

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.




```
1 import sys
2 import os
3 from time import sleep
4 from selenium import webdriver
5 from selenium.webdriver.common.keys import Keys
```

```
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()
```

```
argument = sys.argv
user_list = argument[1].split(",")
passwords = argument[-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

Jenkins



New Item



People

Click New Item

Enter an item name

» This field cannot be empty, please enter a valid



Freestyle project

This is the central feature of Jenkins. Jenkins



Maven project

Build a maven project. Jenkins takes advant



Pipeline

Orchestrates long-running activities that can



Multi-configuration project

Suitable for projects that need a large numb



Folder

Creates a container that stores nested items
as long as they are in different folders.



GitHub Organization

Scans a GitHub organization (or user accoun



Multibranch Pipeline

Creates a set of Pipeline projects according

If you want to create a new item from other existi



Copy from



Enter name of your Job

Click on Pipeline

Click ok



Delete Pipeline

Configure

Full Stage View

Click on Configure

Click on Pipeline

General

Build Triggers

Advanced Project Options

Pipeline

☐ Poll SCM

Pipeline

Definition

Pipeline script

Script

1

try sample Pipeline...

☒ Use Groovy Sandbox

[Pipeline Syntax](#)

Save

Apply

Write your Pipeline here

Jenkinsfile ×

home > vipikuma > PPTalk > PP_Meetup_Talk > Jenkinsfile

```
1 pipeline{
2   agent{
3     node "master"
4   }
5
6   parameters{
7     string( name: "Users", defaultValue: "user1,user2,vipin3699" )
8     string( name: "passwords", defaultValue: "passwd1,passwd2" )
9   }
10
11   stages{
12     stage("Clone the Repo"){
13       steps[
14         git 'https://github.com/vipin3699/PP_Meetup_Talk.git'
15       ]
16     }
17     stage("Run Test"){
18       steps{
19         withCredentials([string(credentialsId: 'fb', variable: 'pass')]) {
20           sh "python login_fb.py $Users $passwords,$pass"
21         }
22       }
23     }
24   }
25 }
26
```



master*



Python 3.7.5 64-bit



0 / 0

Ln 14, Col 70

Spaces: 4

UTF-8

LF

Groovy



1

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
> git config remote.origin.url https://github.com/vipin3699/PP\_Meetup\_Talk.git # timeout=10
Fetching upstream changes from https://github.com/vipin3699/PP\_Meetup\_Talk.git
> git --version # timeout=10
> git fetch --tags --force --progress -- https://github.com/vipin3699/PP\_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/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] // withCredentials
```

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
[Pipeline] }
```

```
[Pipeline] // node
```

```
[Pipeline] End of Pipeline
```

Finished: SUCCESS



Changes



Build with Parameters



Delete Pipeline



Configure



Full Stage View



Rename



Pipeline Syntax



[Recent Changes](#)

Stage View

Build History [trend](#)

x

#3

 Mar 20, 2020 9:29 PM

#2

 Mar 20, 2020 9:29 PM

#1

 Mar 20, 2020 9:28 PM

[Atom feed for all](#) [Atom feed for failures](#)



Permalinks

Thank You!

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