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.

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:

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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
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
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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:

Setting up Views

- Here's the developer's view:

- 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