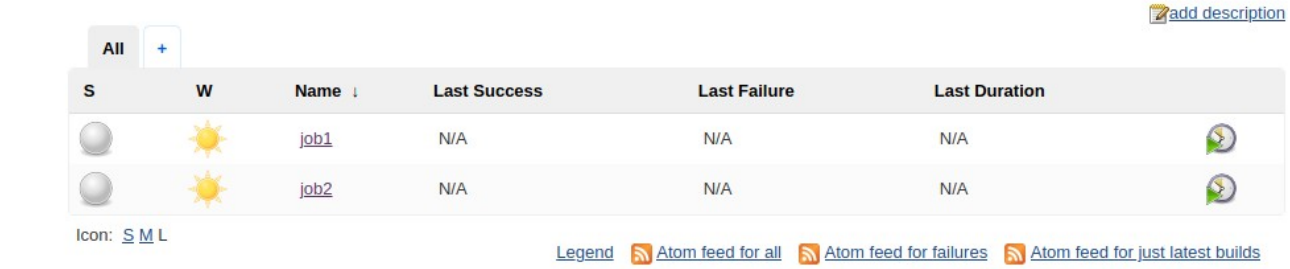
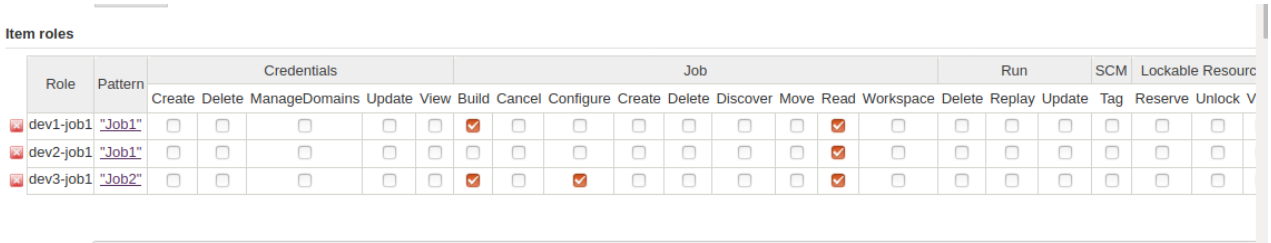
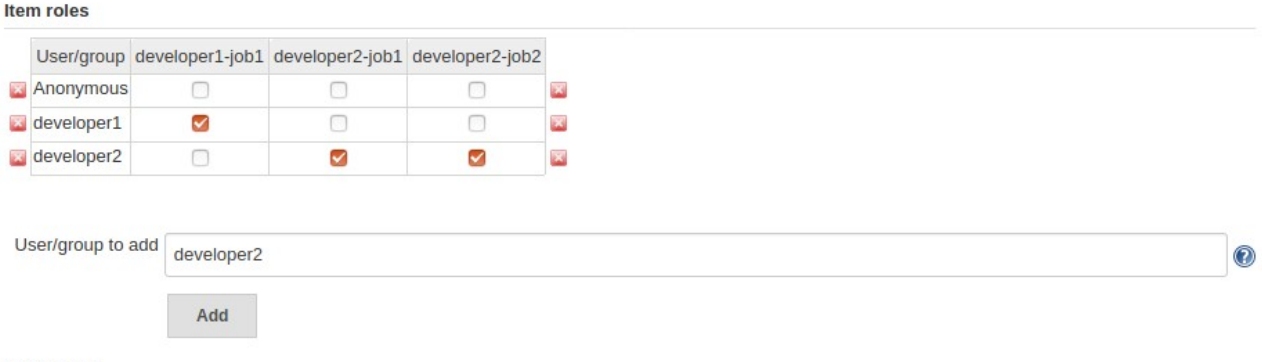
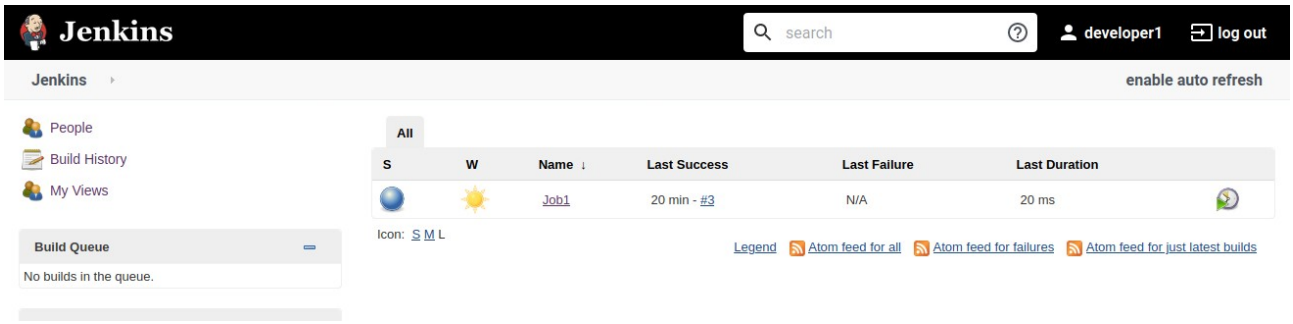
Jenkins 1

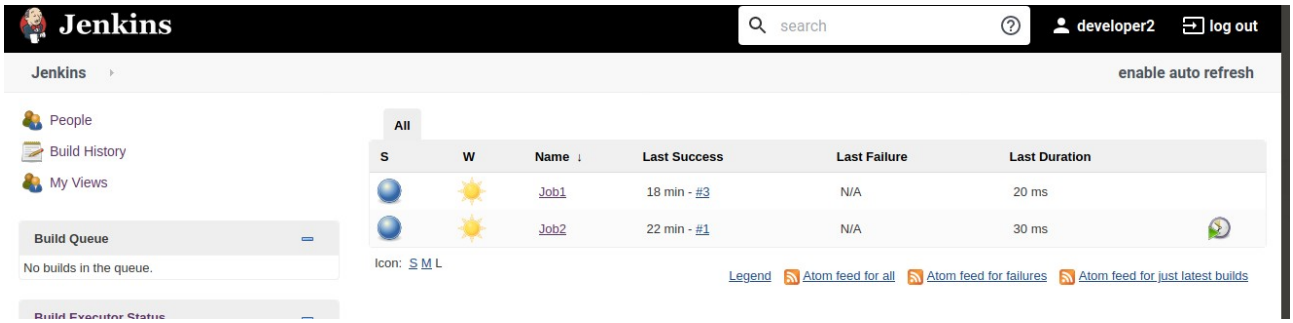
1. Create 2 users: developer1, developer2. The developer1 should be able to build job1 only and can't change the job configuration. The developer2 can configure and build the job2, also he is able to view job1 but can't build/configure it.



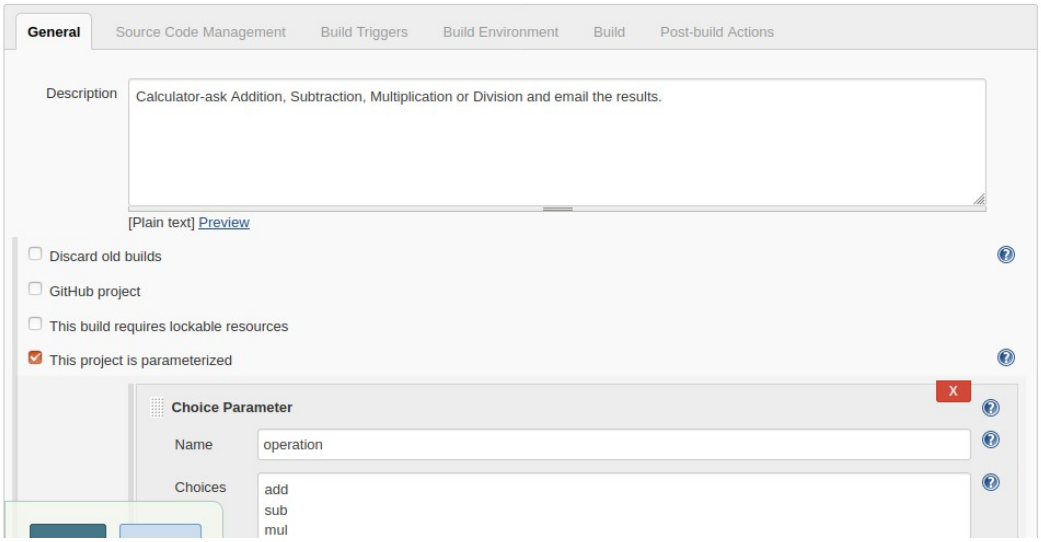


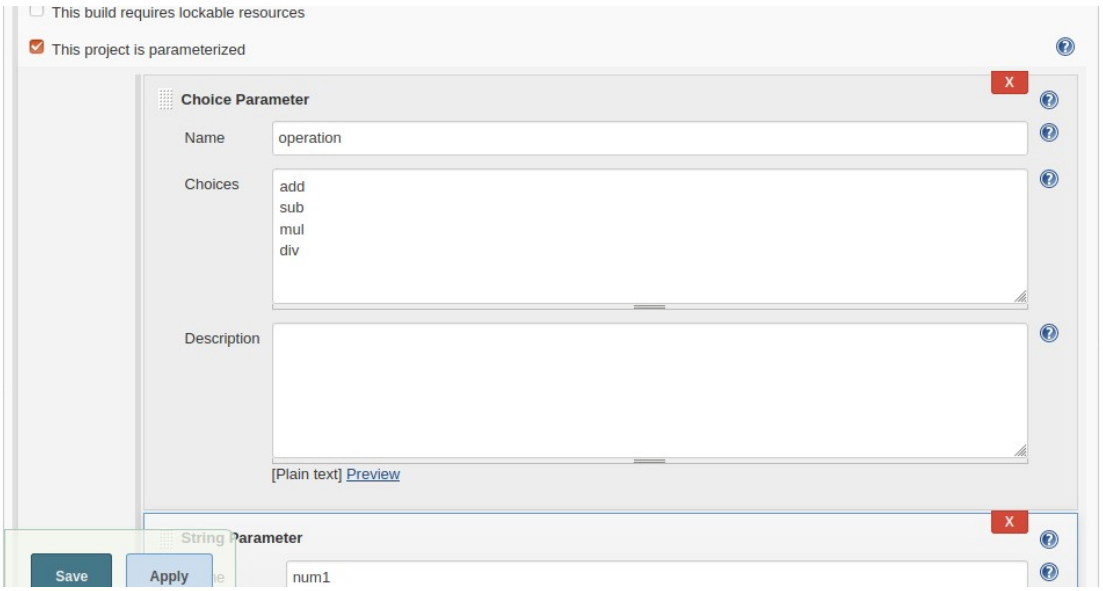


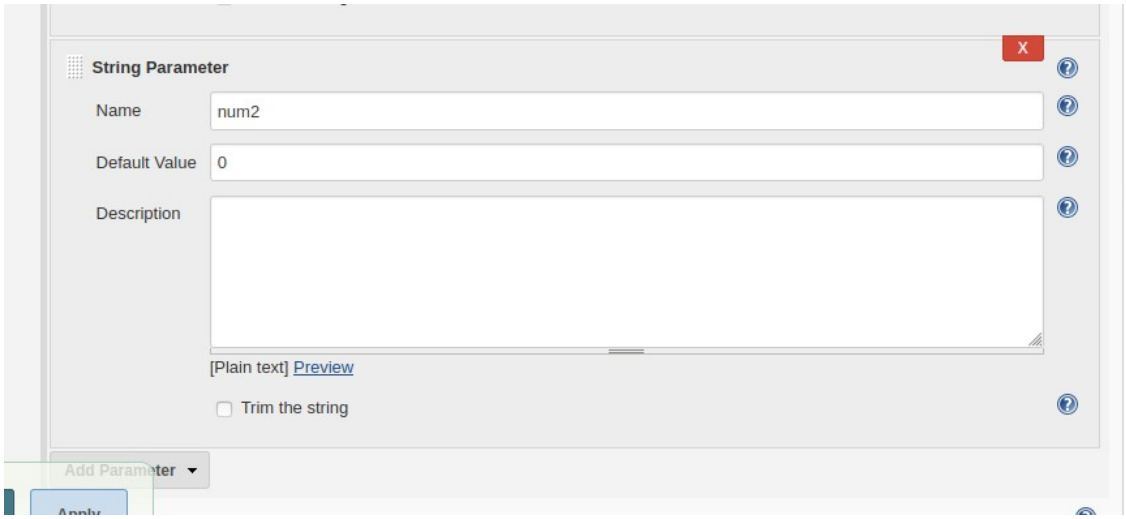




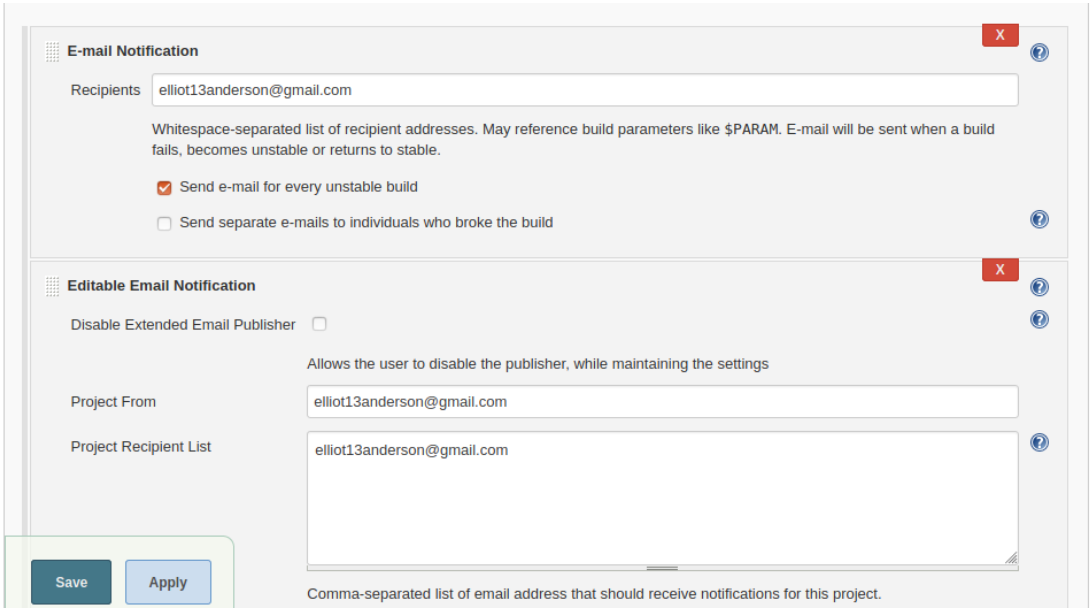
2. Create a Jenkins Job to create a calculator. It should give yo u a dropdown to ask Addition, Subtraction, Multiplication or Division and email the results.
   Hint: Plugin Used (Environment Injector, Extended Email Notification)

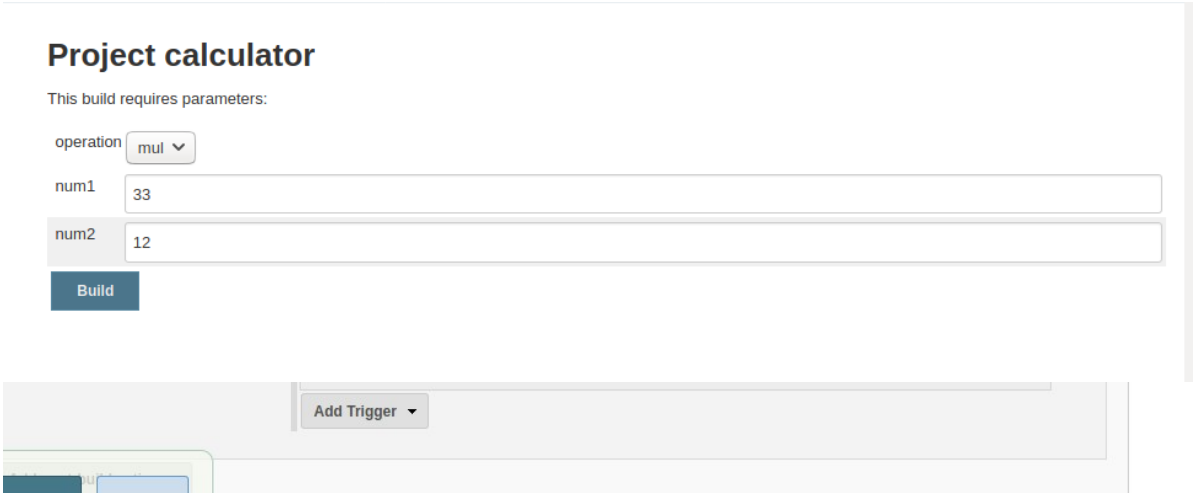



This build requires lockable resources
This project is parameterized
Choice Parameter
Name
operation
Choices
add
sub
mul
div
Description
[Plain text] Preview
String Parameter
num1
Save
Apply


String Parameter
Name
num2
Default Value
0
Description
[Plain text] Preview
Trim the string
Add Parameter


Build
Execute shell
Command
case $operation in
"add")
echo $((num1 + num2)) > /home/jay/results.txt
break
;;
"sub")
echo $((num1 - num2)) > /home/jay/results.txt
break
;;
"mul")
echo $((num1 * num2)) > /home/jay/results.txt
break
;;
"div")
echo $((num1 / num2)) > /home/jay/results.txt
break
;;
esac
See the list of available environment variables

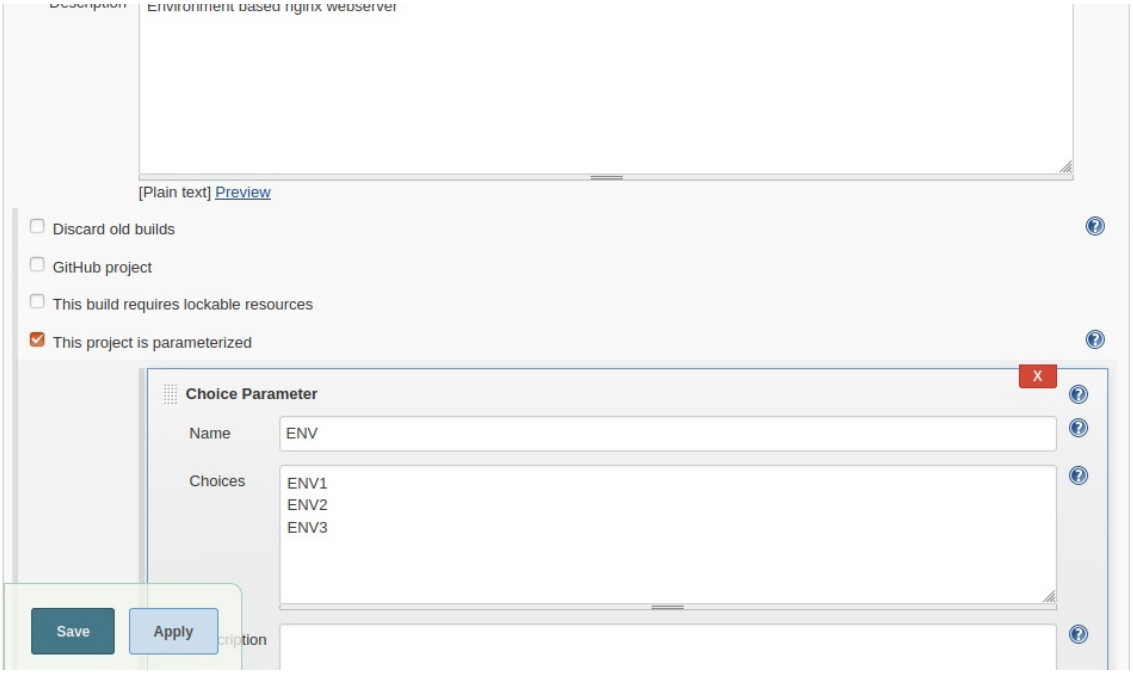

E-mail Notification
Recipients
elliot13anderson@gmail.com
Whitespace-separated list of recipient addresses. May reference build parameters like $PARAM. E-mail will be sent when a build fails, becomes unstable or returns to stable.
Send e-mail for every unstable build
Send separate e-mails to individuals who broke the build
Editable Email Notification
Disable Extended Email Publisher
Allows the user to disable the publisher, while maintaining the settings
Project From
elliot13anderson@gmail.com
Project Recipient List
elliot13anderson@gmail.com
Save
Apply
Comma-separated list of email address that should receive notifications for this project.


Project calculator
This build requires parameters:
operation
mul
num1
33
num2
12
Build
Add Trigger

Console Output

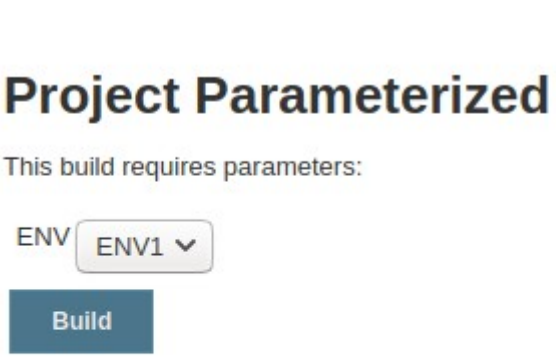
```
Started by user Jay_patel
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/calculator
No emails were triggered.
[calculator] $ /bin/sh -xe /tmp/jenkins2873422341591222893.sh
+ echo 396
+ break
Email was triggered for: Always
Sending email for trigger: Always
Sending email to: elliot13anderson@gmail.com
Finished: SUCCESS
```

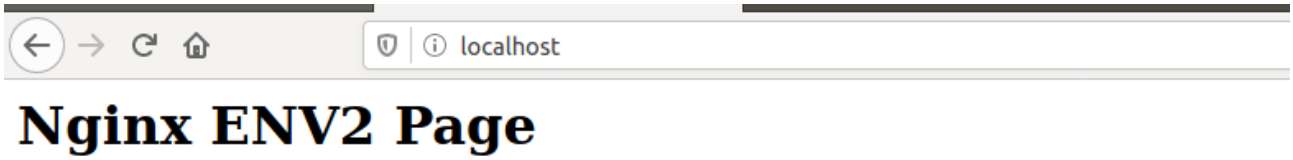
3. Create jenkins parameterized job which on selecting the different Env. will display different web pages by nginx.




```
server {
        listen 80;
        root /var/www/html/jenkins;
        server_name xyz.com www.xyz.com;

        index index.php index.html ENV1.html ENV2.html ENV3.html;
        access_log /var/log/nginx/xyz.access.log;
        error_log /var/log/nginx/xyz.error.log;

        error_page 404 /404.html;


}
```

```
jay@Jay-Patel:Documents (master)$ echo "<h1> Nginx ENV1 Page" > ENV1.ht
ml
jay@Jay-Patel:Documents (master)$ echo "<h1> Nginx ENV2 Page" > ENV2.ht
ml
jay@Jay-Patel:Documents (master)$ echo "<h1> Nginx ENV3 Page" > ENV.htm
l
jay@Jay-Patel:Documents (master)$ echo "<h1> Nginx ENV3 Page" > ENV3.ht
```





Nginx ENV2 Page

4. Create a job which on its failure will trigger another job.

Project error

Workspace

Recent Changes

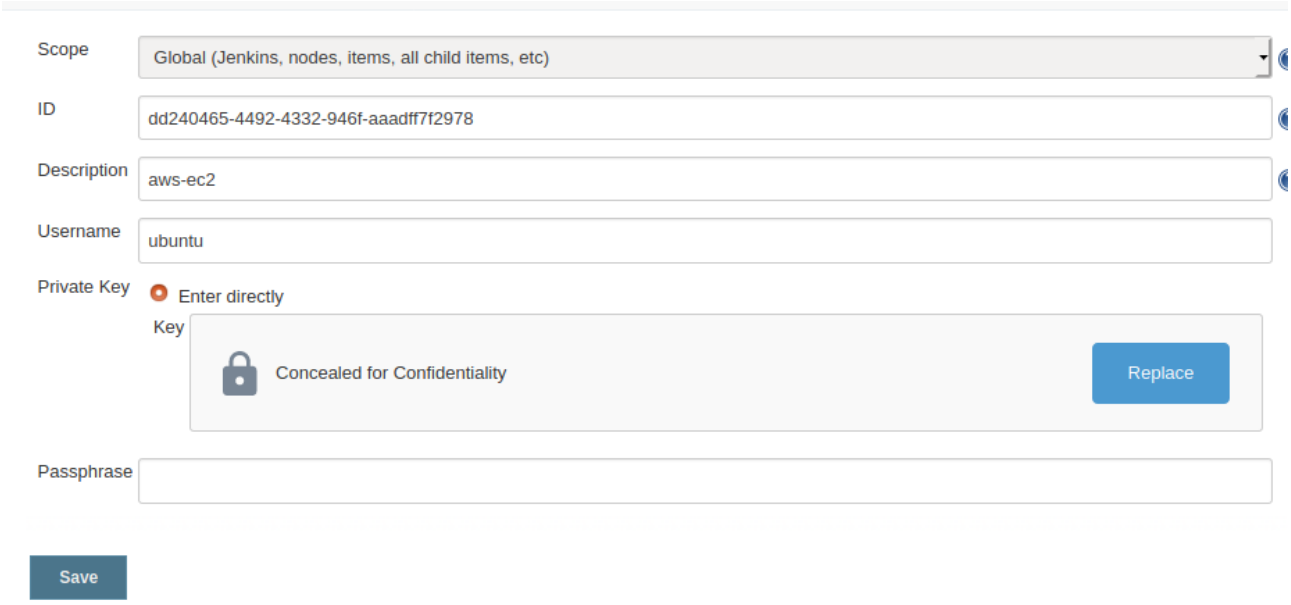
Downstream Projects

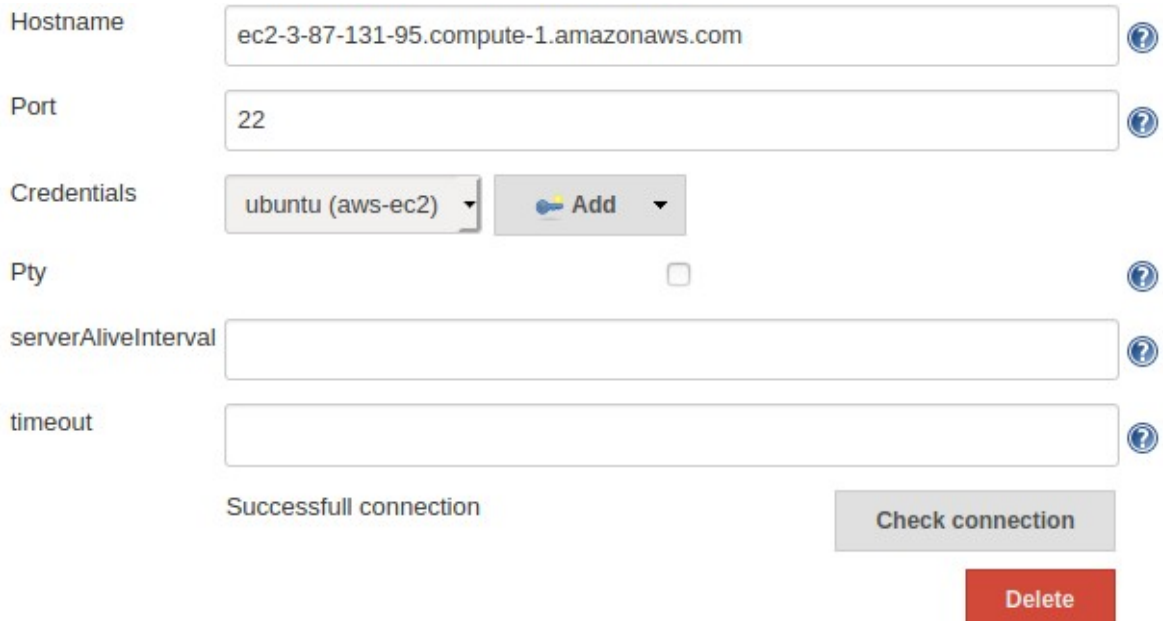
project1

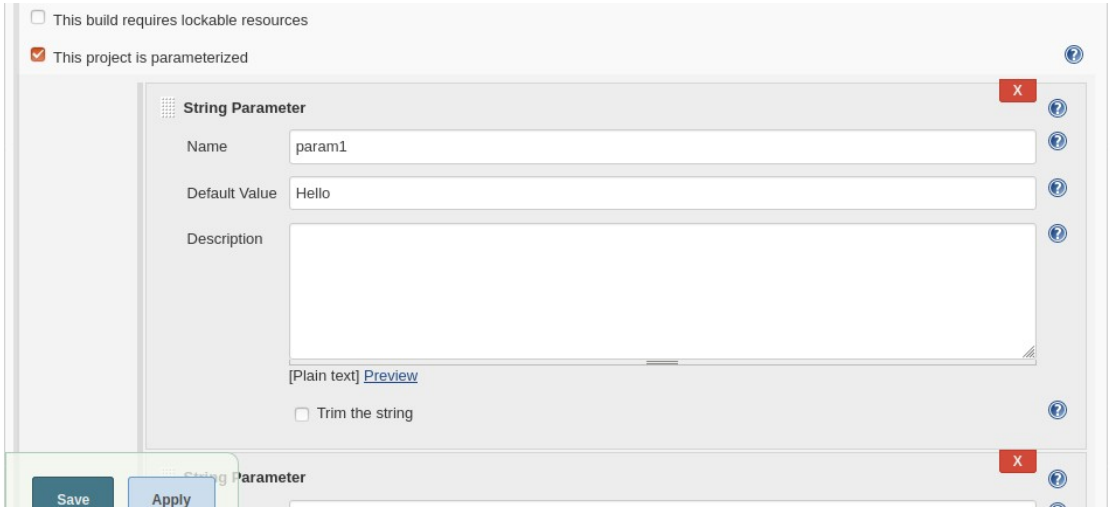
Permalinks

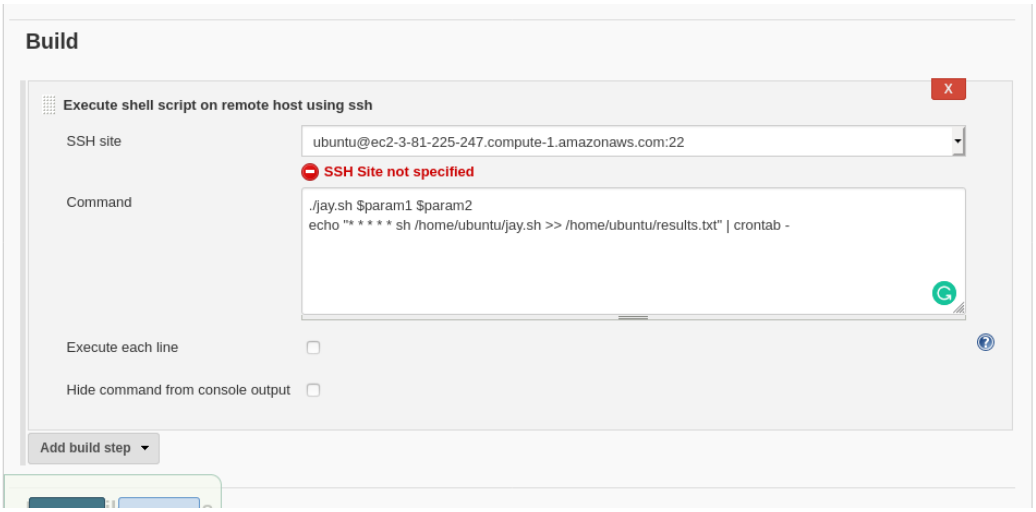
- Last build (#2), 1 min 17 sec ago
- Last failed build (#2), 1 min 17 sec ago
- Last unsuccessful build (#2), 1 min 17 sec ago
- Last completed build (#2), 1 min 17 sec ago

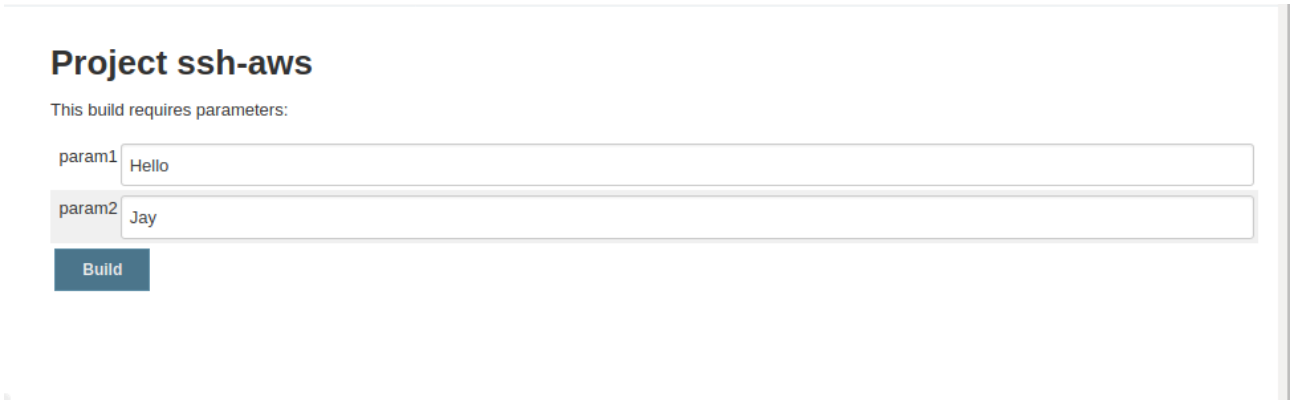
5. Create a job which can set a cronjob on another server. This server contains a script on its home directory and the script will print the two string parameters which will be given by the jenkins job.



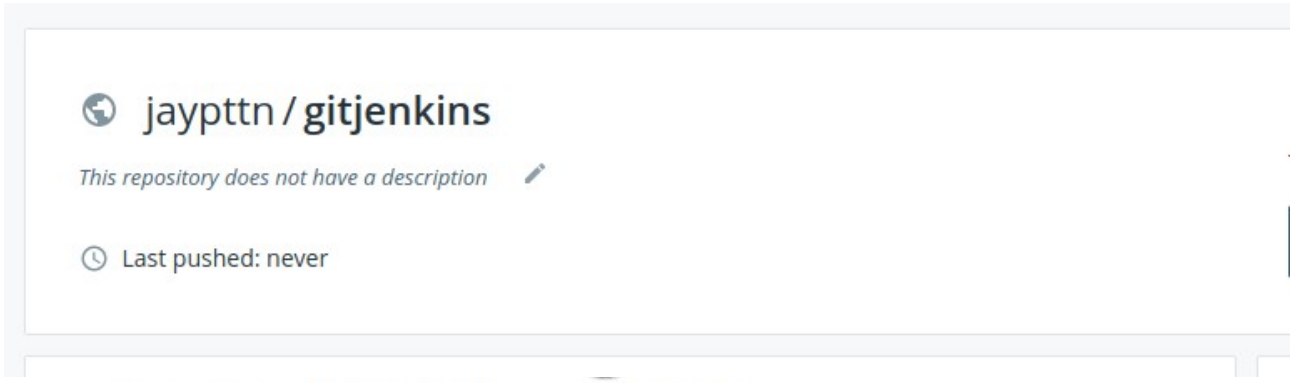

Hostname
ec2-3-87-131-95.compute-1.amazonaws.com
Port
22
Credentials
ubuntu (aws-ec2)
Add
Pty
serverAliveInterval
timeout
Successfull connection
Check connection
Delete


This build requires lockable resources
This project is parameterized
String Parameter
Name
param1
Default Value
Hello
Description
[Plain text] Preview
Trim the string
Save
Apply


Build
Execute shell script on remote host using ssh
SSH site
ubuntu@ec2-3-81-225-247.compute-1.amazonaws.com:22
SSH Site not specified
Command
./jay.sh $param1 $param2
echo "* * * * * sh /home/ubuntu/jay.sh >> /home/ubuntu/results.txt" | crontab -
Execute each line
Hide command from console output
Add build step

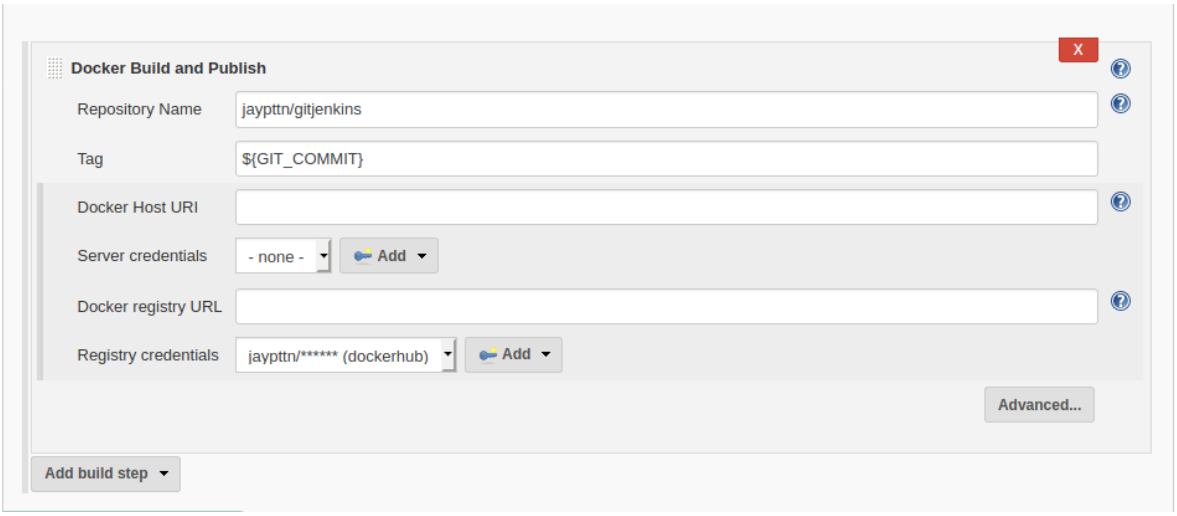


6. Create a job in which: Pull Dockerfile from GitHub, build it and push to Dockerhub. The docker image should have the tag: git commit id.


jaypttn / gitjenkins
This repository does not have a description
Last pushed: never


Loading plugin extensions
Pending


Source Code Management
None
Git
Repositories
Repository URL
https://github.com/jaypttn/dockerexample.git
Credentials
- none -
Add
Advanced...
Add Repository
Branches to build
Branch Specifier (blank for 'any')
*/master


Docker Build and Publish
Repository Name
jaypttn/gitjenkins
Tag
${GIT_COMMIT}
Docker Host URI
Server credentials
- none -
Add
Docker registry URL
Registry credentials
jaypttn/****** (dockerhub)
Add
Advanced...
Add build step

Console Output

```
Started by user Jay_patel
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/dockerpsuhgit
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/jaypttn/dockerexample.git # timeout=10
Fetching upstream changes from https://github.com/jaypttn/dockerexample.git
 > git --version # timeout=10
 > git fetch --tags --progress -- https://github.com/jaypttn/dockerexample.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 a9dccf0ba724baf7a185549369069c39cb4d1d75 (refs/remotes/origin/master)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f a9dccf0ba724baf7a185549369069c39cb4d1d75 # timeout=10
Commit message: "Docker file updated"
 > git rev-list --no-walk a9dccf0ba724baf7a185549369069c39cb4d1d75 # timeout=10
[dockerpsuhgit] $ docker build -t jaypttn/gitjenkins:a9dccf0ba724baf7a185549369069c39cb4d1d75 --pull=true /var/lib
/jenkins/workspace/dockerpsuhgit
Sending build context to Docker daemon   51.2kB

Step 1/5 : From ubuntu
latest: Pulling from library/ubuntu
```

IMAGE
latest
Last updated an hour ago by jaypttn

docker pull jaypttn/gitjenkins:latest

DIGEST	OS/ARCH	COMPRESSED SIZE
a3898d09d4fb	linux/amd64	70.02 MB

IMAGE
a9dccf0ba724baf7a185549369069c39cb4d1d75
Last updated an hour ago by jaypttn

docker pull jaypttn/gitjenkins:a9dccf0ba7

DIGEST	OS/ARCH	COMPRESSED SIZE
a3898d09d4fb	linux/amd64	70.02 MB

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.

Installing Plugins/Upgrades

Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

Amazon Web Services SDK	Installing
Javadoc	Pending
Maven Integration	Pending
Copy Artifact	Pending
S3 publisher	Pending
Loading plugin extensions	Pending

Amazon S3 profiles

S3 profiles

Profile name: jays3access

Use IAM Role

If ticked uses the instance IAM role to access S3.

Access key: AKIASXL6B65OXNUMWNX6

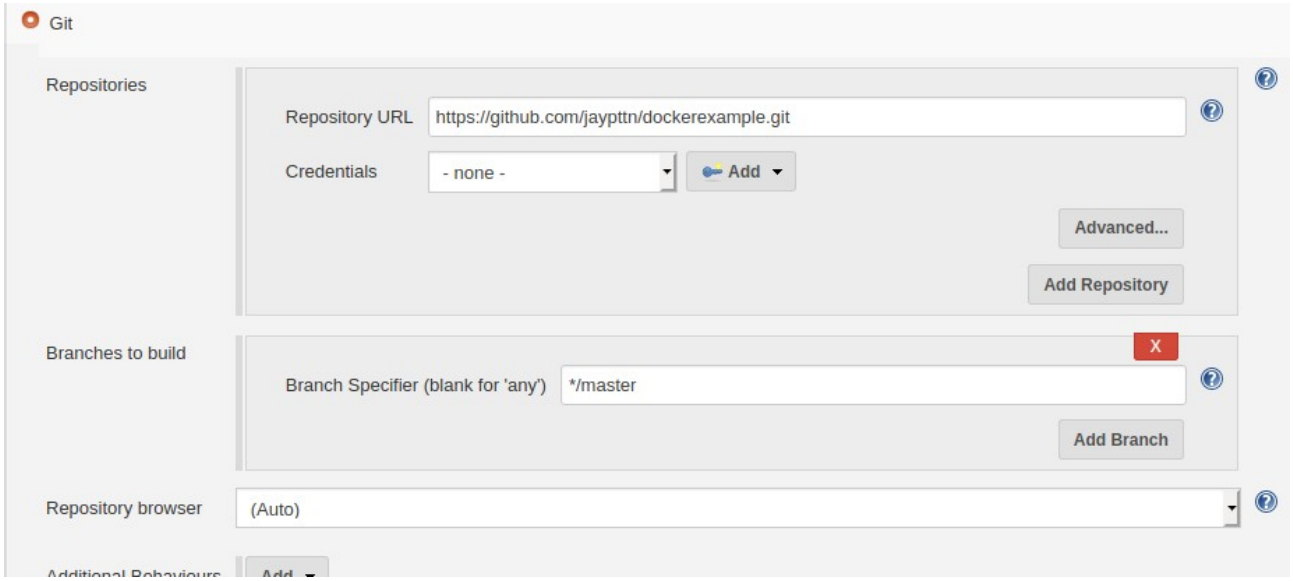
AWS access key

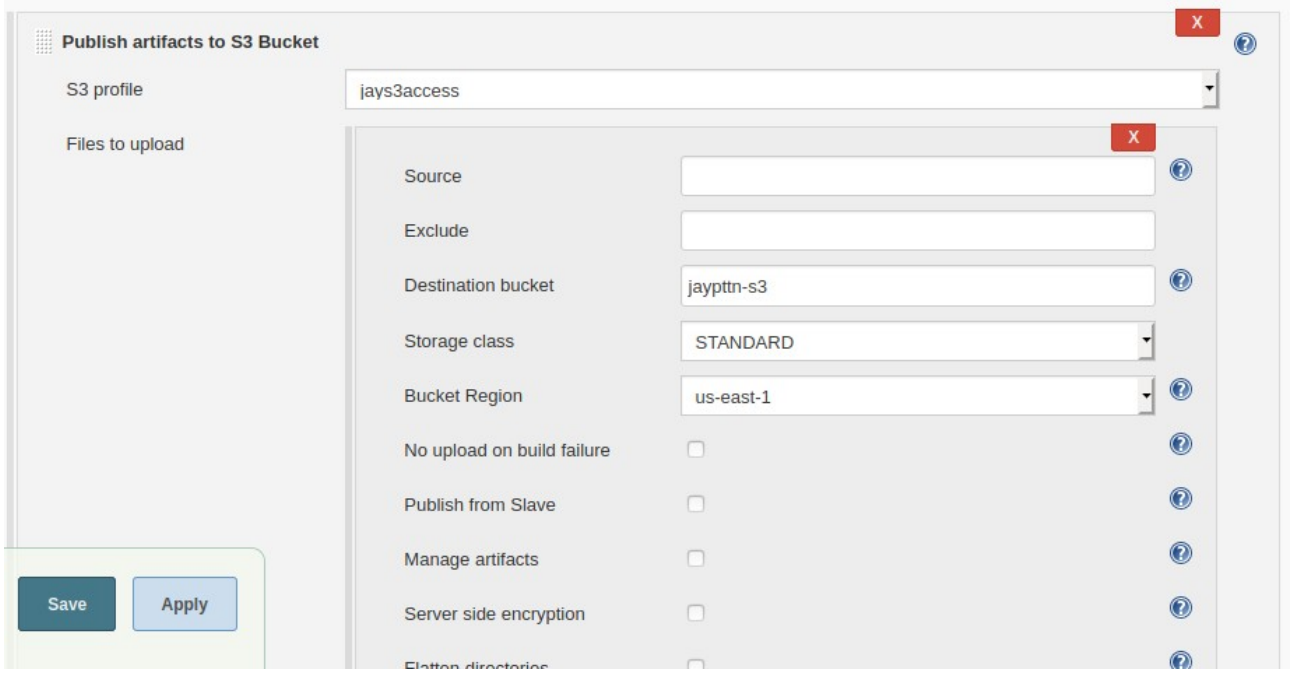
Secret key: ••

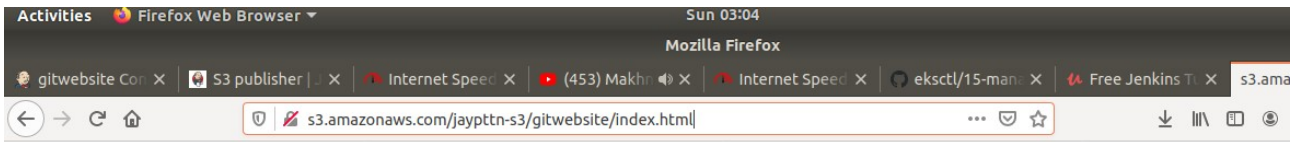
AWS secret key

Check passed! Test Connection

Save Apply







Jenkins page of s3 bucket

Jenkins page of s3 bucket

edited Jenkins page of s3 bucket

We can also do this question by installing jenkins on EC2 machine and then using github webhook and we have to use build triggers GitHub hook trigger for GITScm polling and then it will automatically get the latest build of website.