

Jenkins Views and Freestyle Projects

Freestyle Projects

Freestyle Projects

- A freestyle project in Jenkins is a project that spans multiple operations
- It can be a build, a script run, or even a pipeline.
- Refer:
 - <https://github.com/atingupta2005/Jenkins-5-Days-Training-Material/tree/master/Hands-On/Participants/7.%20Jenkins%20in%20Action/6.%20Jenkins%20Views%20and%20Freestyle%20Projects>

Setting up Freestyle Projects

- Open the main dashboard to create a project using the New Item option on the left navigation menu.
- Enter the name as jenkins-python-run and select Freestyle project.
- Select Git
 - Let's get the repository we are going to build from GitHub
 - From your browser, head to the following address
 - [<>](https://github.com/)
- Select the Clone or download button and copy the link
- Back on our project configuration, add the repository link

Setting up the Build

- On the project configuration page, select Apply and then Save
- Select Build Now on the left navigation menu to run the build.
- Hover over the number to get a drop-down, and select Console Output
- Select Back to Project and then Configure, on the left navigation menu, which should take us back to the project configuration page.
- Under Build, select Add build step. This will enable us to add a step for Jenkins to run our tests.
- Select Execute shell and the following window should pop up.
- Add the commands on the prompt, as follows:
 - `echo "Hello World"`

Setting up the Build

- Click Apply and Save.
- On the left navigation menu, select the Build Now option and the script should run.
- Open the build console and observe the logs. The message Hello World! should be outputted on the console.

Setting up a View to Manage our Projects

Setting up a View to Manage our Projects

- A Jenkins view is basically the display or table that lists our projects. The option lists our projects on the dashboard, as shown:

 [add description](#)

<div>Allpython jobs+</div>						
S	W	Name ↓	Last Success	Last Failure	Last Duration	Fav
		jenkins-python-run	2 days 21 hr - #2	N/A	3.3 sec	 
		sample-script-run	2 days 19 hr - #1	N/A	8.1 sec	 

Icon: [S](#) [M](#) [L](#)

[Legend](#)  [RSS for all](#)  [RSS for failures](#)  [RSS for just latest builds](#)





View Permissions

- To set up the privilege views in Jenkins, follow these steps:
- Under Manage Jenkins, select Configure Global Security.
- Under the Authorization type Matrix based Security, update the developer's permissions to include reading views and jobs, as depicted in the following screenshot:

Job									Run			View			
Build	Cancel	Configure	Create	Delete	Discover	Move	Read	Workspace	Delete	Replay	Update	Configure	Create	Delete	Read
<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"/>	<input type="checkbox"/>
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Setting up Views

- From the Dashboard, views can be added in two ways. Before we proceed, can you notice any differences in the developer view compared to the administrator view?
- As the administrator, notice the view bar just above the first job:

<div>All +</div>		
S	W	Name ↓
		jenkins-python-run
		sample-script-run

Setting up Views

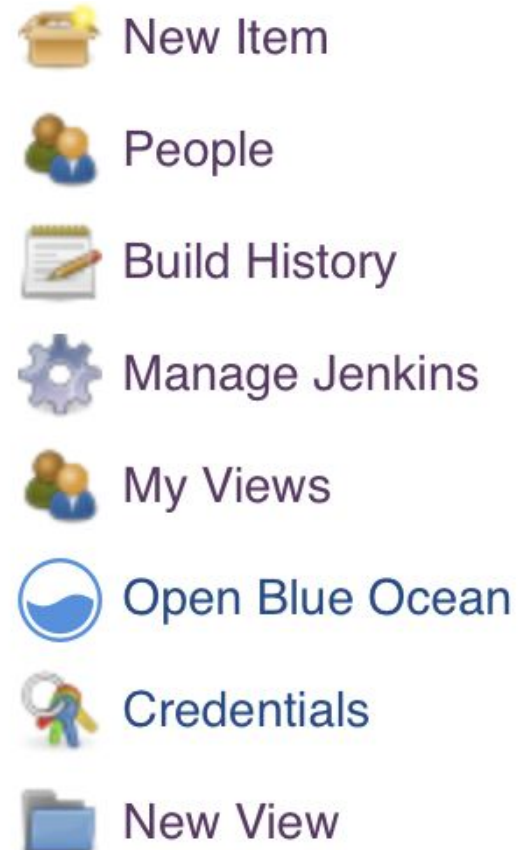
- Here's the developer's view:

All		
S	W	Name ↓
		jenkins-python-run
		sample-script-run

- Do you see any difference? The "+" sign allows us to create views.

Setting up Views

- Now, let's understand how to set up views in Jenkins. We need to perform the following steps:
 - Use the left navigation menu to add more views by selecting New View. Go ahead and select this option:



Activity: Setting up a View to Manage our Projects

- You have been asked to set up a miscellaneous view, which includes jobs that do everything but run tests.

Steps for Completion

- On the left navigation menu, select New View.
- Select List View and put the View name as miscellaneous.
- Update the view's description and select the job(s)
- Update the Columns where necessary, and then click Apply and Save.
- The view should be listed on the dashboard, and with it, the job(s).
- Verify that the developer is able to access the views and jobs.

Thanks