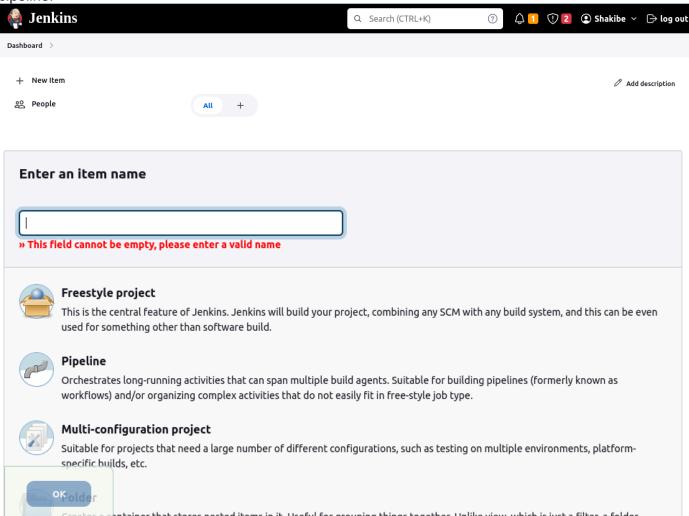
Jenkins Pipeline configuration for a bash script

Last updated by | shakibesaib | Aug 9, 2023 at 12:11 PM GMT+6

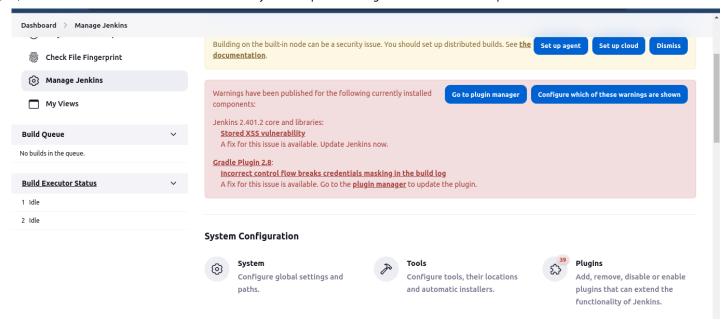
To execute a bash script from a repo, configuration of a Jenkins pipeline:

 We need to create a new item from jenkins dashboard, name it and we have to select a type of our pipeline.



Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder I am using Freestyle project.

2. Then we have to do some global configuration of Jenkins. Manage Jenkins>System Configuration>System



3. As i want to receive a email after my script is built and also want the csv file which is a output of my script, I need to install or check **Extendable email notification** plugin.

Extended E-mail Notification SMTP server smtp.gmail.com SMTP Port 465 Advanced > Proceed Edited

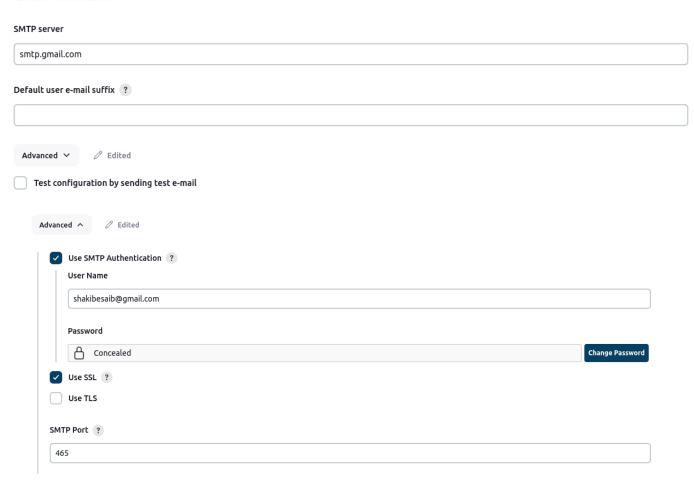
i used <u>smtp.gmail.com</u> as my email service provider is gmail, and for gmail smtp port is 465. Then, i need to select advance and add there my email and password for smtp authentication and have to select SSL.



password isnt the exact email password that we use for email login. We have to create a app password from our email manage account cause gmail and other email service provider doesnt allow those app, which doesnt have signin with gmail/or any service provider, to login with actual email password.

4. In Email notification section, we have to do the same as last step.

E-mail Notification

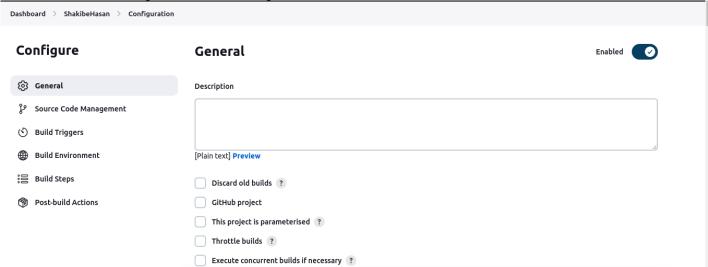


5. Before saving the configuration, we can test our email configuration by sending a demo email. We have to select test email configuration and have to provide a valid email address.



Now we gonna save it and will go back to dashboard & select our item from dashboard.

6. From the left side we gonna select configuration.



Here we can give a description of our project.

7. The we will check Source Code Management Section(SCM). We gonna select Git and add our repository and credential(if needed).



8. Then from Build Triggers section, we gonna select Poll SCM, and schedule with * * * * * Here, * * * * this mean every minute, every hour, every day, every month, every year. So, Jenkins will check repository every minute to check if any changed has made. If made, it will automatically pull the

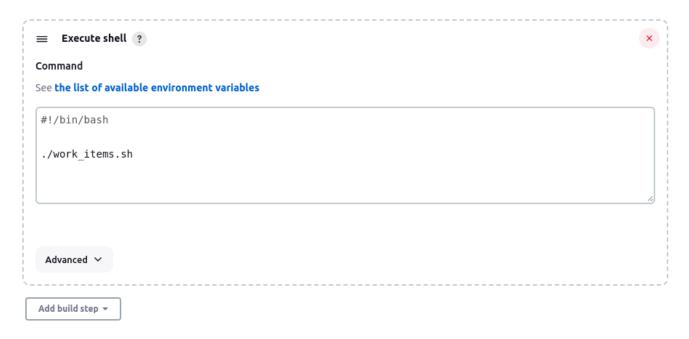
changes and build it.

Build Triggers	
	Trigger builds remotely (e.g., from scripts) ?
	Build after other projects are built ?
	Build periodically ?
	GitHub hook trigger for GITScm polling ?
~	Poll SCM ?
	Schedule ?

	Do you really mean "every minute" when you say "* * * * * * "? Perhaps you meant "H * * * * " to poll once per hour Would last have run at Wednesday, August 9, 2023 at 11:50:42 AM Bangladesh Standard Time; would next run at Wednesday, August 9, 2023 at 11:50:42 AM Bangladesh Standard Time.
	Ignore post-commit hooks ?

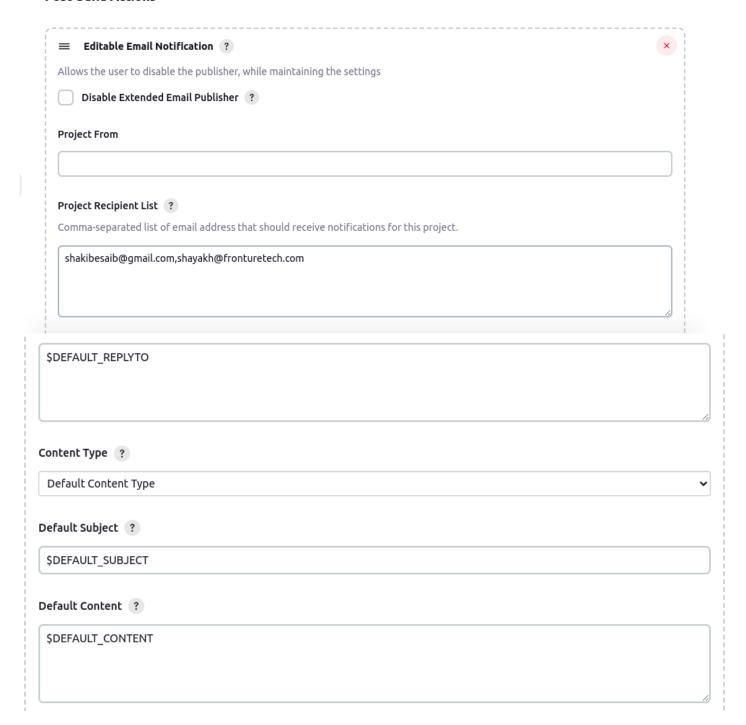
9. In Build Step, from add step, we gonna select the Execute shell and add commands to execute the script as like we do in our linux mint terminal. Here execute shell default directory is \$Workspace which is a environment variable of jenkins and its value is var/lib/jenkins/workspace

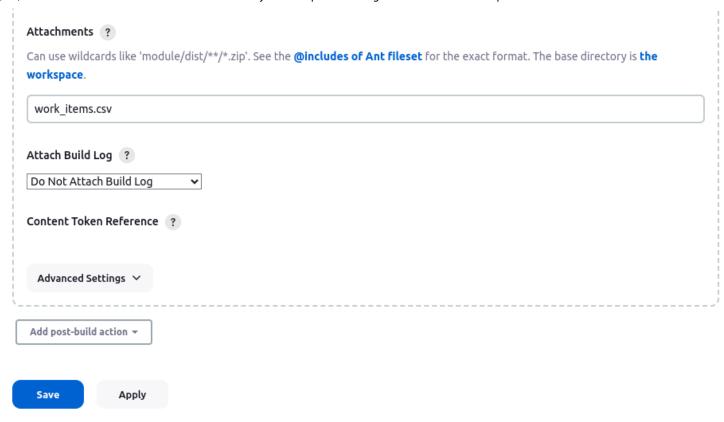
Build Steps



10. In the post build section, we gonna add a step, Editable Email Notification as planned to receive a email after my script is built and also want the csv file which is a output of my script. Check out the configuration below-

Post-build Actions





In the attachment part i gave the path to my csv file, here also the base directory is workspace. So just give the file name you want attach with the email. Save and Select build from the left side.

11. After build check the build status.



```
Started by user Shakibe
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/ShakibeHasan
The recommended git tool is: NONE
using credential 86fc3e93-a491-484f-81a4-424dfaab6238
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/ShakibeHasan/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://dev.azure.com/fronturetech/Fronture%20ERP/ git/bash%20hands-
on%20labs%20by%20shakibe%20hasan # timeout=10
Fetching upstream changes from https://dev.azure.com/fronturetech/Fronture%20ERP/ git/bash%20hands-
on%20labs%20by%20shakibe%20hasan
> git --version # timeout=10
> git --version # 'git version 2.34.1'
using GIT ASKPASS to set credentials
> git fetch --tags --force --progress -- https://dev.azure.com/fronturetech/Fronture%20ERP/ git/bash%20hands-
on%20labs%20by%20shakibe%20hasan +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision dc20752ab30683f36c414d9d9f8eaf06a2b3bf63 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
```

```
> git checkout -f dc20752ab30683f36c414d9d9f8eaf06a2b3bf63 # timeout=10
Commit message: "Final Debug"
 > git rev-list --no-walk dc20752ab30683f36c414d9d9f8eaf06a2b3bf63 # timeout=10
No emails were triggered.
[ShakibeHasan] $ /bin/bash /tmp/jenkins11412314404547086787.sh
27
       Get Overview of DevOps and Write a document for our internal use
                                                                            Done
                                                                                   Shakibe Hasan
29
       Learn Bash/Powershell and write document for our internal use Done
                                                                           Shakibe Hasan
30
       Web server Setup (Apache, Nginx) Review Shakibe Hasan
31
       Database Server Setup (Mysql) Review Shakibe Hasan
       Database User Management
32
                                      Review Shakibe Hasan
33
       Mysql Database Backup (Without incremental or differential backup because of license cost)
                                                                                                  Review
Shakibe Hasan
       GIT Server Setup (gitea)
                                             Shakibe Hasan
                                      Done
35
       Git Server User Management
                                    Done
                                             Shakibe Hasan
       Git Manage server all things
36
                                      Done
                                            Shakibe Hasan
       Jenkins Server Setup
                            Done Shakibe Hasan
37
38
       Manage whole Jenkins server Committed
                                                    Shakibe Hasan
39
       All applications are deployed through pipeline Job. (Test & Prod Enivronment)
                                                                                   New
                                                                                           Shakibe Hasan
40
       OS(Linux) user Management
                                      New
                                             Shakibe Hasan
41
       Application Host (Laravel, Node, React, Vue) Review Shakibe Hasan
42
       REST API
                       Done Shakibe Hasan
45
       POSTMAN tool Done Shakibe Hasan
46
       CURL
               Done Shakibe Hasan
47
       JS0N
               Done Shakibe Hasan
       GET, POST, PUT, DELETE method Done
                                             Shakibe Hasan
       bash script to fetch Review Shakibe Hasan
49
       Configure a Jenkins pipeline from https://dev.azure.com/fronturetech/Fronture%20ERP/ git/bash%20hands-
on%20labs%20by%20shakibe%20hasan
                                      Committed
                                                     Shakibe Hasan
       Configure jenkins pipeline for node hello world app. Approved
                                                                            Shakibe Hasan
work items has been exported to work items.csv
shakibe hasan
Email was triggered for: Always
Sending email for trigger: Always
Sending email to: shakibesaib@gmail.com shayakh@fronturetech.com
Finished: SUCCESS
```

and check email.

