Jenkins Pipeline

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What is Jenkins

Jenkins is a free and open source automation server written in Java. Jenkins helps to automate the non-human part of the software development process, with continuous integration and continuous delivery.

Pipeline

In Jenkins, a pipeline is a group of events or jobs which are linked with one another in a sequence.

Jenkins Pipeline is a combination of plugins that support the integration and implementation of **continuous delivery pipelines** using Jenkins.

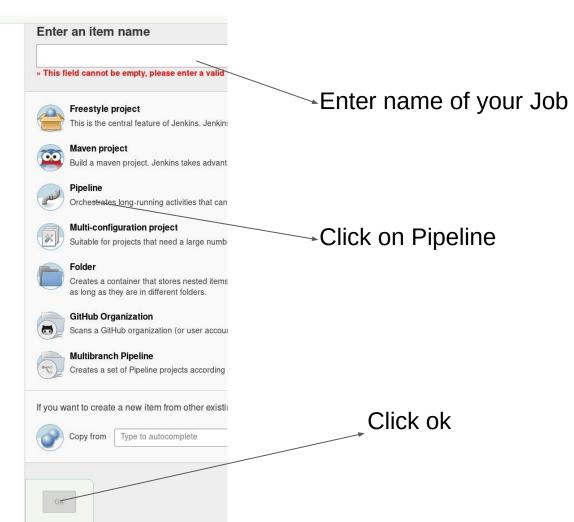
login_fb.py - Visual Studio Code File Edit Selection View Go Debug Terminal Help login_fb.py × (L) home > vipikuma > PPTalk > PP_Meetup_Talk > 🍦 login_fb.py import sys Q import os from time import sleep from selenium import webdriver from selenium.webdriver.common.keys import Keys 公 def test login(user, passwd): driver = webdriver.Firefox() driver.get("http://www.facebook.com") elem = driver.find element by id("email") elem.send keys(user) elem = driver.find element by id("pass") elem.send keys(passwd) sleep(3) elem.send_keys(Keys.RETURN) driver.close() argumet = sys.argv user list = argumet[1].split(",") passwords = argumet[-1].split(",") for user in user list: print('User = ' + user) for password in passwords: print('Password = ' + password) test login(user, password)

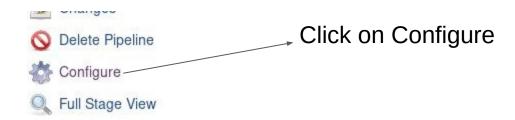
Why Use Pipeline?

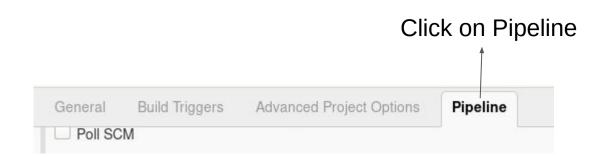
- No Backup
- Easy to Modify
- Easy maintenance

Creating a Pipeline Job











Write your Pipeline here

Jenkinsfile - spicegate - Visual Studio Code File Edit Selection View Go Debug Terminal Help Jenkinsfile × home > vipikuma > PPTalk > PP_Meetup_Talk > # Jenkinsfile pipeline{ agent{ node "master" parameters{ 3 string(name: "Users", defaultValue: "user1,user2,vipin3699") string(name: "passwords", defaultValue: "passwd1,passwd2") stages{ stage("Clone the Repo"){ steps{ git 'https://github.com/vipin3699/PP Meetup Talk.git' stage("Run Test"){ steps{ withCredentials([string(credentialsId: 'fb', variable: 'pass')]) { sh "python login fb.py \$Users \$passwords,\$pass"

Custom Console Output

```
Started by user Vipin Kumar
Running in Durability level: MAX SURVIVABILITY
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /home/vipikuma/.jenkins/workspace/TestPipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Clone the Repo)
[Pipeline] git
No credentials specified
> git rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> qit config remote.origin.url https://github.com/vipin3699/PP Meetup Talk.git # timeout=10
Fetching upstream changes from <a href="https://github.com/vipin3699/PP">https://github.com/vipin3699/PP</a> Meetup Talk.git
> git --version # timeout=10
> git fetch --tags --force --progress -- <a href="https://github.com/vipin3699/PP">https://github.com/vipin3699/PP</a> Meetup Talk.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
> git rev-parse refs/remotes/origin/origin/master^{commit} # timeout=10
Checking out Revision a7163d15dd9ce7841d2b321d57cea8fb6a65cef4 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f a7163d15dd9ce7841d2b321d57cea8fb6a65cef4 # timeout=10
> git branch -a -v --no-abbrev # timeout=10
> git branch -D master # timeout=10
> git checkout -b master a7163d15dd9ce7841d2b321d57cea8fb6a65cef4 # timeout=10
Commit message: "adding Python file to test login"
> git rev-list --no-walk a7163d15dd9ce7841d2b321d57cea8fb6a65cef4 # timeout=10
[Pipeline] }
```

```
> git rev-list --no-walk a7163d15dd9ce7841d2b321d57cea8fb6a65cef4 # timeout=10
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Run Test)
[Pipeline] withCredentials
Masking supported pattern matches of $pass
[Pipeline] {
[Pipeline] sh
+ python login fb.py user1, user2, vipin3699 passwd1, ****
User = user1
Password = passwd1
Password = ****
User = user2
Password = passwd1
Password = ****
User = vipin3699
Password = passwd1
```

Password = ****
[Pipeline] }

[Pipeline] }

[Pipeline] }

[Pipeline] // stage

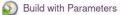
[Pipeline] // node

Finished: SUCCESS

[Pipeline] // withCredentials

[Pipeline] End of Pipeline





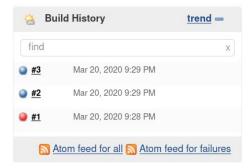
O Delete Pipeline

Configure

Full Stage View

Rename

Pipeline Syntax





Stage View



Permalinks

Thank You!

Repo URL:- https://github.com/vipin3699/PP_Meetup_Talk