more user named **Tester**.



7. Next, you can see that we have three users created as shown in the screenshot attached below.

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.



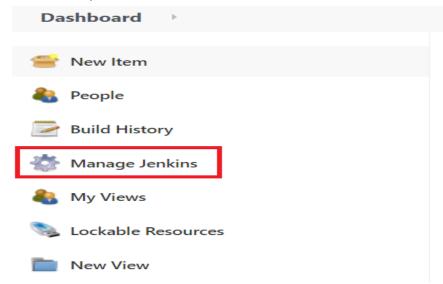




Managing and assigning roles to users

Now, we will create different roles and assign our users to them. You will learn about the various steps involved here.

1. Now, navigate to the Jenkins dashboard and click on the **Manage Jenkins** option as shown below.



2. Next, select the **Configure Global Security** option.



- 3. Then, in Authorization, select the Role-Based Strategy option.
- 4. Click on Apply and then Save.





Authorization
Anyone can do anything
Legacy mode
Logged-in users can do anything
Matrix-based security
O Project-based Matrix Authorization Strategy
 Role-Based Strategy
Markup Formatter
NA-ulum F F
Save

5. Now, navigate to the **Manage Jenkins** page and select the **Manage And Assign Roles** option.



6. Select the Manage Roles option from here.

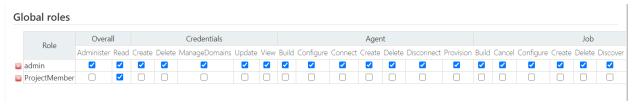


7. First, we need to add Global roles.

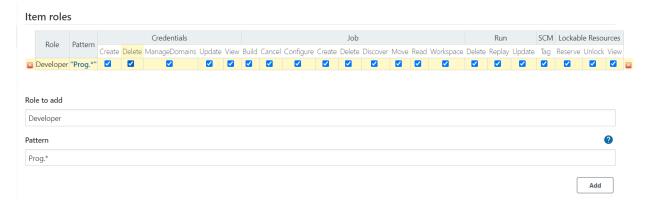




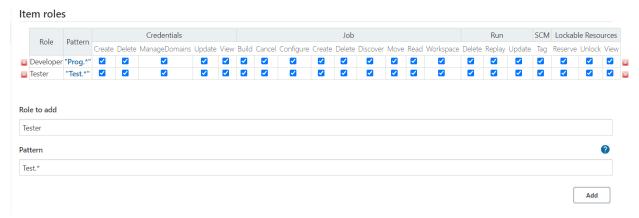
- 8. Enter the role to add. Here, we are creating one more role named **ProjectMember**. Click on the **Add** option.
- 9. Next, select the access privileges that you want to provide for the role by checking the correct boxes.



- 10. Similarly, more roles can be added.
- 11. Now, we need to provide Project roles.
- 12. Here, we are creating one role named **Developer** with the pattern '**Prog.*'** that is specified.
- 13. Now, check all the boxes for these roles as shown in the figure given below.



14. Similarly, we have created one more role named **Tester** with the pattern **'Test.*'**.







- 15. After that, click on **Apply** and then on **Save**.
- 16. Now, navigate to the **Manage Jenkins** page and select the **Manage** and Assign Roles option.
- 17. Select the **Assign Roles** option here.



Manage and Assign Roles





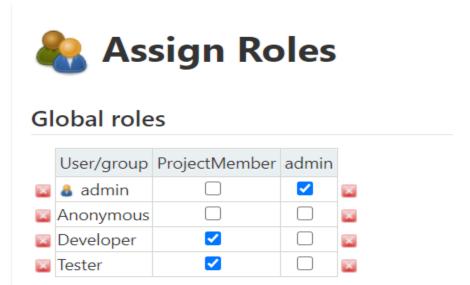
Role Strategy Macros

Provides info about macro usage and available macros

- 18. Now, we need to add the users in the **Global role** that we created earlier to assign them roles.
- 19. Enter the **user to add** and click on **Add** option. Here we are adding the user **Developer**.
- 20. Next, assign the user to the correct role as shown in the screenshot given below. Similarly, we can add other users.







- 21. Now, we need to add users in the **Item** roles.
- 22. Enter the **user to add** and then click on the **Add** option as shown below.
- 23. Now, assign them to the correct group as shown below.
- 24. Similarly, we can add other users here.

Item roles



25. Then, click on **Apply** and then **Save**.

Creating jobs and verifying roles

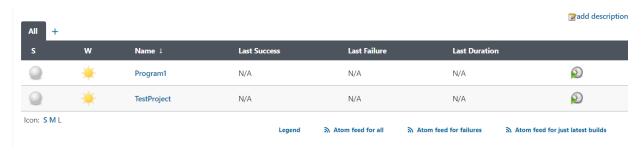
Now, let's create some jobs and check whether our roles are working as per the pattern.

Now, we will take a look at the steps involved here.

1. Create two jobs named **TestProject** and **Program1**.



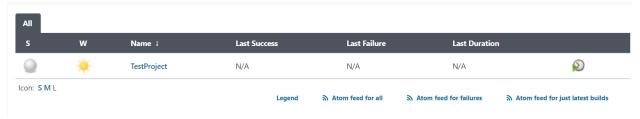




- 2. Now, log out and then log in as **Developer**.
- 3. You will notice that only the job **Program1** is visible to us, as we have specified that developers can access only the jobs starting with "**Prog.***"



- 4. Log out and log in as Tester.
- 5. This time you will only see the TestProject job, as we have specified that the tester can only view the job starting with "**Test.***"
- 6. The tester can only create and build jobs starting with **Test**.



7. Finally, click on **Build Now** to view the Console Output.





Console Output

Started by user **Tester_1**Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/TestProject
Finished: SUCCESS