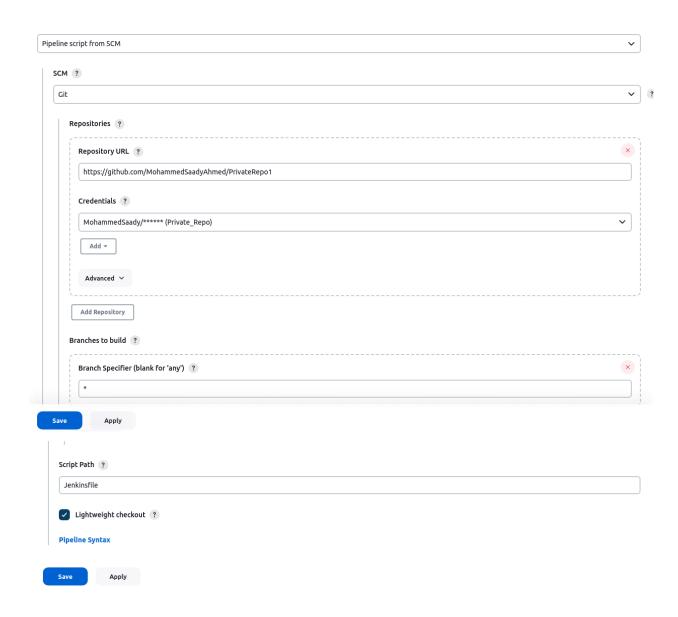# Jenkins Projects

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

```
Seen 1 remote branch
 > git show-ref --tags -d # timeout=10
Checking out Revision acaad8bc5d3ccce98793be1e1612f91be3870782 (origin/main)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f acaad8bc5d3ccce98793be1e1612f91be3870782 # timeout=10
Commit message: "Add files via upload"
[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) ?

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)]

	Name ▽	Instance ID	Instance state ▽	Instance type ▽	Status check	Alarm status	Availability Zone ▽	Public IPv4 DNS ▽	Public IPv4 ... ▽	Elastic IP
☐	ec2-terraform1	i-0740c0940a51ddc6d	⊘ Running ⊕⊖	t2.micro	⊘ 2/2 checks passed	No alarms ＋	us-east-1a	–	–	–

⟨ 1 ⟩

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)

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:14:64:01:20:47:1b: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 SHA256:2jU5t5HTVZYyrj2AeobN1hTWbGsdgMU/V8FJnwXXEeY root@ip-10-0-0-80 (DSA)
<14>Jul  7 15:37:51 cloud-init: 256 SHA256:MJztbsSgWnwQKy26kcogwBjeWZCXmx4obL4W2vbydEg root@ip-10-0-0-80 (ECDSA)
<14>Jul  7 15:37:51 cloud-init: 256 SHA256:HjERnAEUwU9EOuFIR66x0xAsUzol1i2TRn7hb69zWIE root@ip-10-0-0-80 (ED25519)
<14>Jul  7 15:37:51 cloud-init: 3072 SHA256:nigFfIImoHh9aUZrtRBDtyv68xOFipwrkM8n4c2AW0o 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 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBB+XKFwDVtAzTmztnjEo4MKfRGKLM21kTjDmI2r4cNWL73Q/jhxvSmqgQK2tazauIVRUXj4U3H0V9KZRFBNRB68= root@ip-10
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIB/mFMcb4kNiVW7S50RoLwxMRNVa/VhsVlqwT0AAVlh9 root@ip-10-0-0-80
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQCcn+gwd6iBy6uBcVtPose1TySDPY4OktYZi9XduRn5U+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 DataSourceEc2Local.  Up 63.38 seconds
[ [0;32m  OK  [0m] Finished [0;1;39mExecute cloud user/final scripts[0m.
[ [0;32m  OK  [0m] Reached target [0;1;39mCloud-init target[0m.
```

EC2 ＞ Instances ＞ i-08ee69172200574a7

Instance summary for i-08ee69172200574a7 (ec2-slave) Info
Updated less than a minute ago

Connect Instance state ▼ Actions ▼

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	
Answer private resource DNS name –	**Instance type** t2.micro	**Elastic IP addresses** –
Auto-assigned IP address ☐ 3.92.55.12 [Public IP]	**VPC ID** ☐ vpc-080e53b17a0774fdf (VPC1) ↗	**AWS Compute Optimizer finding** ⓘ Opt-in to AWS Compute Optimizer for recommendations. | Learn more ↗
IAM Role –	**Subnet ID** ☐ subnet-091cb504003166036 (subnet jenkins) ↗	**Auto Scaling Group name** –
IMDSv2 Optional		