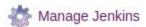# ASSESSMENT - 19

CI/CD

1. **Create 2 users: developer1, developer2. The developer1 should be able to build job1 only and can't change the job configuration. The developer2 can configure and build the job2, also he is able to view job1 but can't build/configure it.**

Manage Jenkins

Manage Users
Create/delete/modify users that can log in to this Jenkins

Create User

Create User

Username:	developer1
Password:	••••••••••
Confirm password:	••••••••••
Full name:	developer1
E-mail address:	developer1@gmail.com

Create User

Create User

Username:	developer2
Password:	••••••••••
Confirm password:	••••••••••
Full name:	developer2
E-mail address:	developer2@gmail.com

Create User

Users

These users can log into Jenkins. This is a sub set of this list, which also contains auto-created use
have no direct Jenkins access.

User ID	
admin	admin
▼ developer1	developer1
developer2	developer2

Enter an item name

job1

» *Required field*

Freestyle project

This is the central feature of Jenkins. Jenkins will build your project, co
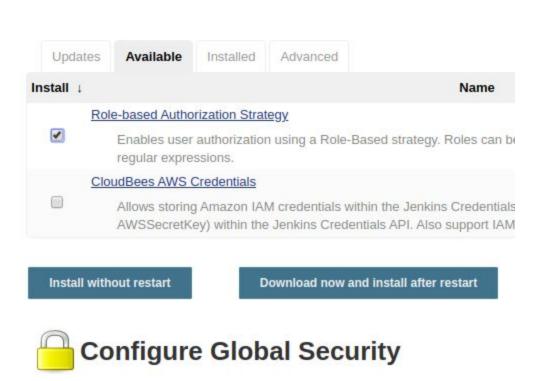something other than software build.

Enter an item name

job2

» *Required field*

Freestyle project

This is the central feature of Jenkins. Jenkins will build your project,
something other than software build.

Updates	**Available**	Installed	Advanced

Install ↓	Name

Role-based Authorization Strategy

☑ Enables user authorization using a Role-Based strategy. Roles can be regular expressions.

CloudBees AWS Credentials

☐ Allows storing Amazon IAM credentials within the Jenkins Credentials AWSSecretKey) within the Jenkins Credentials API. Also support IAM

Install without restart   **Download now and install after restart**

🔒 Configure Global Security

☑ Enable security

◉ Role-Based Strategy

Save   **Apply**

🔒 Manage and Assign Roles

Manage Roles
Manage Roles

Assign Roles
Assign Roles

Role Strategy Macros
Provides info about macro usage and available macros

Manage Roles

Global roles

Role	Overall		Credentials		
	Administer	Read	Create	Delete	ManageDo
☒ admin	☑	☑	☑	☑	☑
☒ roles_for_developers	☐	☑	☐	☐	☐

Item roles

Role	Pattern	Credentials					Job							
		Create	Delete	ManageDomains	Update	View	Build	Cancel	Configure	Create	Delete	Discover	Move	Read
☒ developer1	"job1"	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☑
☒ developer2	"job2"	☐	☐	☐	☐	☐	☑	☐	☑	☐	☐	☐	☐	☑
☒ developer2-sec	"job1"	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☑

Assign Roles
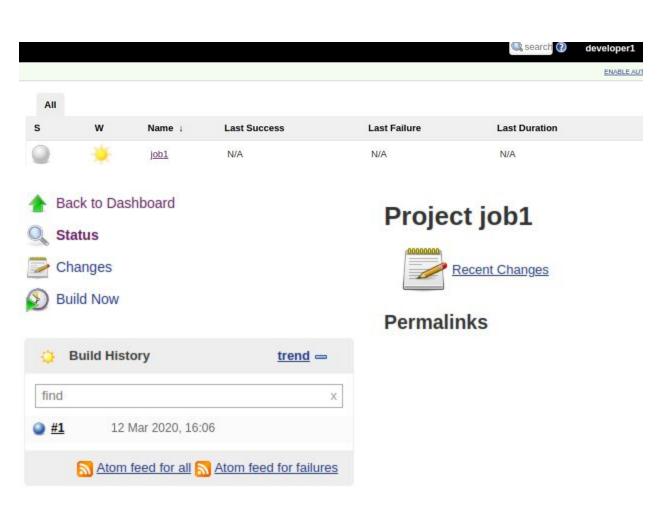
Global roles

	User/group	admin	roles_for_developers	
☒	👤 admin	☑	☐	☒
☒	👤 developer1	☐	☑	☒
☒	👤 developer2	☐	☑	☒

Item roles

	User/group	developer1	developer2	developer2-sec	
☒	👤 developer1	☑	☐	☐	☒
☒	👤 developer2	☐	☑	☑	☒
☒	Anonymous	☐	☐	☐	☒

All					
S	**W**	**Name** ↓	**Last Success**	**Last Failure**	**Last Duration**
⚪	☀	job1	N/A	N/A	N/A

🔼 **Back to Dashboard**

🔍 **Status**

📝 **Changes**

🔄 **Build Now**

Project job1

📝 Recent Changes

Permalinks

⚙ **Build History**	**trend** ━
find ⎵ x	
🔵 #1	12 Mar 2020, 16:06

📶 Atom feed for all 📶 Atom feed for failures

All					
S	**W**	**Name** ↓	**Last Success**	**Last Failure**	**Last Duration**
🔵	☀	job1	2 min 10 sec - #1	N/A	62 ms
⚪	☀	job2	N/A	N/A	N/A

Back to Dashboard

Status

Changes

Build Now

Configure

Rename

Project job2

Recent Changes

Permalinks

☼ **Build History**	trend —
find	X
🔵 **#1**	12 Mar 2020, 16:10

📶 Atom feed for all 📶 Atom feed for failures

Back to Dashboard

Status

Changes

Project job1

Recent Changes

Permalinks

- Last build (#1), 4 min 17 sec ago
- Last stable build (#1), 4 min 17 sec ago
- Last successful build (#1), 4 min 17 sec ago
- Last completed build (#1), 4 min 17 sec ago

☼ **Build History**	trend —
find	X
🔵 **#1**	12 Mar 2020, 16:06

📶 Atom feed for all 📶 Atom feed for failures

2. Create a Jenkins Job to create a calculator. It should give you a dropdown to ask Addition, Subtraction, Multiplication or Division and email the results.
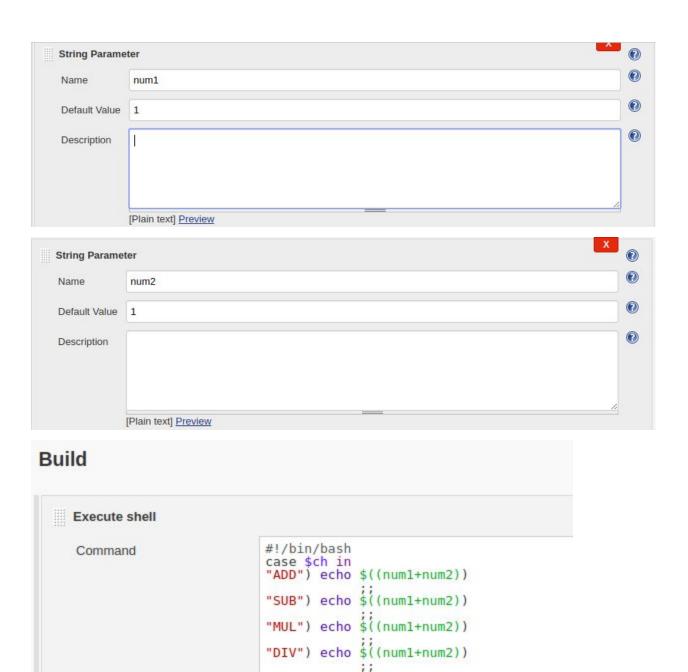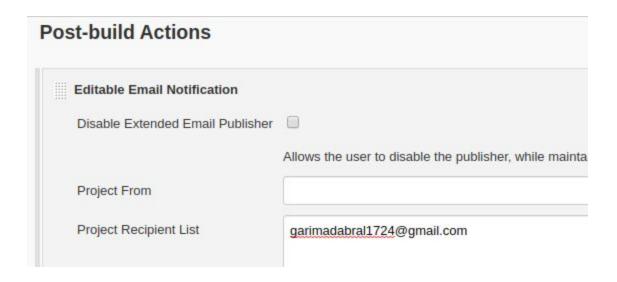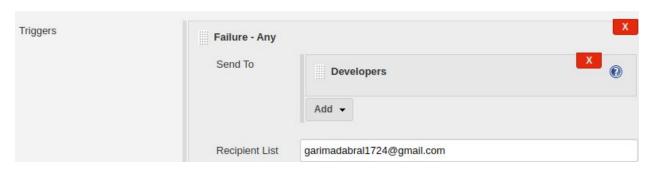*Hint: Plugin Used (Environment Injector, Extended Email Notification)*
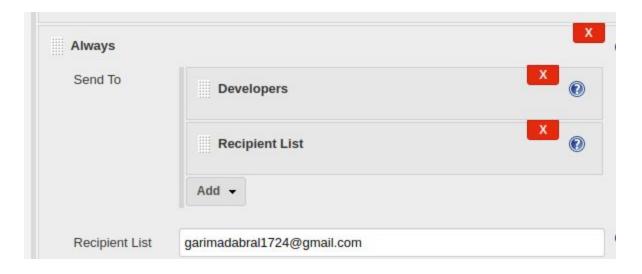
Extended E-mail Notification

SMTP server	smtp.gmail.com
Default user E-mail suffix	

☑ Use SMTP Authentication

User Name	garimadabral1724@gmail.com
Password	••••••••••

Use SSL	☑
SMTP port	465
Charset	UTF-8
Additional accounts	Add
Default Content Type	Plain Text (text/plain)

☐ Use List-ID E-mail Header

☐ Add 'Precedence: bulk' E-mail Header

Default Recipients	garimadabral1724@gmail.com

☑ This project is parameterised

Choice Parameter   X

Name	ch1
Choices	ADD SUB MUL DIV

String Parameter   ✕

Name	num1
Default Value	1
Description	

[Plain text] Preview

String Parameter   ✕

Name	num2
Default Value	1
Description	

[Plain text] Preview

Build

Execute shell

Command

```bash
#!/bin/bash
case $ch in
"ADD") echo $((num1+num2))
       ;;
"SUB") echo $((num1+num2))
       ;;
"MUL") echo $((num1+num2))
       ;;
"DIV") echo $((num1+num2))
       ;;
```

Post-build Actions

Editable Email Notification

Disable Extended Email Publisher ☐

Allows the user to disable the publisher, while mainta

Project From [   ]

Project Recipient List   garimadabral1724@gmail.com

Triggers

Failure - Any   [X]

Send To
    Developers   [X] ⑦

Add ▾

Recipient List   garimadabral1724@gmail.com

Always   [X]

Send To
    Developers   [X] ⑦

    Recipient List   [X] ⑦

Add ▾

Recipient List   garimadabral1724@gmail.com

Home

Personal info

Data & personalisation

Security

People & sharing

Payments & subscriptions

Less secure app access

Your account is vulnerable because you allow apps
use less secure sign-in technology to access your
your account secure, Google will automatically turn
it's not being used. Find out more

⚠ On

Turn off access (recommended)

🔵 Console Output

```
Started by user admin
Running as SYSTEM
[EnvInject] - Loading node environment variables.
Building in workspace /var/lib/jenkins/workspace/calculator
No emails were triggered.
[calculator] $ /bin/bash /tmp/jenkins9855001273763297179.sh
16
Email was triggered for: Always
Sending email for trigger: Always
Sending email to: garimadabral1724@gmail.com
Finished: SUCCESS
```

calculator - Build # 3 - Successful! Inbox ×

address not configured yet <garimadabral1724@gmail.com>
to me ▾

calculator - Build # 3 - Successful:

Check console output at http://localhost:8080/job/calculator/3/ to view the results.

3. Create jenkins parameterized job which on selecting the different Env. will display different web pages by nginx.

```
garima@garima:~$ mkdir jenkins_dir
garima@garima:~$ cd jenkins_dir/
garima@garima:~/jenkins_dir$ vim env1.html
garima@garima:~/jenkins_dir$ cat env1.html
hello env1
garima@garima:~/jenkins_dir$ vim env2.html
garima@garima:~/jenkins_dir$ cat env2.html
hello env2
garima@garima:~/jenkins_dir$ vim env3.html
garima@garima:~/jenkins_dir$ cat env3.html
hello env3
garima@garima:~/jenkins_dir$
```

```
garima@garima:~$ ls -ld jenkins_dir/
drwxr-xr-x 2 garima garima 4096 Mar 12 17:55 jenkins_dir/
garima@garima:~$ chmod 777 jenkins_dir/
garima@garima:~$ ls -ld jenkins_dir/
drwxrwxrwx 2 garima garima 4096 Mar 12 17:55 jenkins_dir/
garima@garima:~$ cd jenkins_dir/
garima@garima:~/jenkins_dir$ ll
total 20
drwxrwxrwx  2 garima garima 4096 Mar 12 17:55 ./
drwxr-xr-x 40 garima garima 4096 Mar 12 17:55 ../
-rw-r--r--  1 garima garima   11 Mar 12 17:54 env1.html
-rw-r--r--  1 garima garima   11 Mar 12 17:55 env2.html
-rw-r--r--  1 garima garima   11 Mar 12 17:55 env3.html
garima@garima:~/jenkins_dir$ chmod 777 env1.html env2.html env3.html
garima@garima:~/jenkins_dir$ ll
total 20
drwxrwxrwx  2 garima garima 4096 Mar 12 17:55 ./
drwxr-xr-x 40 garima garima 4096 Mar 12 17:55 ../
-rwxrwxrwx  1 garima garima   11 Mar 12 17:54 env1.html*
-rwxrwxrwx  1 garima garima   11 Mar 12 17:55 env2.html*
-rwxrwxrwx  1 garima garima   11 Mar 12 17:55 env3.html*
```

```
garima@garima:~$ cd jenkins_dir/
garima@garima:~/jenkins_dir$ ls
env1.html  env2.html  env3.html
garima@garima:~/jenkins_dir$ mkdir html
garima@garima:~/jenkins_dir$ ls
env1.html  env2.html  env3.html  html
garima@garima:~/jenkins_dir$ ll
total 24
drwxrwxrwx   3 garima garima 4096 Mar 13 10:27 ./
drwxr-xr-x  40 garima garima 4096 Mar 12 18:10 ../
-rwxrwxrwx   1 garima garima   11 Mar 12 17:54 env1.html*
-rwxrwxrwx   1 garima garima   11 Mar 12 17:55 env2.html*
-rwxrwxrwx   1 garima garima   11 Mar 12 17:55 env3.html*
drwxr-xr-x   2 garima garima 4096 Mar 13 10:27 html/
garima@garima:~/jenkins_dir$ chmod 777 html/
garima@garima:~/jenkins_dir$ ll
total 24
drwxrwxrwx   3 garima garima 4096 Mar 13 10:27 ./
drwxr-xr-x  40 garima garima 4096 Mar 12 18:10 ../
-rwxrwxrwx   1 garima garima   11 Mar 12 17:54 env1.html*
-rwxrwxrwx   1 garima garima   11 Mar 12 17:55 env2.html*
-rwxrwxrwx   1 garima garima   11 Mar 12 17:55 env3.html*
drwxrwxrwx   2 garima garima 4096 Mar 13 10:27 html/
garima@garima:~/jenkins_dir$
```

```
garima@garima:/etc/nginx/sites-available$ sudo vim newfile
[sudo] password for garima:
garima@garima:/etc/nginx/sites-available$ cat newfile
server{
        listen 80;
        server_name garima.com;
        root /home/garima/jenkins_dir/html;
        index env1.html env2.html env3.html;
}

garima@garima:/etc/nginx/sites-available$
```

```
garima@garima:/etc/nginx/sites-enabled$ sudo ln -s /etc/nginx/sites-available/ne
wfile .
garima@garima:/etc/nginx/sites-enabled$
```

```
                garima@garima: /jenkins_dir                    garima@garima:/etc
127.0.0.1       localhost abc.com www.abc.com xyz.com loadbalancing.com www.boot
camp.com garima.com
```
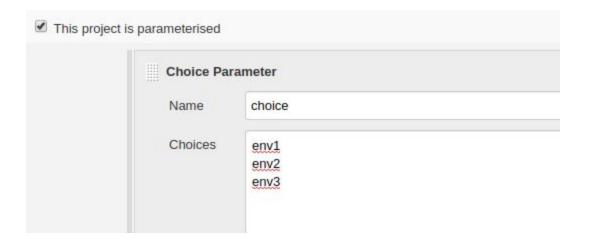
Enter an item name

ques3

» Required field

Freestyle project

This is the central feature of Jenkins. Jenkins will build your project, com
something other than software build.

☑ This project is parameterised

Choice Parameter

Name   choice

Choices   env1
              env2
              env3

Build

Execute shell

Command

```bash
#!/bin/bash
rm -f /home/garima/jenkins_dir/html/*
case $choice in
"env1") cp /home/garima/jenkins_dir/env1.html /home/garima/jenkins_dir/html/
    ;;
"env2") cp /home/garima/jenkins_dir/env2.html /home/garima/jenkins_dir/html/
    ;;
"env3") cp /home/garima/jenkins_dir/env3.html /home/garima/jenkins_dir/html/
    ;;
esac

curl garima.com
```

Console Output

Started by user <u>admin</u>
Running as SYSTEM
[EnvInject] - Loading node environment variables.
Building in workspace /var/lib/jenkins/workspace/ques3
[ques3] $ /bin/bash /tmp/jenkins1642996643382158472.sh

% Total		% Received % Xferd		Average Speed		Time	Time	Time	Current
				Dload	Upload	Total	Spent	Left	Speed
0	0	0	0	0	0	0	0 --:--:-- --:--:-- --:--:--			0
100	11	100	11	0	0	2750	0 --:--:-- --:--:-- --:--:--			2750

hello env1
Finished: SUCCESS

Console Output

Started by user <u>admin</u>
Running as SYSTEM
[EnvInject] - Loading node environment variables.
Building in workspace /var/lib/jenkins/workspace/ques3
[ques3] $ /bin/bash /tmp/jenkins3442516356751823496.sh

% Total		% Received % Xferd		Average Speed		Time	Time	Time	Current
				Dload	Upload	Total	Spent	Left	Speed
0	0	0	0	0	0	0	0 --:--:-- --:--:-- --:--:--			0
100	11	100	11	0	0	2750	0 --:--:-- --:--:-- --:--:--			2750

hello env2
Finished: SUCCESS
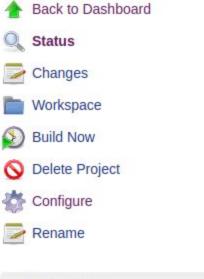
Console Output

```
Started by user admin
Running as SYSTEM
[EnvInject] - Loading node environment variables.
Building in workspace /var/lib/jenkins/workspace/ques3
[ques3] $ /bin/bash /tmp/jenkins14490471627670190815.sh
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed

    0     0    0     0    0     0      0      0 --:--:-- --:--:-- --:--:--     0
  100    11  100    11    0     0   2200      0 --:--:-- --:--:-- --:--:--  2200
hello env3
Finished: SUCCESS
```
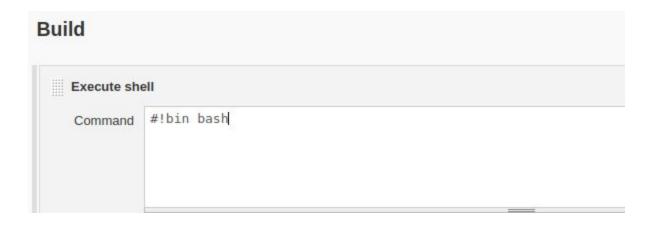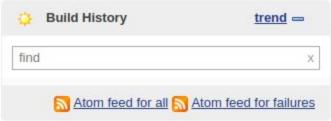
4. Create a job which on its failure will trigger another job.

Enter an item name

ques4

» Required field

Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, com
something other than software build.

Build

▦ **Execute shell**

Command   #!bin bash

Post-build Actions

Build other projects

Projects to build   calculator

    ○ Trigger only if build is stable

    ○ Trigger even if the build is unstable

    ◉ Trigger even if the build fails

Add post-build action ▾

Back to Dashboard

Status

Changes

Workspace

Build Now

Delete Project

Configure

Rename

☀ **Build History**   **trend** ▬

find   X

🔊 Atom feed for all 🔊 Atom feed for failures

Project ques4

Workspace

Recent Changes
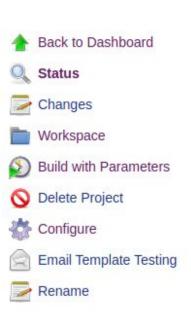
Downstream Projects

🔵calculator

Permalinks

🔴 Console Output

Started by user <u>admin</u>
Running as SYSTEM
[EnvInject] - Loading node environment variables.
Building in workspace /var/lib/jenkins/workspace/ques4
[ques4] $ bin bash /tmp/jenkins5140476536883826814.sh
FATAL: command execution failed
java.io.IOException: error=2, No such file or directory
        at java.base/java.lang.ProcessImpl.forkAndExec(Native I
        at java.base/java.lang.ProcessImpl.<init>(ProcessImpl.
        at java.base/java.lang.ProcessImpl.start(ProcessImpl.j
        at java.base/java.lang.ProcessBuilder.start(ProcessBui
Caused: java.io.IOException: Cannot run program "bin" (in dire
No such file or directory

        at hudson.model.AbstractBuild$AbstractBuildExecu
        at hudson.model.Run.execute(Run.java:1853)
        at hudson.model.FreeStyleBuild.run(FreeStyleBuil
        at hudson.model.ResourceController.execute(Resou
        at hudson.model.Executor.run(Executor.java:427)
Build step 'Execute shell' marked build as failure
Triggering a new build of <u>calculator</u>
Finished: FAILURE

Back to Dashboard

Status

Changes

Workspace

Build with Parameters

Delete Project

Configure

Email Template Testing

Rename

🌟 **Build History**	trend —

find   X

🔵 **#4**   12 Mar 2020, 17:10

Project calculator

Workspace

Recent Changes

Upstream Projects

🔴 ques4

Permalinks

- Last build (#4), 37 sec ago
- Last stable build (#4), 37 sec ago
- Last successful build (#4), 37 sec ago

🔵 Console Output

```
Started by upstream project "ques4" build number 1
originally caused by:
 Started by user admin
Running as SYSTEM
[EnvInject] - Loading node environment variables.
Building in workspace /var/lib/jenkins/workspace/calculator
No emails were triggered.
[calculator] $ /bin/bash /tmp/jenkins2270695509533536709.sh
2
Email was triggered for: Always
Sending email for trigger: Always
Sending email to: garimadabral1724@gmail.com
Finished: SUCCESS
```
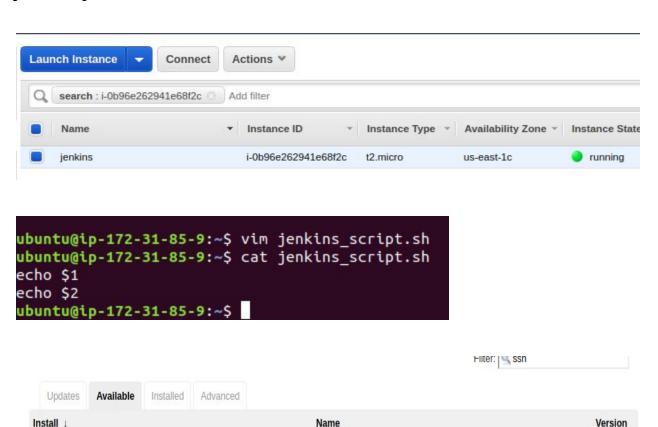
calculator - Build # 4 - Successful! Inbox ×

address not configured yet <garimadabral1724@gmail.com>
to me ▾

calculator - Build # 4 - Successful:

Check console output at http://localhost:8080/job/calculator/4/ to view the results.

5. Create a job which can set a cron job on another server. This server contains a script on its home directory and the script will print the two string parameters which will be given by the jenkins job.


```
ubuntu@ip-172-31-85-9:~$ vim jenkins_script.sh
ubuntu@ip-172-31-85-9:~$ cat jenkins_script.sh
echo $1
echo $2
ubuntu@ip-172-31-85-9:~$
```

Filter: | 🔍 ssh

	Updates	**Available**	Installed	Advanced

Install ↓	Name	Version
☑	**SSH** This plugin executes shell commands remotely using SSH protocol.	2.6.1

Manage Jenkins

Configure System
Configure global settings and paths.

SSH plugin

☑

This plugin executes shell commands remotely using SSH protocol.

2.6.1

Uninstall

Credentials

T	P	Store ↓	Dom

Icon: S M L
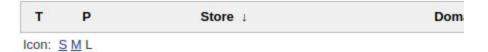
Stores scoped to Jenkins

P	Store ↓
Jenkins	(global)

System

Domain
Global credentials (unrestricted)   C

Icon: S M L

⬆ Back to Global credentials (unrestricted)

🛠 **Update**

🚫 Delete

⚒ Move

Scope	Global (Jenkins, nodes, items, all child items, etc)
ID	ssh-54.89.223.233
Description	ssh to jenkins ec2-server
Username	ubuntu
Private Key	● Enter directly

Key

🔒 Concealed for Confidentiality

Passphrase

Save

⬆ Back to Global credentials (unrestricted)

🛠 Update

🚫 Delete

⚒ Move

🔑 ubuntu (ssh to jenkins ec2-server)

ssh to jenkins ec2-server

Usage

This credential has not been recorded as used anywhere.

Note: usage tracking requires the cooperation of plugins and consequently may not track every use.

Manage Jenkins

Warnings have been published for the following currently installed components.

Go to plugin manager

Environment Injector Plugin 2.3.0:
 Exposure of sensitive build variables stored by EnvInject 1.90 and earlier
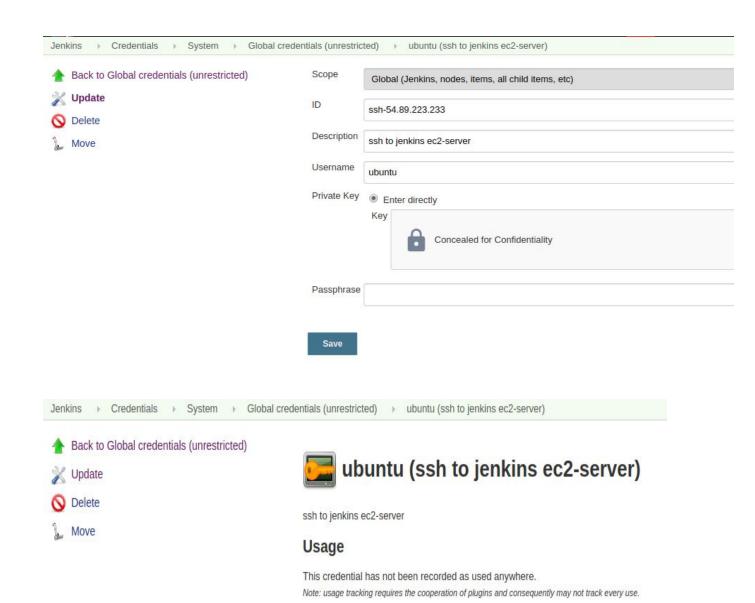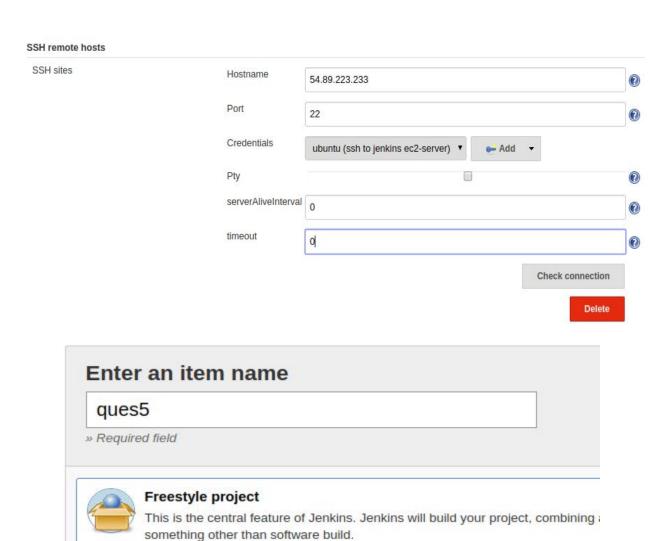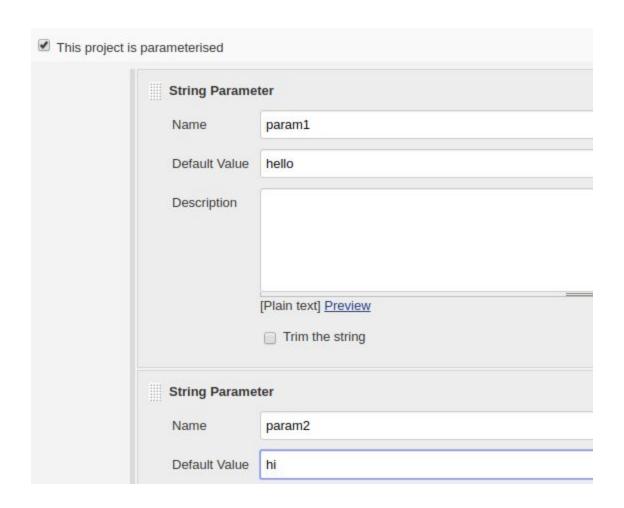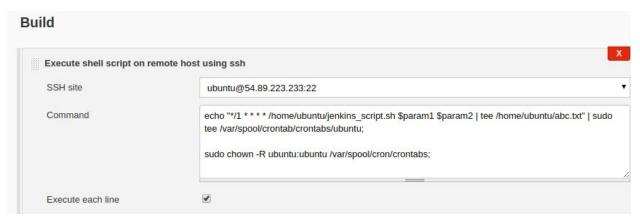
Configure System
Configure global settings and paths.

SSH remote hosts

SSH sites

Hostname	54.89.223.233
Port	22
Credentials	ubuntu (ssh to jenkins ec2-server) ▾ 🔑 Add ▾
Pty	☐
serverAliveInterval	0
timeout	0

Check connection

Delete

Enter an item name

ques5

» Required field

Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining
something other than software build.

☑ This project is parameterised

String Parameter

Name	param1
Default Value	hello

Description

[Plain text] Preview

☐ Trim the string

String Parameter

Name	param2
Default Value	hi

Build

Execute shell script on remote host using ssh   X

SSH site	ubuntu@54.89.223.233:22 ▼
Command	echo "*/1 * * * * /home/ubuntu/jenkins_script.sh $param1 $param2 | tee /home/ubuntu/abc.txt" | sudo tee /var/spool/crontab/crontabs/ubuntu; sudo chown -R ubuntu:ubuntu /var/spool/cron/crontabs;
Execute each line	☑

Execute shell script on remote host using ssh

SSH site	ubuntu@54.89.223.233:22
Command	./jenkins_script.sh $param1 $param2 > abc.txt echo "*/1 * * * * /home/ubuntu/jenkins_script.sh $param1 $param2" | sudo tee /var/spool/cron/crontabs/ubuntu; sudo chown -R ubuntu:ubuntu /var/spool/cron/crontabs/

```
ubuntu@ip-172-31-85-9:~$ crontab -l
*/1 * * * * /home/ubuntu/jenkins_script.sh
ubuntu@ip-172-31-85-9:~$ chmod +x jenkins_script.sh
ubuntu@ip-172-31-85-9:~$ ls
abc.txt   jenkins_script.sh
ubuntu@ip-172-31-85-9:~$ cat abc.txt


ubuntu@ip-172-31-85-9:~$ cat jenkins_script.sh
echo $1
echo $2
ubuntu@ip-172-31-85-9:~$
```

🔵 Console Output

```
Started by user admin
Running as SYSTEM
[EnvInject] - Loading node environment variables.
Building in workspace /var/lib/jenkins/workspace/ques5
[SSH] commands:
param1="3"
param2="9"

./jenkins_script.sh $param1 $param2 > abc.txt
echo "*/1 * * * * /home/ubuntu/jenkins_script.sh $param1 $param2" | sudo tee /var/spool/cron/crontabs/ubuntu;

sudo chown -R ubuntu:ubuntu /var/spool/cron/crontabs/

[SSH] executing...
*/1 * * * * /home/ubuntu/jenkins_script.sh

[SSH] completed
[SSH] exit-status: 0

Finished: SUCCESS
```

Console Output

```
Started by user admin
Running as SYSTEM
[EnvInject] - Loading node environment variables.
Building in workspace /var/lib/jenkins/workspace/ques5
[SSH] commands:
param1="hello"
param2="hi"

echo "*/1 * * * * /home/ubuntu/jenkins_script.sh $param1 $param2 | tee /home/ubuntu/abc.txt" | sudo tee
/var/spool/cron/crontabs/ubuntu;

sudo chown -R ubuntu:ubuntu /var/spool/cron/crontabs;

[SSH] executing...
*/1 * * * * /home/ubuntu/jenkins_script.sh   | tee /home/ubuntu/abc.txt

[SSH] completed
[SSH] exit-status: 0

Finished: SUCCESS
```

6. **Create a job in which: Pull Dockerfile from GitHub, build it and push to Dockerhub. The docker image should have the tag: git commit id.**

```
garima@garima:~/jenkins_Dockerfile_repo$ cat Dockerfile
FROM ubuntu
MAINTAINER garima

RUN apt-get update -y
RUN apt-get install nginx -y
CMD ["echo","Image Created"]
CMD ["nginx","-g", "daemon off;"]
```

```
garima@garima:~$ git clone https://github.com/ga-sudo/jenkins_Dockerfile_repo.git
t
Cloning into 'jenkins_Dockerfile_repo'...
warning: You appear to have cloned an empty repository.
garima@garima:~$ cd jenkins_Dockerfile_repo/
garima@garima:~/jenkins_Dockerfile_repo$ ls
garima@garima:~/jenkins_Dockerfile_repo$ cp /home/garima/Dockerfile .
garima@garima:~/jenkins_Dockerfile_repo$ ls
Dockerfile
```

```
garima@garima:~/jenkins_Dockerfile_repo$ git add .
garima@garima:~/jenkins_Dockerfile_repo$ git commit -m "commit for dockerfile"
[master (root-commit) ee2fb05] commit for dockerfile
 1 file changed, 7 insertions(+)
 create mode 100755 Dockerfile
garima@garima:~/jenkins_Dockerfile_repo$ git push origin master
Username for 'https://github.com': ga-sudo
Password for 'https://ga-sudo@github.com':
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 319 bytes | 319.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/ga-sudo/jenkins_Dockerfile_repo.git
 * [new branch]      master -> master
```

```
garima@garima:~/jenkins_Dockerfile_repo$ git log
commit d986989def681d215011495e9bc3f0945055f10a (HEAD -> master, origin/master)
Author: ga-sudo <garima.dabral@tothenew.com>
Date:   Mon Mar 16 11:56:00 2020 +0530

    new commit for Dockerfile
```

```
File  Edit  View  Search  Terminal  Help
garima@garima:~$ sudo usermod -aG docker jenkins
[sudo] password for garima:
garima@garima:~$ id jenkins
uid=125(jenkins) gid=129(jenkins) groups=129(jenkins),998(docker)
garima@garima:~$
```
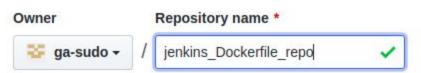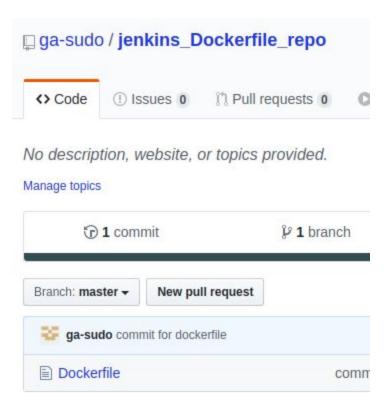
```
garima@garima:/var/lib/jenkins/workspace/ques6$ sudo service jenkins restart
garima@garima:/var/lib/jenkins/workspace/ques6$
```
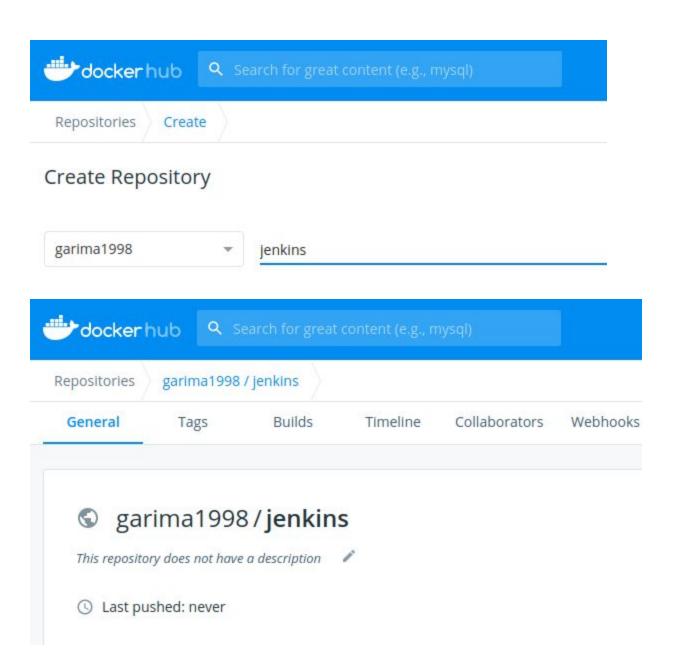
Create a new repository

A repository contains all project files, including the revision history. Already have a pro
Import a repository.

Owner   **Repository name** *

🟫 ga-sudo ▾ / jenkins_Dockerfile_repo   ✔

Great repository names are short and memorable. Need inspiration? How about **solid**

📖 ga-sudo / **jenkins_Dockerfile_repo**

<> Code   ⓘ Issues **0**   ⁇ Pull requests **0**   ▶

No description, website, or topics provided.

Manage topics

🕙 **1** commit   ⑂ **1** branch

Branch: **master** ▾   **New pull request**

🟫 **ga-sudo** commit for dockerfile

📄 Dockerfile   comm

docker hub   Q Search for great content (e.g., mysql)

Repositories   Create

Create Repository

| garima1998 ▼ | jenkins |

docker hub   Q Search for great content (e.g., mysql)

Repositories   garima1998 / jenkins

General   Tags   Builds   Timeline   Collaborators   Webhooks

🌐 **garima1998 / jenkins**

This repository does not have a description   ✏️

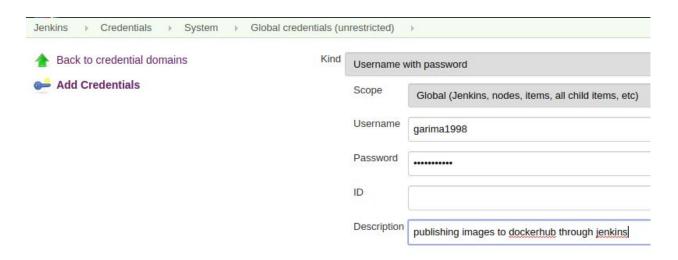🕐 Last pushed: never

Manage Jenkins

Warnings have been published for the following currently installed components.   **Go to pl**

Environment Injector Plugin 2.3.0:
    Exposure of sensitive build variables stored by EnvInject 1.90 and earlie

Updates	**Available**	Installed	Advanced

Install ↓	**Name**
☐	**CloudBees Disk Usage Simple**
	Alternative to disk-usage plugin, to compute in the background per job disk u
☑	**CloudBees Docker Build and Publish**
	This plugin enables building Dockerfile based projects, as well as publishing

Jenkins ▸ Credentials ▸ System ▸ Global credentials (unrestricted) ▸

🔼 **Back to credential domains**

🗝️ **Add Credentials**

Kind	Username with password

Scope	Global (Jenkins, nodes, items, all child items, etc)
Username	garima1998
Password	•••••••••••
ID	
Description	publishing images to dockerhub through jenkins

🏰 Global credentials (unrestricted)

Credentials that should be available irrespective of domain specification to requirements matching.

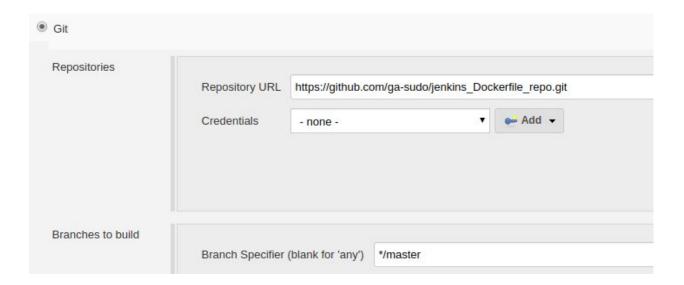|	ID	Name	Kind	Description	
🗝️	ssh-54.89.223.233	ubuntu (ssh to jenkins ec2-server)	SSH Username with private key	ssh to jenkins ec2-server	🛠️
🔑	1b5771eb-b953-4ff1-9f51-291b79fd87b1	garima1998/****** (publishing images to dockerhub through jenkins)	Username with password	publishing images to dockerhub through jenkins	🛠️

Enter an item name

ques6

» Required field

Freestyle project

This is the central feature of Jenkins. Jenkins will build your project, combining a something other than software build.

○ Git

Repositories		
	Repository URL	https://github.com/ga-sudo/jenkins_Dockerfile_repo.git
	Credentials	- none - ▾ 🔑 Add ▾

Branches to build	
	Branch Specifier (blank for 'any') */master

Build

Docker Build and Publish

Repository Name	garima1998/jenkins
Tag	${GIT_COMMIT}
Docker Host URI	
Server credentials	- none - ▾ 🔑 Add ▾
Docker registry URL	
Registry credentials	garima1998/****** (publishing images to dockerhub through jenkins) ▾ 🔑 Add ▾

⬤ Console Output

Started by user <u>admin</u>
Running as SYSTEM
[EnvInject] - Loading node environment variables.
Building in workspace /var/lib/jenkins/workspace/ques6
No credentials specified
 > git rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
 > git config remote.origin.url <u>https://github.com/ga-sudo/jenkins_Dockerfile_repo</u> # timeout=10
Fetching upstream changes from <u>https://github.com/ga-sudo/jenkins_Dockerfile_repo</u>
 > git --version # timeout=10
 > git fetch --tags --progress -- <u>https://github.com/ga-sudo/jenkins_Dockerfile_repo</u>

150a3ca92d85: Layer already exists
1852b2300972: Layer already exists
8c98131d2d1d: Layer already exists
03c9b9f537a4: Layer already exists
2bf15f5b33f3: Layer already exists
cc4590d6a718: Layer already exists
latest: digest: sha256:c15dcc71266fd76ac27abe51af1001d87f907b3d11405bb2bc69ec99067781d7 size: 1576
Finished: SUCCESS

🌐 garima1998 / jenkins
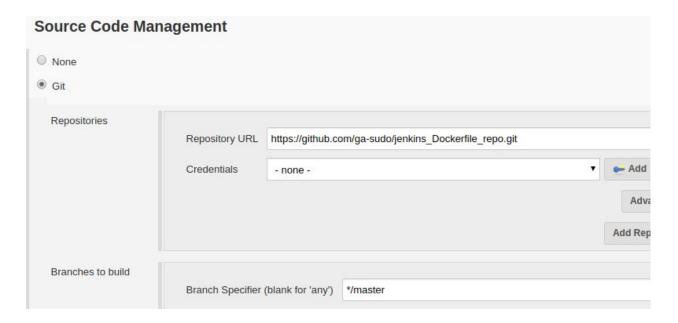
This repository does not have a description   ✏️

🕐 Last pushed: a few seconds ago
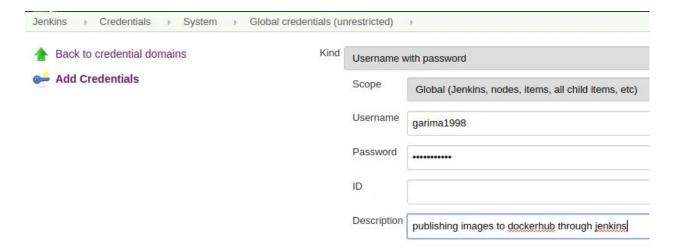
Tags

This repository contains 3 tag(s).

latest	🐧	🕐 a few seconds ago
9d56ffce0a62749973...	🐧	🕐 a few seconds ago

2nd way :

Enter an item name

ques6-ii

» Required field

Freestyle project

This is the central feature of Jenkins. Jenkins will build your proje[ct]
something other than software build.

Source Code Management

○ None

◉ Git

Repositories

Repository URL   https://github.com/ga-sudo/jenkins_Dockerfile_repo.git

Credentials   - none -   ▾   🔑 Add

Adva

Add Rep

Branches to build

Branch Specifier (blank for 'any')   */master

Build

Execute shell

Command
```
#!/bin/bash
pwd
ls
latest_commit_id=$(git log | head -1 |awk '{print $2}' )
echo "$latest_commit_id"
echo -e "Building Dockerfile\n"
docker build -t commit_id:${latest_commit_id} .
echo -e "Tagging Dockerfile\n"
docker tag commit_id:${latest_commit_id} garima1998/jenkins:${latest_commit_id}
echo -e "Pushing Dockerfile\n"
docker push garima1998/jenkins:${latest_commit_id}
```

🔼 Back to credential domains

🔑 Add Credentials

Kind	Username with password
Scope	Global (Jenkins, nodes, items, all child items, etc)
Username	garima1998
Password	•••••••••••
ID	
Description	publishing images to dockerhub through jenkins

🏰 Global credentials (unrestricted)

Credentials that should be available irrespective of domain specification to requirements matching.

	ID	Name	Kind	Description	
🔑	ssh-54.89.223.233	ubuntu (ssh to jenkins ec2-server)	SSH Username with private key	ssh to jenkins ec2-server	🛠
👤	1b5771eb-b953-4ff1-9f51-291b79fd87b1	garima1998/****** (publishing images to dockerhub through jenkins)	Username with password	publishing images to dockerhub through jenkins	🛠

```
File  Edit  View  Search  Terminal  Help
garima@garima:/var/lib/jenkins/workspace/ques6$ sudo su jenkins
[sudo] password for garima:
jenkins@garima:~/workspace/ques6$ cd
jenkins@garima:~$ docker login
Authenticating with existing credentials...
WARNING! Your password will be stored unencrypted in /var/lib/jenkins/.docker/co
nfig.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
jenkins@garima:~$
```


dockerhub Search for great content (e.g., mysql)   Explore   Repositories

Repositories > garima1998/jenkins > 9d56ffce0a6274997304647b6857e120364fb237

garima1998/jenkins:9d56ffce0a6274997304647b6857e120364fb237
DIGEST: sha256:c15dcc71266fd76ac27abe51af1001d87f907b3d11405bb2bc69ec99067781d7

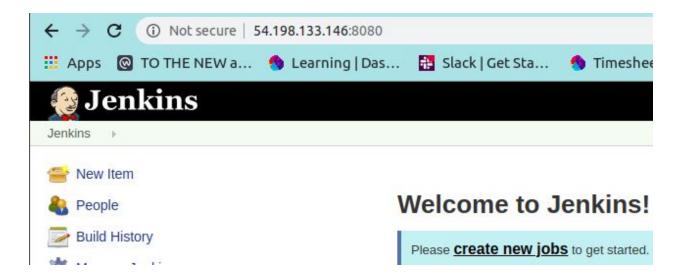| OS/ARCH	SIZE	LAST PUSHED
linux/amd64	69.84 MB	a minute ago by garima1998

7. **Host a static website on s3.**
   Its static content should be in git repo. When a person commits any change in the repo, the job should automatically reflect the changes in the s3 website.

   Install jenkins on ec2 server.

```
ubuntu@ip-172-31-47-29:~$ sudo apt install jenkins
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  daemon
The following NEW packages will be installed:
  daemon jenkins
0 upgraded, 2 newly installed, 0 to remove and 3 not upgraded.
Need to get 63.3 MB of archives.
After this operation, 63.8 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

```
ubuntu@ip-172-31-47-29:~$ sudo systemctl start jenkins
ubuntu@ip-172-31-47-29:~$ sudo systemctl status jenkins
● jenkins.service - LSB: Start Jenkins at boot time
   Loaded: loaded (/etc/init.d/jenkins; generated)
   Active: active (exited) since Sun 2020-03-22 05:45:44 UT
     Docs: man:systemd-sysv-generator(8)
    Tasks: 0 (limit: 1152)
   CGroup: /system.slice/jenkins.service
```

← → C ⓘ Not secure | 54.198.133.146:8080

▦ Apps @ TO THE NEW a... 🔷 Learning | Das... 🔴 Slack | Get Sta... 🔷 Timeshee

Jenkins

Jenkins ▸

🗃 New Item

👥 People

📝 Build History

Welcome to Jenkins!
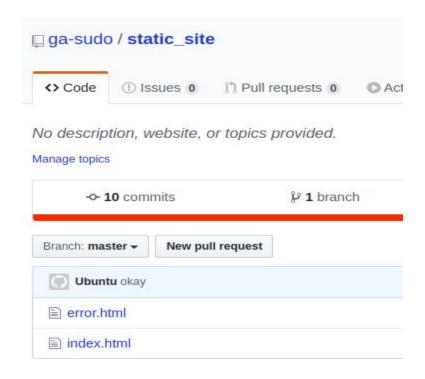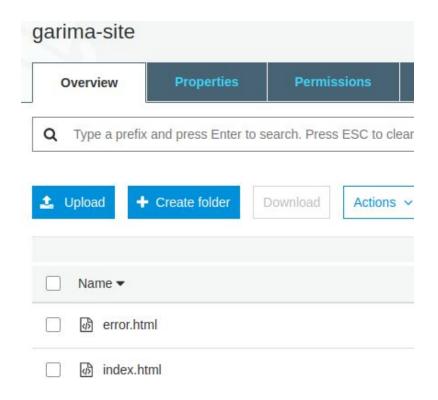
Please **create new jobs** to get started.

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository
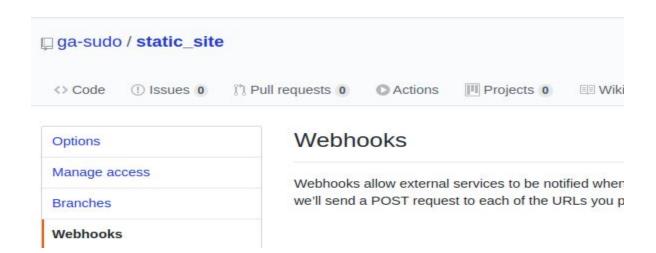Import a repository.

Owner   **Repository name** *

🗄 **ga-sudo ▾**   / | static_site   ✓ |

Great repository names are short and memorable. Need inspiration? How about **sturdy-fortnight**?

📖 ga-sudo / **static_site**

<> Code   ⓘ Issues **0**   ⑁ Pull requests **0**   ▶ Act

No description, website, or topics provided.

Manage topics

⟲ **10** commits	⑁ **1** branch

Branch: **master** ▾   **New pull request**

💬 **Ubuntu** okay

📄 error.html

📄 index.html

---

garima-site

Overview	**Properties**	**Permissions**	

🔍 Type a prefix and press Enter to search. Press ESC to clear

⬆ Upload   ➕ Create folder   Download   Actions ⌄

☐ Name ▾

☐ 🗋 error.html

☐ 🗋 index.html

← → C ⓘ Not secure | garima-site.s3-website-us-east-1.amazonaws.com

▦ Apps ⓦ TO THE NEW a... 🔹 Learning | Das... 🔹 Slack | Get Sta...

index page

ga-sudo / **static_site**

<> Code   ⓘ Issues **0**   ⑂ Pull requests **0**   ▶ Actions   ▥ Projects **0**   ▤ Wik

| Options |
| Manage access |
| Branches |
| **Webhooks** |

Webhooks

Webhooks allow external services to be notified when
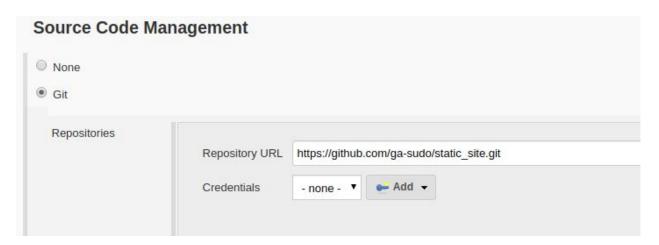we'll send a POST request to each of the URLs you p

Webhooks / **Manage webhook**

We'll send a POST request to the URL below with details of
data format you'd like to receive (JSON, x-www-form-urlen
developer documentation.

Payload URL *

http://54.198.133.146:8080/github-webhook/

Content type

application/x-www-form-urlencoded ⬍

Secret

Which events would you like to trigger this webhook?

◉ Just the push event.

◯ Send me **everything**.

◯ Let me select individual events.

☑ **Active**
   We will deliver event details when this hook is triggered.

Update webhook   **Delete webhook**

Enter an item name

ques7

» Required field

Freestyle project

This is the central feature of Jenkins. Jenkins will build your project, combinin
something other than software build.

Source Code Management

○ None

◉ Git

Repositories

Repository URL https://github.com/ga-sudo/static_site.git

Credentials - none - ▼ 🔑 Add ▼

Build Triggers

☐ Trigger builds remotely (e.g., from scripts)

☐ Build after other projects are built

☐ Build periodically

☑ GitHub hook trigger for GITScm polling

Build

Execute shell

Command
```
#!/bin/bash
aws s3 cp * s3://garima-site/
```

GitHub

GitHub Servers

Add GitHub Server ▾

Override Hook URL

☑ Specify another hook URL for GitHub configuration

http://54.198.133.146:8080/github-webhook/
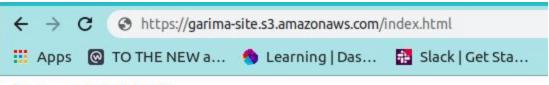
Shared secret

- none - ▾   🔑 Add ▾

```
ubuntu@ip-172-31-47-29:~/static_site$ echo "changes made to index file" > index.html
ubuntu@ip-172-31-47-29:~/static_site$ git add .
ubuntu@ip-172-31-47-29:~/static_site$ git commit -m "newly made commits"
[master a526740] newly made commits
 Committer: Ubuntu <ubuntu@ip-172-31-47-29.ec2.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

 1 file changed, 1 insertion(+), 1 deletion(-)
ubuntu@ip-172-31-47-29:~/static_site$ git push origin master
Username for 'https://github.com': ga-sudo
Password for 'https://ga-sudo@github.com':
Counting objects: 3, done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 316 bytes | 316.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/ga-sudo/static_site.git
   64359c7..a526740  master -> master
```

← → C 🌐 https://garima-site.s3.amazonaws.com/index.html

▦ Apps @ TO THE NEW a... 🌸 Learning | Das... 🔷 Slack | Get Sta...

changes made to index file