LAB3

What are the different methods to trigger pipeline in Jenkins?

- Trigger builds remotely
- Build after other projects are built
- Build periodically
- GitHub hook trigger
- Poll SCM

What is the benefit of using master-slave architecture rather than building on master only?

- Produce backups
- Scale out the application
- Split your work without causing a mess
- Top-notch performance

What is the difference between authorization and authentication?

- Authentication verifies the identity of a user or service.
- Authorization determines their access rights.

What is the benefit of making an organization job in Jenkins?

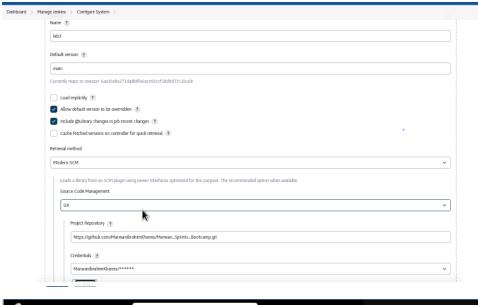
Organization Folders enable Jenkins to monitor an entire GitHub Organization, Bitbucket Team/Project, GitLab organization, or Gitea organization and automatically create new Multibranch Pipelines for repositories which contain branches and pull requests containing a Jenkinsfile.

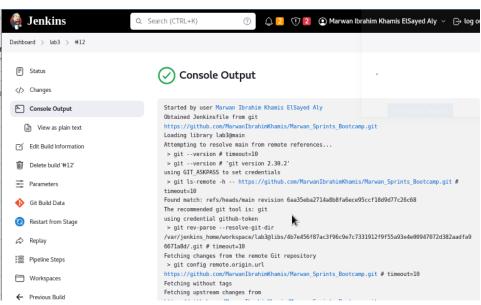
make jenkins-shared-library and make your jenkinsfile which you used in lab2 to point to this library



Give feedback

```
36 lines (30 sloc) 744 Bytes
  1 @Library('lab3')_
          booleanParam(name:'project', defaultValue: true, description:'this paramater help you to know project name')
          choice(name: 'namespace', choices:['dev','prod','stage'], description: '' )
 10
        stages {
         stage('check') {
 11
 12
            steps {
 13
                 check(namespace)
 14
        }
 15
 16
 17
         stage('test') {
 18
 19
           when {
               expression{
                    params.project == true
            }
steps {
 24
 25
                 test()
 27
 28
         stage('deployment') {
            steps {
 31
                deployment()
 32
 33
          }
 34 }
 35
 36 }
```





```
Dashboard > lab3 > #12
                                                                 Fetching upstream changes from
  ← Previous Build
                                                                 https://github.com/MarwanIbrahimKhamis/Marwan\_Sprints\_Bootcamp.git
                                                                 > git --version # timeout=10
                                                                  > git --version # 'git version 2.30.2'
                                                                 using GIT_ASKPASS to set credentials
                                                                > git fetch --no-tags --force --progress --
https://github.com/MarwanIbrahimkhamis/Marwan_Sprints_Bootcamp.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
Checking out Revision Gaa3Seba2714aBb8Ta6ece95ccf18d9d77c26c68 (main)
                                                                 > git config core.sparsecheckout # timeout=10
                                                                > git checkout -f 6aa35eba2714a8b8fa6ece95ccfl8d9d77c26c68 # timeout=10
Commit message: "Update Jenkinsfile"
                                                                 > git rev-list --no-walk ff958b66426d768e445c24707d70289ba299b071 # timeout=10
                                                                [Pipeline] Start of Pipeline
[Pipeline] node
                                                                Running on Jenkins in /var/jenkins_home/workspace/lab3
                                                                [Pipeline] {
[Pipeline] stage
                                                                [Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
The recommended git tool is: git
                                                                 using credential github-token
                                                                sgir revenies girmun-token
> gir rev-parse --resolve-gir-dir /var/jenkins_home/workspace/lab3/.git # timeout=10
Fetching changes from the remote Gir repository
                                                                  > git config remote.origin.url
                                                                 https://github.com/MarwanIbrahimKhamis/Marwan_Sprints_Bootcamp.git # timeout=10
                                                                Fetching upstream changes from https://github.com/MarwanIbrahimKhamis/Marwan_Sprints_Bootcamp.git
                                                                > git --version # timeout=10
```

Dashboard > lab3 > #12

```
[Pipeline] {
[Pipeline] stage
[Pipeline] { (check)
[Pipeline] echo
checking your code
[Pipeline] echo
prod
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (test)
[Pipeline] echo
testing your app
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (deployment)
[Pipeline] echo
your code is deployed right now
[Pipeline] echo
this build number 12
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
F. nished: SUCCESS
```