

Jenkins Projects

1) Create jenkins pipeline for your repo and use script file (jenkinsfile) to write pipeline syntax, include parameter functions and env variable in it ?

Pipeline script from SCM

SCM ?

Git

Repositories ?

Repository URL ?

https://github.com/MohammedSaadyAhmed/PrivateRepo1

Credentials ?

MohammedSaady/***** (Private_Repo)

Add

Advanced

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

*

Save

Apply

Script Path ?

Jenkinsfile

☒ Lightweight checkout ?

Pipeline Syntax

Save

Apply

```
Question6_Lab2 #2 Con x System » Global credenti x Jenkins-demo/Jenkinsfil x Personal Access Tokens ( x MohammedSaadyAhmed x +
127.0.0.0:8080/job/Question6_Lab2/2/console
New Tab ... ايجي بيست مشأا Classes* إدارة حساب رق... مشاهدة وتحميل... YouTube Dow... CoursesBb Ahmed Walid Benaar - fourth... (1) Civil Societ... Revit Home - Udacity 2019 بآالنه مدرسي... Saady »

Dashboard > Question6_Lab2 > #2
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (check)
[Pipeline] echo
checking your code
[Pipeline] echo
dev
[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 2
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

2) Create another multibranch pipeline and filter branches to contain only (master , dev , test) ?

The screenshot shows the Jenkins interface for a pipeline named '1st..MultiBranch'. The left sidebar contains navigation links: Status, Configure, Scan Multibranch Pipeline Now, Scan Multibranch Pipeline Log, Multibranch Pipeline Events, Delete Multibranch Pipeline, People, Build History, Project Relationship, Check File Fingerprint, Rename, Pipeline Syntax, and Credentials. The main area displays the pipeline's status with a folder name 'Q7_Lab2' and a 'Disable Multibranch' button. A table lists the branches: dev, master, and test. Each branch has a green status icon, a sun icon, and a last success time of 1 min 20 sec. The last failure is N/A, and the last duration is 10 sec, 13 sec, and 11 sec respectively. At the bottom, the 'Build Queue' and 'Build Executor Status' sections are visible, both showing no builds.

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀	dev	1 min 20 sec #1	N/A	10 sec
✓	☀	master	1 min 20 sec #1	N/A	13 sec
✓	☀	test	1 min 20 sec #1	N/A	11 sec

The screenshot shows the 'Scan Multibranch Pipeline Log' page for the '1st..MultiBranch' pipeline. The left sidebar is the same as the previous screenshot. The main area displays the log of the pipeline scan. The log starts with 'Started by user Mohammed Saady Ahmed' and shows the process of starting branch indexing, setting the origin to 'https://github.com/MohammedSaadyAhmed/PrivateRepo', and listing remote references. It then shows the process of checking branches for 'master', 'test', and 'dev'. The log ends with 'Finished: SUCCESS'.

```
Started by user Mohammed Saady Ahmed
[Wed Jun 21 23:45:18 UTC 2023] Starting branch indexing...
> git --version # timeout=10
> git --version # 'git version 2.30.2'
using GIT_ASKPASS to set credentials Private Repo
> git ls-remote --symref -- https://github.com/MohammedSaadyAhmed/PrivateRepo # timeout=10
> git rev-parse --resolve-git-dir /var/jenkins_home/caches/git-83159880aba76c9c50d7528c51d640fb/.git # timeout=10
Setting origin to https://github.com/MohammedSaadyAhmed/PrivateRepo
> git config remote.origin.url https://github.com/MohammedSaadyAhmed/PrivateRepo # timeout=10
Fetching & pruning origin...
Listing remote references...
> git config --get remote.origin.url # timeout=10
> git --version # timeout=10
> git --version # 'git version 2.30.2'
using GIT_ASKPASS to set credentials Private Repo
> git ls-remote -h -- https://github.com/MohammedSaadyAhmed/PrivateRepo # timeout=10
Fetching upstream changes from origin
> git config --get remote.origin.url # timeout=10
using GIT_ASKPASS to set credentials Private Repo
> git fetch --tags --force --progress --prune -- origin +refs/heads/*:refs/remotes/origin/* # timeout=10
Checking branches...
Checking branch master
'Jenkinsfile' found
Met criteria
Scheduled build for branch: master
Checking branch test
'Jenkinsfile' found
Met criteria
Scheduled build for branch: test
Checking branch dev
'Jenkinsfile' found
Met criteria
Scheduled build for branch: dev
Processed 4 branches
[Wed Jun 21 23:45:24 UTC 2023] Finished branch indexing. Indexing took 6.3 sec
Finished: SUCCESS
```

4.) try to make new slave as container or ec2 server and configure master to use it



Console Output

```
Started by user Mohammed Saady Ahmed
[Pipeline] Start of Pipeline
[Pipeline] node
Running on ec2-slave in /home/ubuntu/jenkins_home/workspace/slave-pipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Hello)
[Pipeline] echo
Hello World
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Remote root directory ?

/home/ubuntu/jenkins_home

Labels ?

ec2-slave

Usage ?

Only build jobs with label expressions matching this node

Launch method ?

Launch agents via SSH

Host ?

3.92.55.12

Credentials ?

ubuntu

Add +

Host Key Verification Strategy ?

Non verifying Verification Strategy

Search (CTRL+K)

1

1

Mohammed Saady Ahmed

log out

Nodes

[+ New Node](#)

S	Name	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	Built-in Node	Linux (amd64)	In sync	49.54 GB	3.47 GB	49.54 GB	0ms
	ec2-slave	Linux (amd64)	11 sec ahead	N/A	0 B	N/A	22827ms
Data obtained		10 min	10 min	10 min	10 min	10 min	10 min

Instances (1) [info](#)

Find Instance by attribute or tag (case-sensitive)

Refresh

Connect

Instance state ▼

Actions ▼

Launch instances ▼

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input type="checkbox"/>	ec2-terraform1	i-0740c0940a51ddc6d	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	-	-	-

[EC2](#) > [Instances](#) > [i-08ee69172200574a7](#) > [Get system log](#)

Get system log [info](#)

When you experience issues with your EC2 Instance, reviewing system logs can help you pinpoint the cause.

System log

Review system log for instance i-08ee69172200574a7 as of Fri Jul 07 2023 19:21:28 GMT+0300 (Eastern European Summer Time)

Refresh

Copy log

Download

Copy system log to clipboard

```
ci-info: +-----+
ci-info: | ssh-rsa | 1e:cb:43:02:41:d8:3b:48:00:ab:a8:89:71:85:ef:14:04:01:20:47:1b:21:4d:95:ab:0e:d1:e0:89:82:ec:a2 | - | slave |
ci-info: +-----+
<14>Jul 7 15:37:51 cloud-init: #####
<14>Jul 7 15:37:51 cloud-init: -----BEGIN SSH HOST KEY FINGERPRINTS-----
<14>Jul 7 15:37:51 cloud-init: 1024 SHA256:2jU5tSHTVZYyrj2Aeob1ihTwbGsdgMU/V8FJnwXXEeY root@ip-10-0-0-80 (DSA)
<14>Jul 7 15:37:51 cloud-init: 256 SHA256:MjztbsSgWnwQKy26kcogw0JehZCXmx4obL4w2vbydEg root@ip-10-0-0-80 (ECDSA)
<14>Jul 7 15:37:51 cloud-init: 256 SHA256:HjERnAEUwUE0uFIR66x0xAsUzo1i2TRn7hb69ztWIE root@ip-10-0-0-80 (ED25519)
<14>Jul 7 15:37:51 cloud-init: 3072 SHA256:nigFfIImoHh9aUZrtrRBDtyv68xOFipwrkM8n4c2Aw0o root@ip-10-0-0-80 (RSA)
<14>Jul 7 15:37:51 cloud-init: -----END SSH HOST KEY FINGERPRINTS-----
<14>Jul 7 15:37:51 cloud-init: #####
-----BEGIN SSH HOST KEY KEYS-----
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHhAYnYAAAABmlzdHhAYnYAAAABBBB+XKFwDvtAzTmztnjE04MKfRGKLM21kJDmI2r4cNWL73Q/jhXvSmqgQK21azauIVRUXj4U3H0V9KZRFBNRB68= root@ip-10-0-0-80
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIB/mFMcb4kNiVW7S50RoLwxMRNVa/VhsVlqwT0AAVln9 root@ip-10-0-0-80
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGCcn+gwd6iBy0uBcVtPose1TySDPY40ktYz19XduRn5U+GdosqQTADKTrEXhcAd3Pv/s3v1lmSep4NsBDckZ085Ys5UqkHRd9b7teybQmliJ83JtvIF7XcOrrSEKLVHMDJoEig
-----END SSH HOST KEY KEYS-----
[ 63.386391] cloud-init[1193]: Cloud-init v. 23.1.2-0ubuntu0-22.04.1 finished at Fri, 07 Jul 2023 15:37:51 +0000. DataSource DataSourceEccLocal. Up 63.38 seconds
[0:32m OK = [0m] Finished a[0;1;39mExecute cloud user/final scriptsa[0m.
[0:32m OK = [0m] Reached target a[0;1;39mCloud-init targetsa[0m.
```

[C2](#) > [Instances](#) > [i-08ee69172200574a7](#)

Instance summary for i-08ee69172200574a7 (ec2-slave) [info](#)

Updated less than a minute ago

Instance ID i-08ee69172200574a7 (ec2-slave)	Public IPv4 address 3.92.55.12 open address	Private IPv4 addresses 10.0.0.80
IPv6 address -	Instance state Running	Public IPv4 DNS -
Hostname type IP name: ip-10-0-0-80.ec2.internal	Private IP DNS name (IPv4 only) ip-10-0-0-80.ec2.internal	Elastic IP addresses -
Answer private resource DNS name -	Instance type t2.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
Auto-assigned IP address 3.92.55.12 [Public IP]	VPC ID vpc-080e53b17a0774fdf (VPC1)	Auto Scaling Group name -
IAM Role -	Subnet ID subnet-091cb504003166036 (subnet Jenkins)	
IMDSv2 Optional		