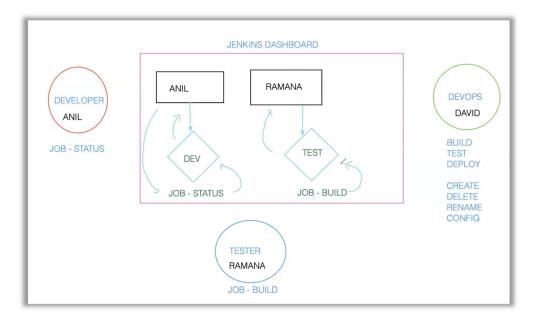
## Jenkins Class - 7

In this class we have to discuss about how to add the user and config the user permissions as well.

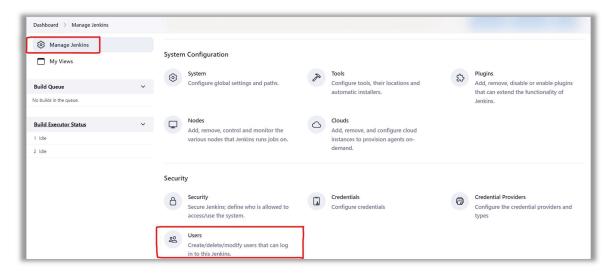
For example,

We have 3 different users in our project, each user should have different limitations of access to perform their activity. So we should give the certain access to the specific users.

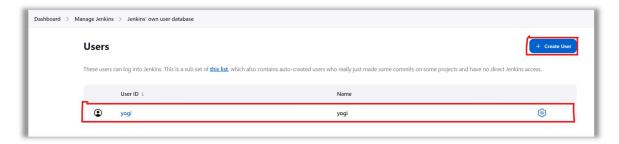
We need to set the permission to the role then attach it to the user. So the user have access of certain permission. Because the user attached with role as mentioned the below layout.



To set the user permission go to the manage Jenkins->users.



You can see the default user is there, to create user click on create user.

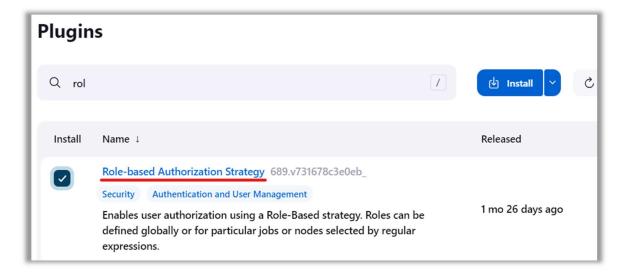


After click on create user, you will get the credential page of the new user. Now you have to fill the new user credentials to create the new user.

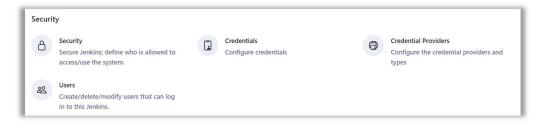
Now you can see the new user has been added in the user dashboard.



Now we need to install **Role-based Authorization Strategy** plugin to make you access permission more flexible.

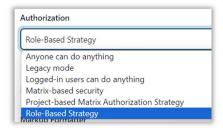


Before change the security settings we can see the 4 categories only as shown in below snap.



Now go to security and change the **Authorization** option. The default option will be **logged-in users** can do anything. So we should change it to **Role-based Authorization Strategy** plugin and save it.

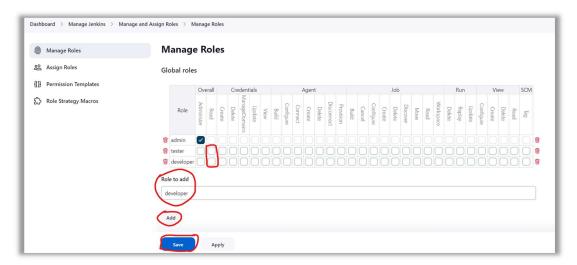
**Note:** If you not installed **Role-based Authorization Strategy** plugin, the option will not visible in Authorization.



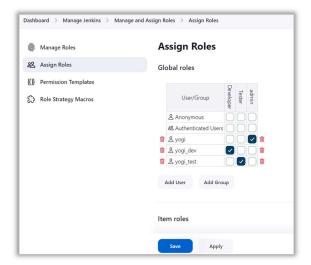
Now you can see the one extra option which is Manage and Assign Roles. Click on it.



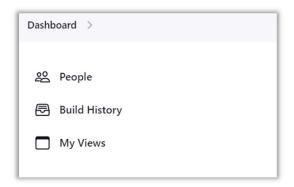
Now we have to set the permission to the role as mentioned below. Initially add the roles like developer, tester and devops then set the permission on it and save it.

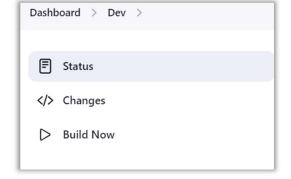


Now we should assign the role to the user as mentioned in the below snap. Then save it.



After set the permission to the roles and attached it to the user you can login as a tester, the tester dashboard will look like the below snap. Because we set the read-only permission to the tester and developer. Once you you opened the any job you can see the Build Now option as a tester. But you can't see the Build Now option in the developer user. If we want to give the more permission you can edit the role permission.

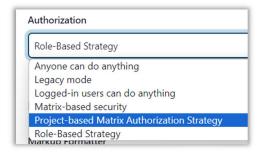




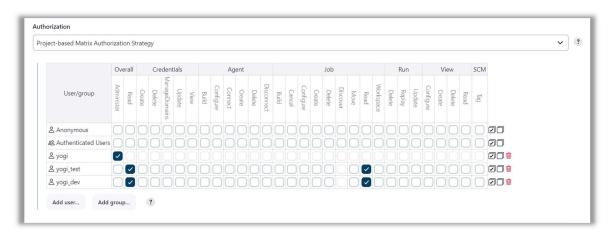
## Set permission to specific jobs.

We can set the permission to the specific jobs as well by following below septs.

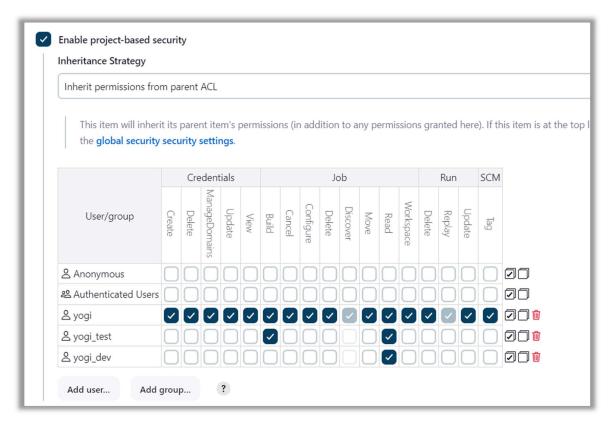
Go to the **Manage Jenkins->security**. Now change the **Authorization** as **Project-based Matrix Authorization Strategy** and save it.



Now set the **administer** permission to the **admin** and set the **read** permission to the **test** and **dev** user.



Now go to the job which one you have to set the permission. Now add the users and set the required permissions here. Then save it. Like this we can set the permission to the specific jobs as well. Now the users have been restricted by the applied permission to the specific jobs.



## **Backup files**

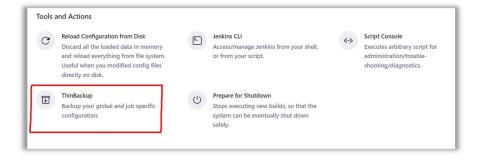
If we mistakenly delete the file, we can restore it from backup files. To backup the files we need to install a plugin which is called **Thinbackup**. go to the **Manage Jenkins->plugins->Available plugins->search "Thinbackup"** and install it.



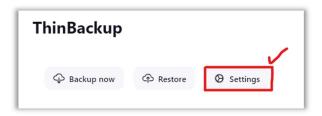
After install it we need to create the path in / directory where ever it is as you wish for example /opt/mybackup/. The mybackup folder doesn't exist we need to create it by executing the command mkdir mybackup. Then we need to change the owner permission. Because the folder's default owner is root. But the Jenkins files owner is Jenkins. So we can't share the files from one user to another user. So we need to change the folder permission as Jenkins.

Go to the **/opt/** path then execute the command **chown Jenkins:Jenkins mybackup/** and need to give the full permissions by execute the command **chmod 777 mybackup/** 

Now open the Jenkins and go to the manage Jenkins we can see the thinbackup in the last option under the **Tools and Actions**.



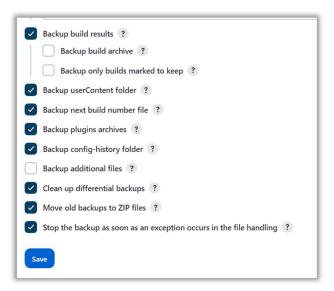
Click on it and need to change the setting by click on settings.



Enter the path which folder you had created for backup. If you want to backup every hour/minute, you can use the cron syntax(\* \* \* \* \*).

ThinBackup Configuration	
Thin Backup settings	
Backup directory ?	
/opt/mybackup/	
Backup schedule for full backups ?	
Backup schedule for differential backups ?	
Max number of backup sets ?	
4	
Files excluded from backup (regular expression)	

Now select the below option for backup files. **Move old backups to ZIP files** - This option is used to compress the file size. Then click on save.



Now click on backup, you can see the **Backup now** in mybackup folder. If you mistakenly delete any file you can restore it from here.

