# Jenkins

User and Roles Management

# 3. How to create Users, Manage & Assign Roles

## Topics:

- 1. How to create Users
- 2. How to Configure Users
- 3. How to create new roles
- 4. How to assign users to roles
- 5. How to control user access on projects

### Creating User

Login Jenkins ---> Manage Jenkins ---> Manage Users ----> create new user



Click on create user for creating new user

List of users so far existed in system

This is User Manage page



Jenkins

Jenkins' own user database



Back to Dashboard



Manage Jenkins



Create User



Username:

Password:

rajesh

After click on create user, this firm password:

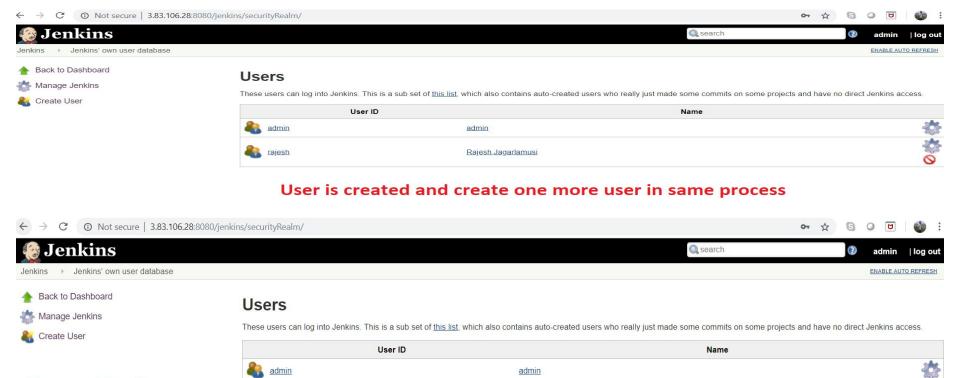
form will open. fill user details and click on create user

Rajesh Jagarlamusi

......

.....

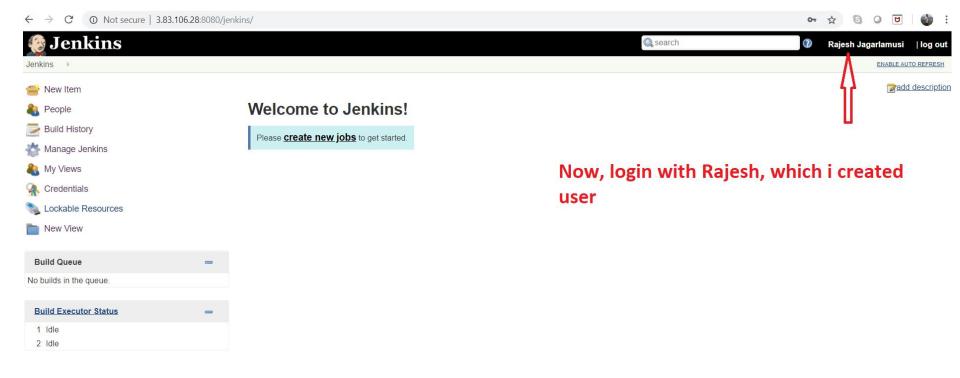
Create User



Rajesh Jagarlamusi

Rajesh Tester

logout from admin user and login with the user, which specifically rajeshtester you created

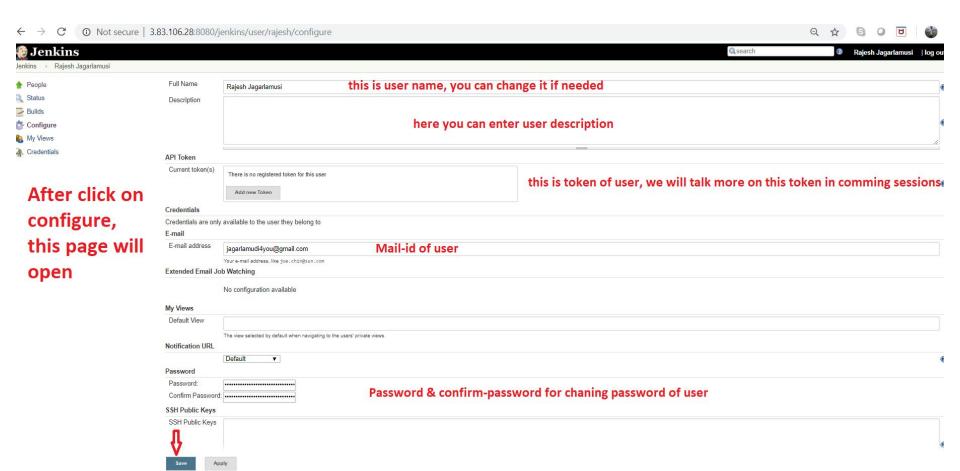


# Till now creating user and login with created user is complete

### **How to Configure User**

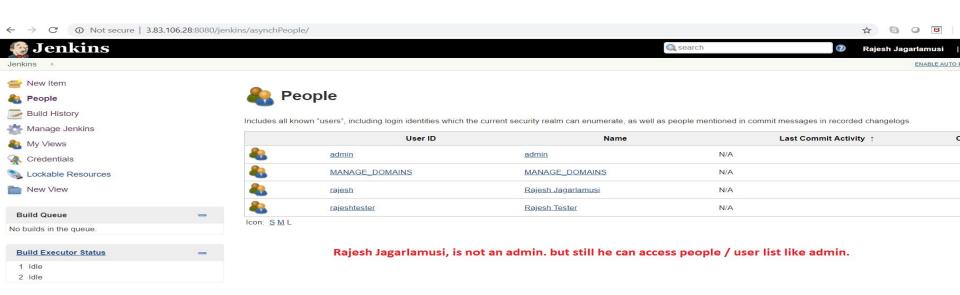
Login jenkins with user, which you want configure --> goto user name, which is on top right corner → click on down arrow → click on configure





Here, if you observe, user rajesh jagarlamusi is having all rights like admin. It's not encouraged in Real Time

In order to segregate we have roles concept to limit the access for particular services / actions



In Real time → Roles will be like Architect, Manager, Developer, Tester etc

### With the roles concept

- 1. we can limit access for particular developer to access particular project only in which he is working
- 2. We can limit access for particular project manager to access his projects only from group of projects
- 3. We can limit access for tester to access only testing applications only

Like this based on their roles & responsibilities in organization we will give access to projects

# Create and Manage User Roles

For using --- create and manager User Roles concept, Jenkins should have installed → Roles Strategy Plugin

Without roles Strategy Plugin installed, you can see "Manage Roles" after going to manage Jenkins

Go to your firefox browser → type "Jenkins Roles Strategy plugin"

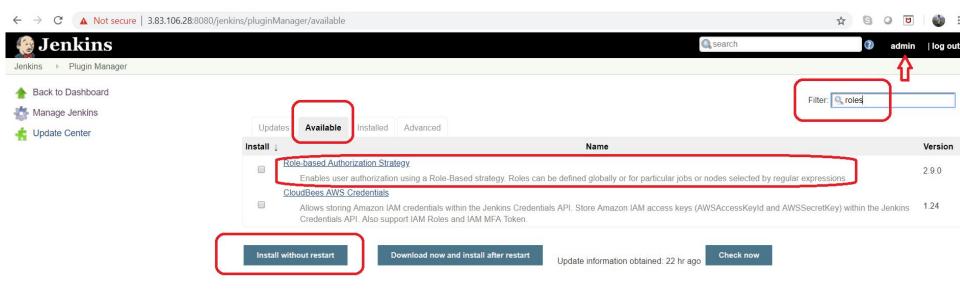
https://wiki.jenkins.io/display/JENKINS/Role+Strategy+Plugin#RoleStrategyPlugin-Version2.9.0(Aug27,2018)

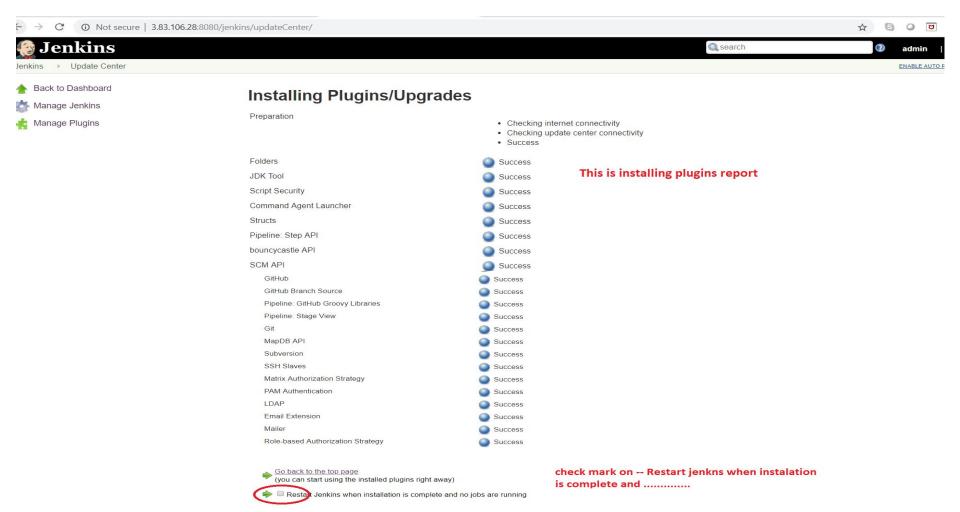
You can see the usage of roles from above URL for clear and better understanding

Go to plugins dir under .jenkins dir, you can see all installed plugins list there

#cd /root/.jenkins/plugins/

now goto web  $\rightarrow$  login jenkins as admin  $\rightarrow$  click on manage jenkins  $\rightarrow$  manage plugins  $\rightarrow$  select available tab  $\rightarrow$  type roles in filter box





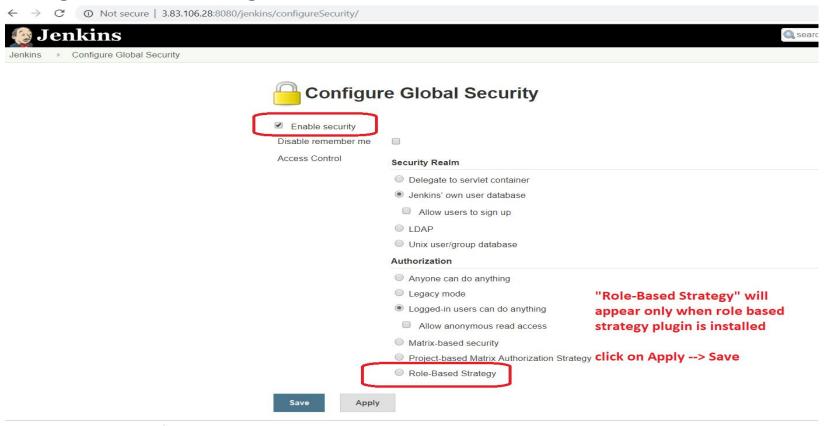
## Please wait while Jenkins is restarting ...

Your browser will reload automatically when Jenkins is ready.

#### **Restarting Jenkins**

```
pam-auth.jpi
                                       ace-editor.jpi
coot@ip-172-31-91-116:~/.jenkins/plugins# ls -t
role-strategy
                                         pipeline-rest-api
                                         pipeline-rest-api.jpi
role-strategy.jpi
email-ext.jpi
                                         pipeline-graph-analysis.jpi
ldap.jpi
                                         workflow-job.jpi
                                         pipeline-stage-step.jpi
pam-auth.jpi
                                         pipeline-input-step.jpi
matrix-auth.jpi
ssh-slaves.jpi
                                         workflow-cps.jpi
                                         workflow-scm-step
subversion.jpi
                                         workflow-scm-step.jpi
napdb-api
mapdb-api.jpi
                                         ace-editor.jpi
                                         jackson2-api
```

# After Restarting Jenkins, login to jenkins as admin → manage Jenkins → Configure Global settings →





#### 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

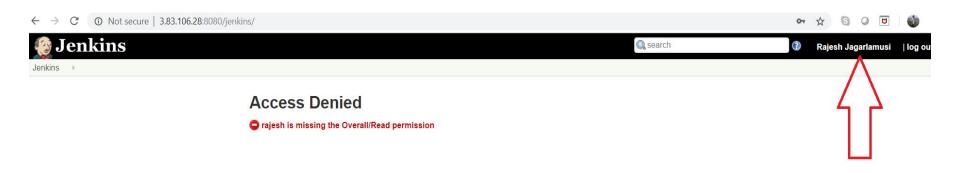


#### **About Jenkins**

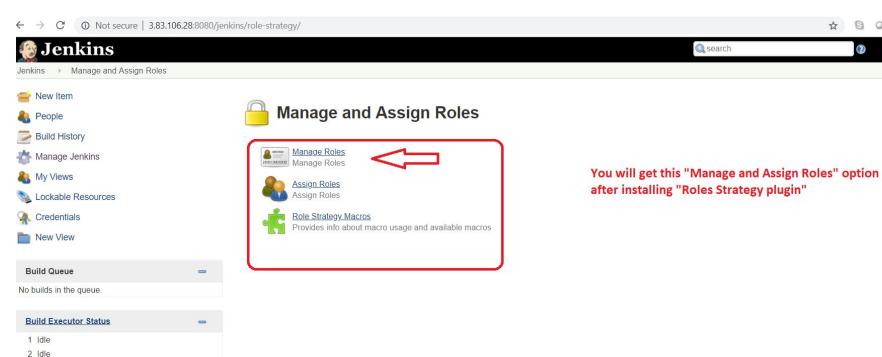
See the version and license information.

You can't see this role based on option before installing plugin

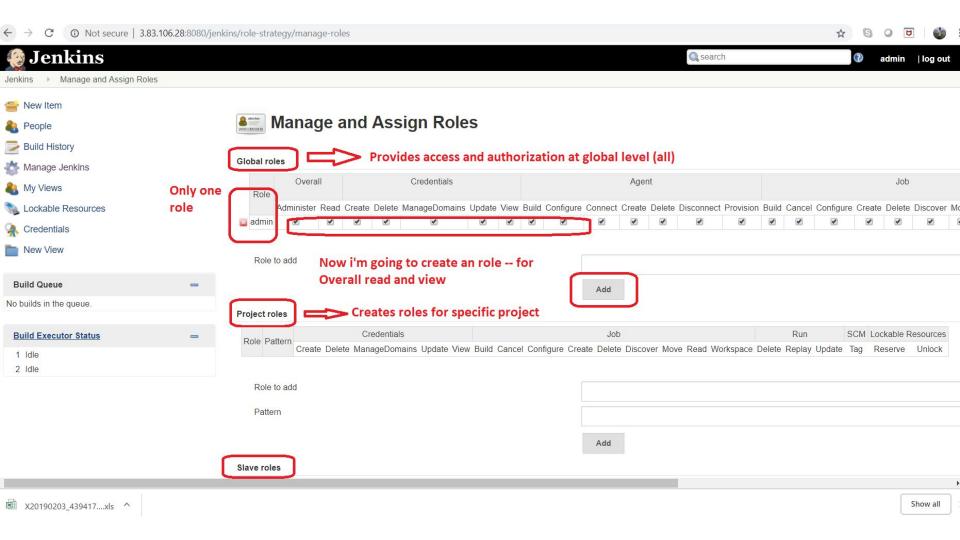
After installing "Roles strategy plugin" try to login with nomal user. You will get below error

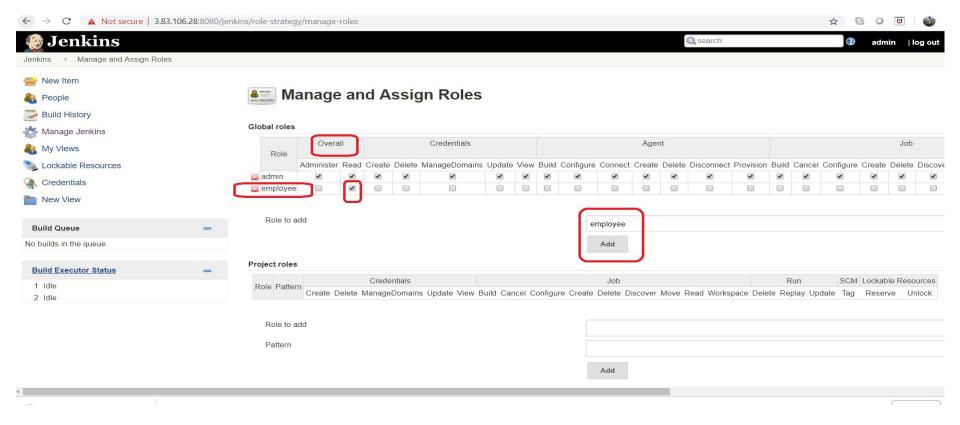


Now, Login with Admin → manage Jenkins → manager and Assign Roles



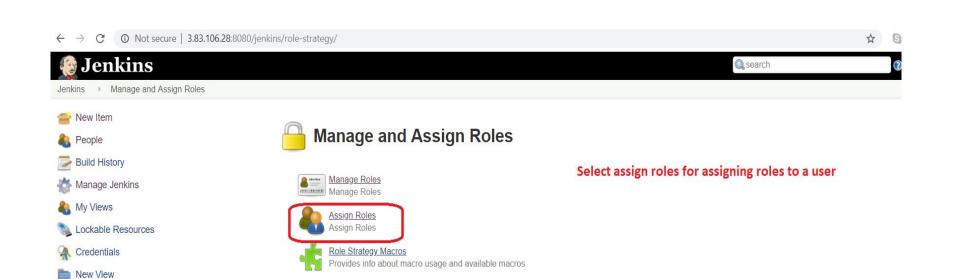
admin | log or





After check mark --- click -- "Apply and Save"

roject roles					.07											
Role Patter	Credentials			Job										Lockable	5	
	Create Delete ManageDomains Up	odate View Build Cancel Co	onfigure	Create	Delete	Discove	r Move F	Read	Workspace	Delete	Replay	Update	Tag	Reserve	Unlock	
Developer Dev.	*		•	•	•	•			•							<b>X</b>
Meaning: user under this role, will access projects starting with Dev only			I	Developer												
			1	Dev.*												
				Add												
lave roles																
Dala Dattara	Credentials	Credentials Ag				ent Lockable Resources										
Role Pattern Crea	ate Delete ManageDomains Update V	ct Delet	te Disco	nnect P	rovision	Reserv	e L	Inlock								
Role to add																
Pattern																
=				Add												
9				Add												
Save App	bly															



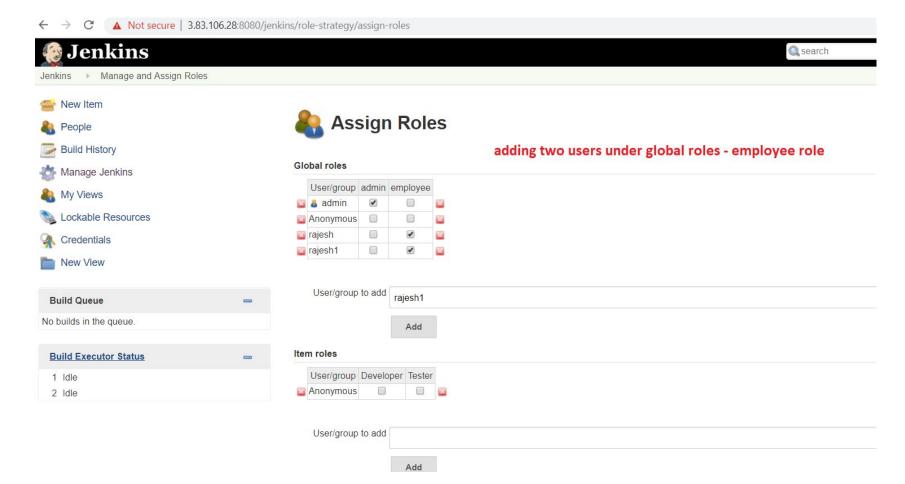
**Build Queue** 

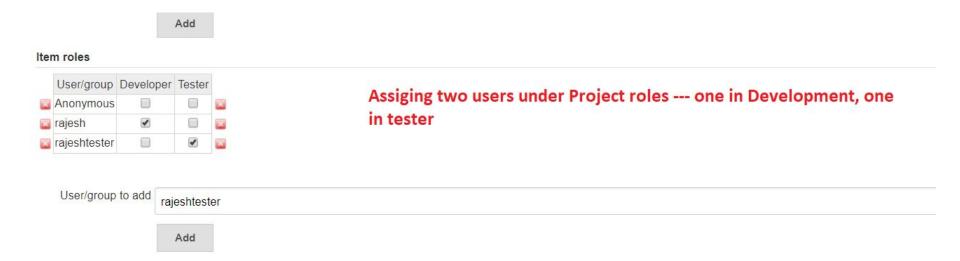
1 Idle 2 Idle

No builds in the queue.

**Build Executor Status** 

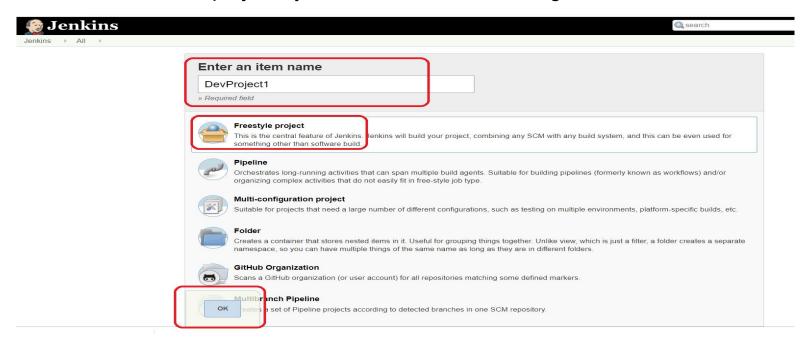
## Manage Jenkins → Manage and assign Roles → Assign roles



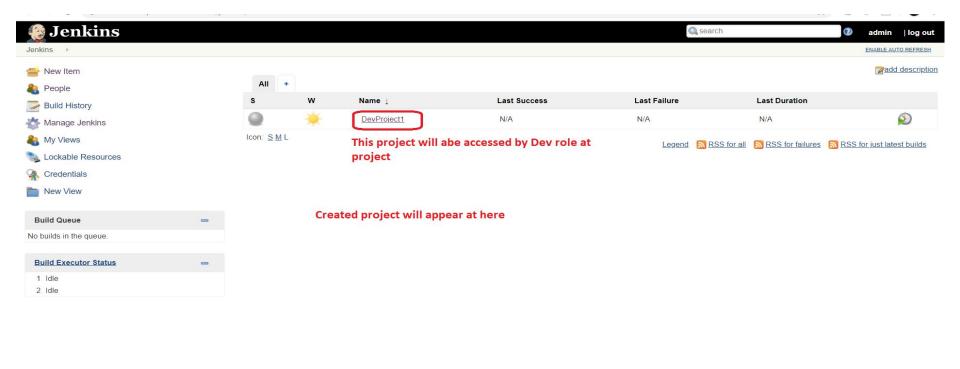


By this, we have added two users under global role and in project roles also - one in development, one in tester

#### Now, i will create new project by click on - "New Item" in login dashboard

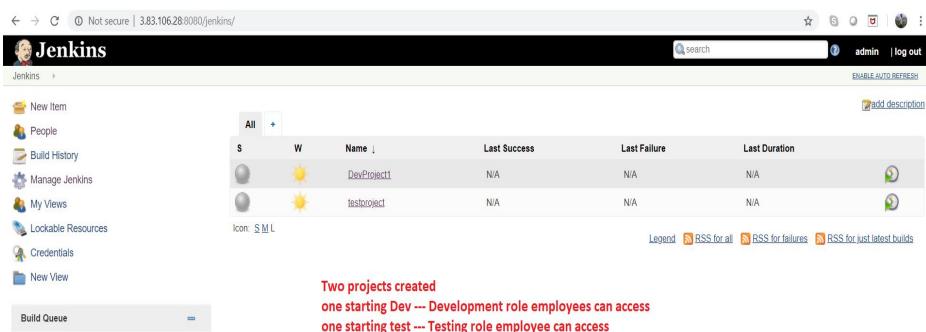


Click on "OK" --- "Save"



# Create one more project "TestProject"

Page generated: Ech 2, 2010 7:27:20 AM LITC DEST ADI Linking yer, 2,150.2



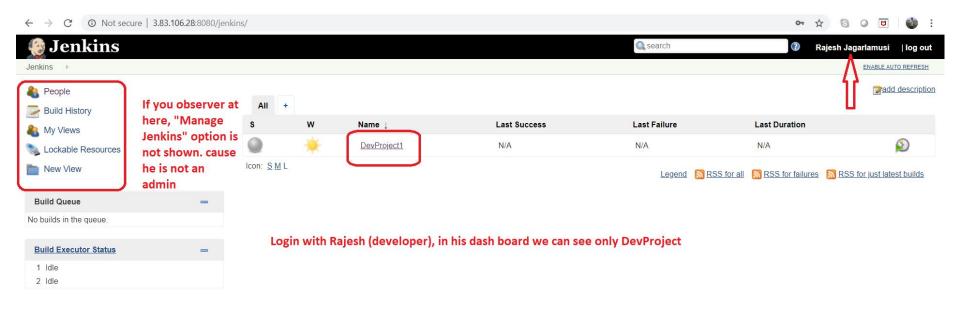
one starting test --- Testing role employee can access

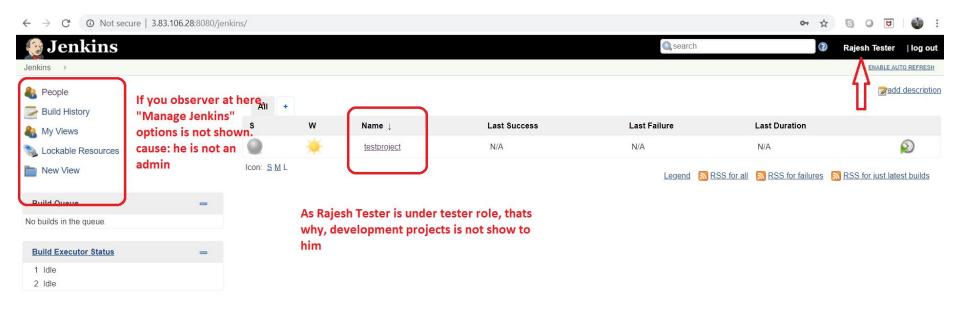
No builds in the queue.

1 Idle

**Build Executor Status** 

Check with different users which you created and confirm First --- im login with rajesh, who is under Developement role





By here, Create, Manage & Assign roles completed