

## JENKINS RBAC – ASSIGNING SPECIFIED JOBS TO JENKINS USERS

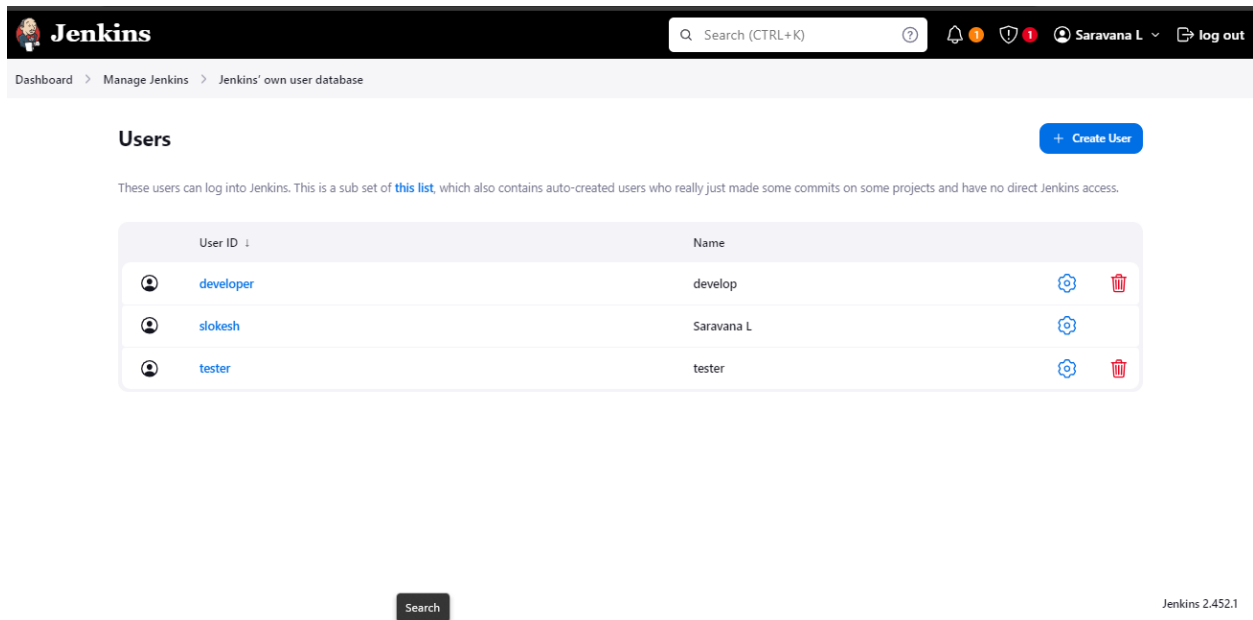
Setp1 – Create a VM Instance and Install Jenkins in it

Setp2 – Login to Jenkins Console and Install Plugin

- Manage Jenkins -> Plugins -> Available Plugins -> **Plugin: Role-based Authorization Strategy**

Setp3 – Create user:

- Dashboard-->Manage Jenkins-->Users-->Create User (developer & tester)



The screenshot shows the Jenkins 'Users' management page. At the top, there's a navigation bar with the Jenkins logo, a search bar, and user information. Below the navigation bar, the breadcrumb trail is 'Dashboard > Manage Jenkins > Jenkins' own user database'. The main heading is 'Users', followed by a '+ Create User' button. A note states: '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.' Below this is a table with three columns: 'User ID', 'Name', and actions. The table lists three users: 'developer', 'slokesh', and 'tester'. Each user has a settings icon and a delete icon. At the bottom, there's a 'Search' button and the version 'Jenkins 2.452.1'.

User ID	Name	Actions
developer	develop	Settings, Delete
slokesh	Saravana L	Settings, Delete
tester	tester	Settings, Delete

Step4 – Give authorization in security:

- Dashboard-->Manage Jenkins -->Security-->Authorization-->Role-Based Strategy-->Save

Step5 – Create jobs: dev-1, dev-2, test-1, test-2

Step6 – Create Permission Templates:

- Permission Template -> ADD -> Template Name (**dev**) -> OK -> GIVE ACCESS YOU WANT TO GRANT TO USER -> SAVE
- Permission Template -> ADD -> Template Name (**test**) -> OK -> GIVE ACCESS YOU WANT TO GRANT TO USER -> SAVE

**Permission Templates**

Templates allow to simplify role management when many item roles with identical permissions are required. Changing the template will automatically change the permissions of all roles that are using the template.

Name	In use	Credentials		Job				Run		View		SCM	Metrics												
		Create	Delete	Update	View	Build	Cancel	Configure	Create	Delete	Discover	Move	Read	Work space	Delete	Reply	Update	Configure	Create	Delete	Tag	HealthCheck	ThreadDump	View	
dev	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>
test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>

Add

Save Apply

Jenkins 2.452.1

## Step7 – Create Global Roles for User

- Dashboard-->Manage Jenkins-->Manage and Assign Roles: Manage Roles -> Global Roles ->Role to add(**dev-role**) ->add-->Overall(**read**)-->save
- Dashboard-->Manage Jenkins-->Manage and Assign Roles: Manage Roles -> Global Roles ->Role to add(**test-role**) ->add-->Overall(**read**)-->save

Search (CTRL+K)

Saravana L

log out

Dashboard
Manage Jenkins
Manage and Assign Roles
Manage Roles

Manage Roles
Assign Roles
Permission Templates
Role Strategy Macros

### Manage Roles

Global roles

Role	Overall	Credentials			Agent					Job					Run		View		SCM	Metrics												
	Administer	Read	Create	Delete	ManageDomains	Update	View	Build	Configure	Connect	Create	Delete	Disconnect	Provision	Build	Cancel	Configure	Create	Delete	Discover	Move	Workspace	Read	Reply	Update	Configure	Create	Delete	Tag	Read	HealthCheck	ThreadDump
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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
dev-role	<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 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"/>
test-role	<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 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

Add

Save

Apply

## Step8 – Create Item Roles for User

-->Manage and Assign Roles: Item roles -> Role to add -> **test-item-role** -> Pattern (jobs you want to Assign) -> **test-1|test-2** -> Permission Template (**dev**) ->Add ->SAVE

Search (CTRL+K)

Saravana L

log out

Dashboard
Manage Jenkins
Manage and Assign Roles
Manage Roles

Manage Roles
Assign Roles
Permission Templates
Role Strategy Macros

### Item roles

Role	Pattern	Template	Credentials			Job					Run		View		SCM	Metrics																
			Create	Delete	ManageDomains	Update	View	Build	Cancel	Configure	Create	Delete	Discover	Move	Workspace	Read	Reply	Update	Configure	Create	Delete	Tag	Read	HealthCheck	ThreadDump	View						
dev-item	/dev.*	dev	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Role to add

test-item-role

Pattern

test.\*

Permission Template

dev
None
test
dev

Save

Apply

NOTE:

- to assign particular jobs: job1|job2|job3 (eg: tes1|test2)
- to select jobs that have same tag line: job.\* (eg: dev.\*)

Setp9 – Assign Global Roles to Users:

- Assign Roles -> Global user -> Add User -> User ID (develop) -> Select role "dev-role" ->save
- Assign Roles -> Global user -> Add User -> User ID (tester) -> Select role "test-role" ->save

The screenshot shows the Jenkins 'Assign Roles' interface. On the left, there's a sidebar with 'Manage Roles' and 'Assign Roles' (selected). The main area is titled 'Assign Roles' and shows 'Global roles'. A table lists users and groups with checkboxes for 'admin', 'dev-role', and 'test-role'. The 'dev-role' checkbox is checked for 'develop', and the 'test-role' checkbox is checked for 'tester'. Below the table are 'Add User' and 'Add Group' buttons. At the bottom, there's a section for 'Item roles' with a 'Save' button.

User/Group	admin	dev-role	test-role
Anonymous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Authenticated Users	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Saravana L	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
develop	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
tester	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Step10 – Assign Item roles to User

- Assign Roles-->Item roles-->Add User-->User ID (develop)-->Select role "dev-item-role"-->save
- Assign Roles-->Item roles-->Add User-->User ID (tester)-->Select role "test-item-role"-->sav

Dashboard
>
Manage Jenkins
>
Manage and Assign Roles
>
Assign Roles

Manage Roles
Assign Roles
Permission Templates
Role Strategy Macros

Add User
Add Group

Item roles

User/Group	dev-item	test-item-role
Anonymous	<input type="checkbox"/>	<input type="checkbox"/>
Authenticated Users	<input type="checkbox"/>	<input type="checkbox"/>
develop	<input checked="" type="checkbox"/>	<input type="checkbox"/>
tester	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Add User
Add Group

Agent roles

User/Group
Anonymous
Authenticated Users

Save
Apply

## Output:

Jenkins

Search (CTRL+K)
tester
log out

Dashboard
>

Build History
Project Relationship
Check File Fingerprint
My Views

Build Queue
No builds in the queue.

Build Executor Status
1 Idle
2 Idle

All

S	W	Name ↓	Last Success	Last Failure	Last Duration
...	☀	test-1	N/A	N/A	N/A
...	☀	test-2	N/A	N/A	N/A

Small

Icon: S M L

REST API
Jenkins 2.452.1