Jenkins Task-2

Task Description:

Create a simple script file and push it to repo. Create a project in Jenkins connected to your GitHub repository. When a commit is made to your repo, automatically build must get triggered from Jenkins and the output must be shared to me via email.

Techstacks needs to be used :

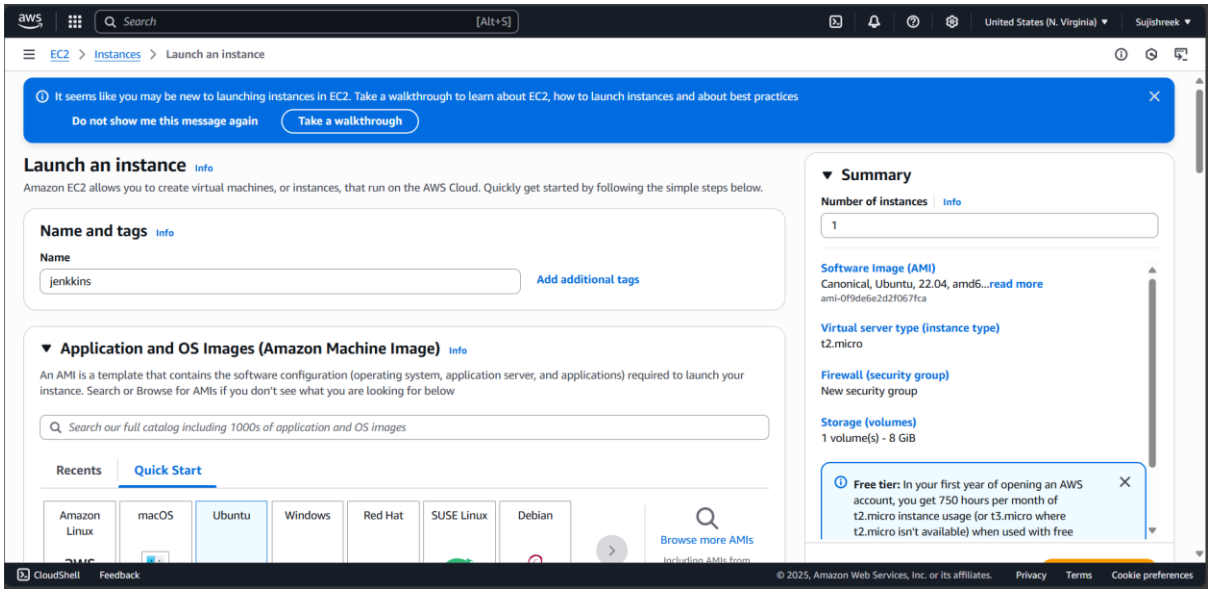
- AWS EC2
- Github
- Jenkins

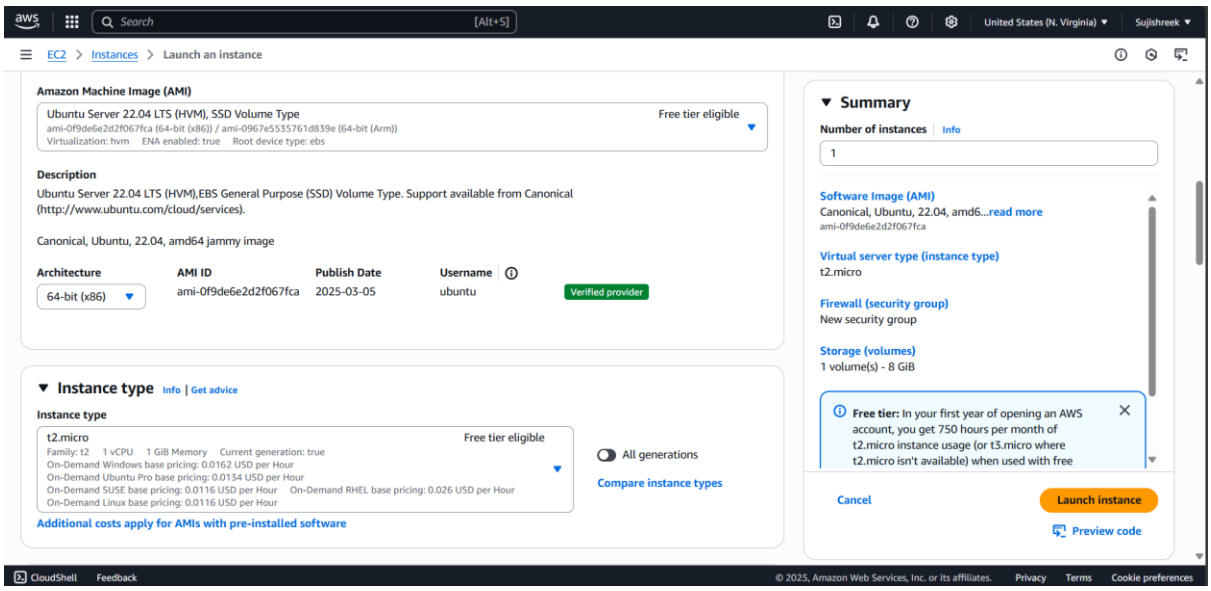
SCREENSHORTS:

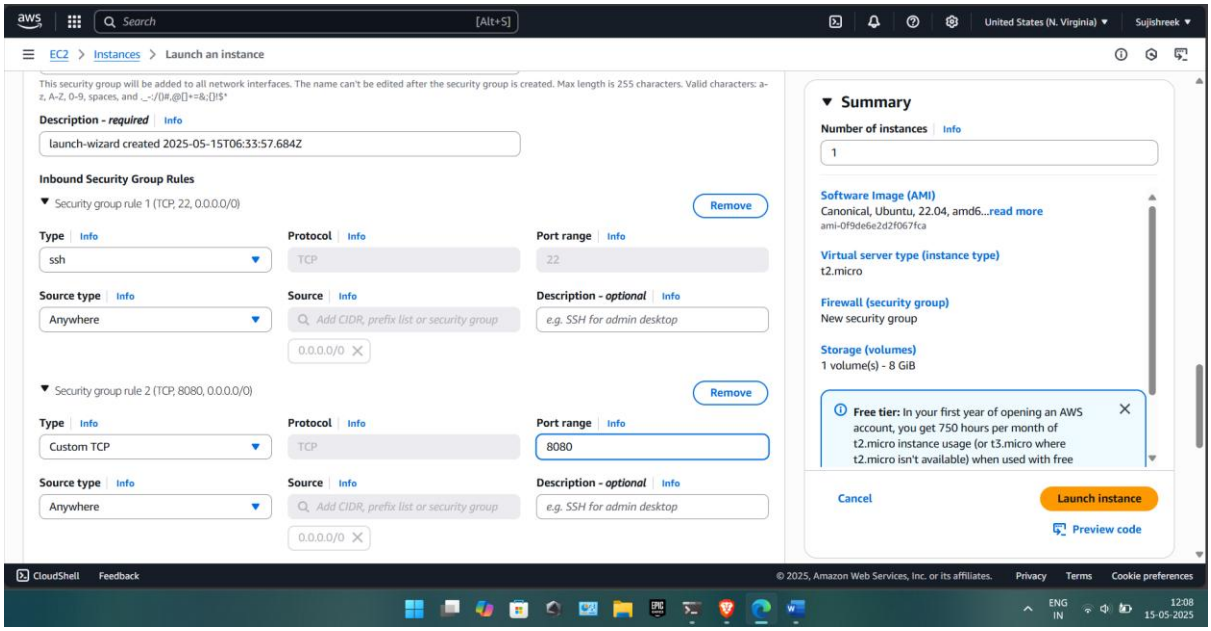
```
tamil@Tamizh MINGW64 ~ (master)
$ mkdir jenkins-pipeline-demo && cd jenkins-pipeline-demo

tamil@Tamizh MINGW64 ~/jenkins-pipeline-demo (master)
$ echo -e '#!/bin/bash\necho "Hello from Jenkins Pipeline! jenkins task-2 guvi project"' > script.sh

tamil@Tamizh MINGW64 ~/jenkins-pipeline-demo (master)
$ chmod +x script.sh

tamil@Tamizh MINGW64 ~/jenkins-pipeline-demo (master)
$ cat <<EOF > Jenkinsfile
pipeline {
    agent any

    stages {
        stage('Clone') {
            steps {
                echo 'Cloning repository...'
                checkout scm
            }
        }

        stage('Run Script') {
            steps {
                echo 'Running script...'
                sh 'bash script.sh'
            }
        }
    }
}
EOF

tamil@Tamizh MINGW64 ~/jenkins-pipeline-demo (master)
$ git init
Initialized empty Git repository in C:/Users/tamil/jenkins-pipeline-demo/.git/

tamil@Tamizh MINGW64 ~/jenkins-pipeline-demo (master)
$ git add .
warning: in the working copy of 'Jenkinsfile', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'script.sh', LF will be replaced by CRLF the next time Git touches it
```

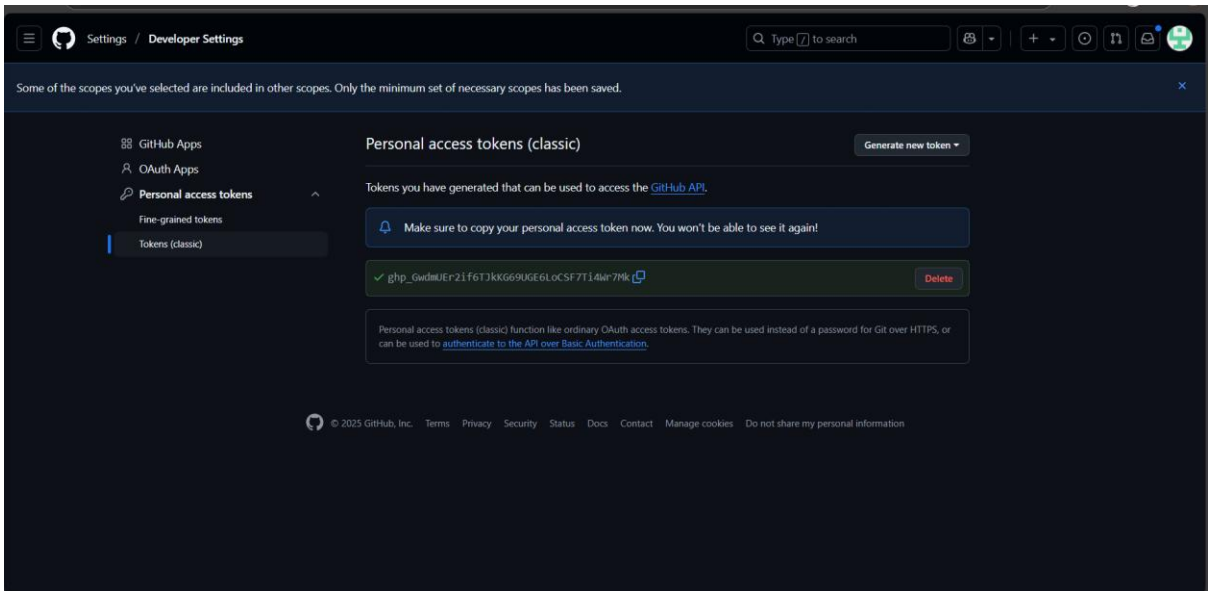
```
tamil@Tamizh MINGW64 ~/jenkins-pipeline-demo (master)
$ git add .
warning: in the working copy of 'Jenkinsfile', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'script.sh', LF will be replaced by CRLF the next time Git touches it

tamil@Tamizh MINGW64 ~/jenkins-pipeline-demo (master)
$ git commit -m "Initial commit with script and Jenkinsfile"
[master (root-commit) 9675eed] Initial commit with script and Jenkinsfile
 2 files changed, 21 insertions(+)
 create mode 100644 Jenkinsfile
 create mode 100644 script.sh

tamil@Tamizh MINGW64 ~/jenkins-pipeline-demo (master)
$ git branch -M main

tamil@Tamizh MINGW64 ~/jenkins-pipeline-demo (main)
$ git remote add origin https://github.com/Sujishreek/jenkins-pipeline-demo.
git

tamil@Tamizh MINGW64 ~/jenkins-pipeline-demo (main)
$ git push -u origin main
To https://github.com/Sujishreek/jenkins-pipeline-demo.git
 ! [rejected]        main -> main (fetch first)
error: failed to push some refs to 'https://github.com/Sujishreek/jenkins-pipeline-demo.git'
hint: Updates were rejected because the remote contains work that you do not
hint: have locally. This is usually caused by another repository pushing to
hint: the same ref. If you want to integrate the remote changes, use
hint: 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

tamil@Tamizh MINGW64 ~/jenkins-pipeline-demo (main)
$ git pull origin main --allow-unrelated-histories
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 880 bytes | 73.00 KiB/s, done.
From https://github.com/Sujishreek/jenkins-pipeline-demo
 * branch            main       -> FETCH_HEAD
 * [new branch]      main       -> origin/main
Merge made by the 'ort' strategy.
 README.md | 1 +
```

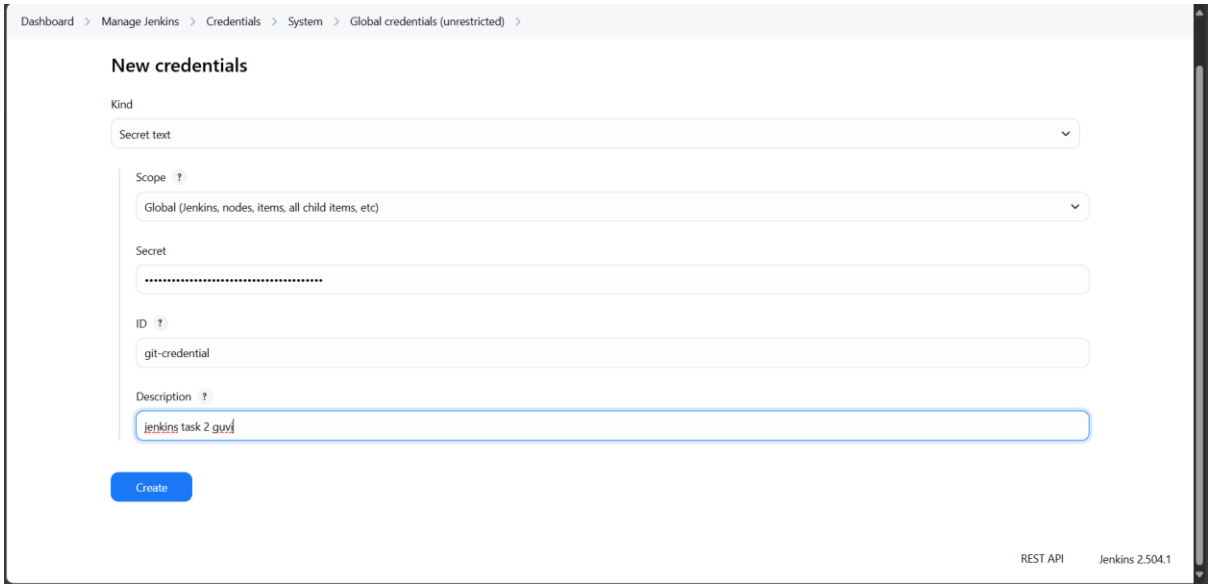
```
tamil@Tamizh MINGW64 ~/jenkins-pipeline-demo (main)
$ git push -u origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 16 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 812 bytes | 40.00 KiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/Sujishreek/jenkins-pipeline-demo.git
   f90e8de..0341823  main -> main
branch 'main' set up to track 'origin/main'.

tamil@Tamizh MINGW64 ~/jenkins-pipeline-demo (main)
$
```

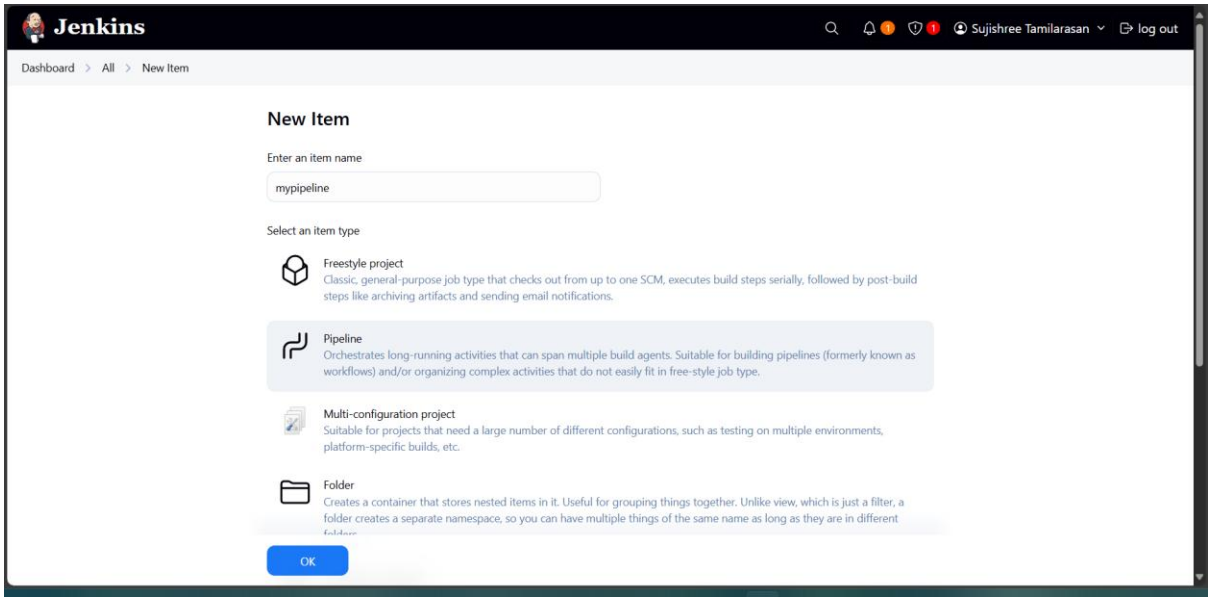


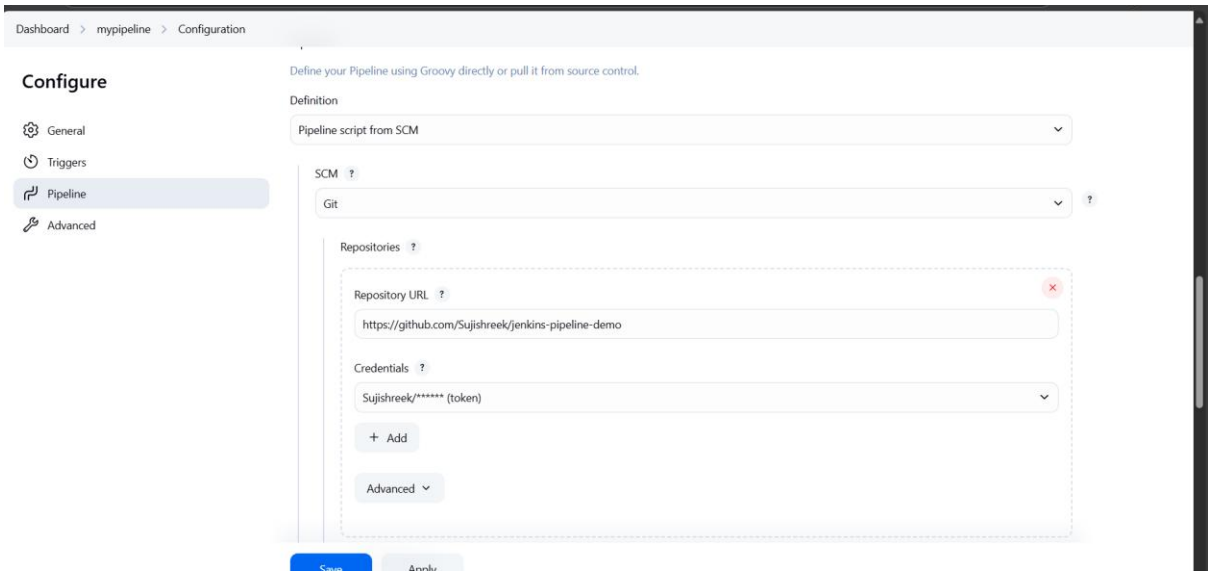


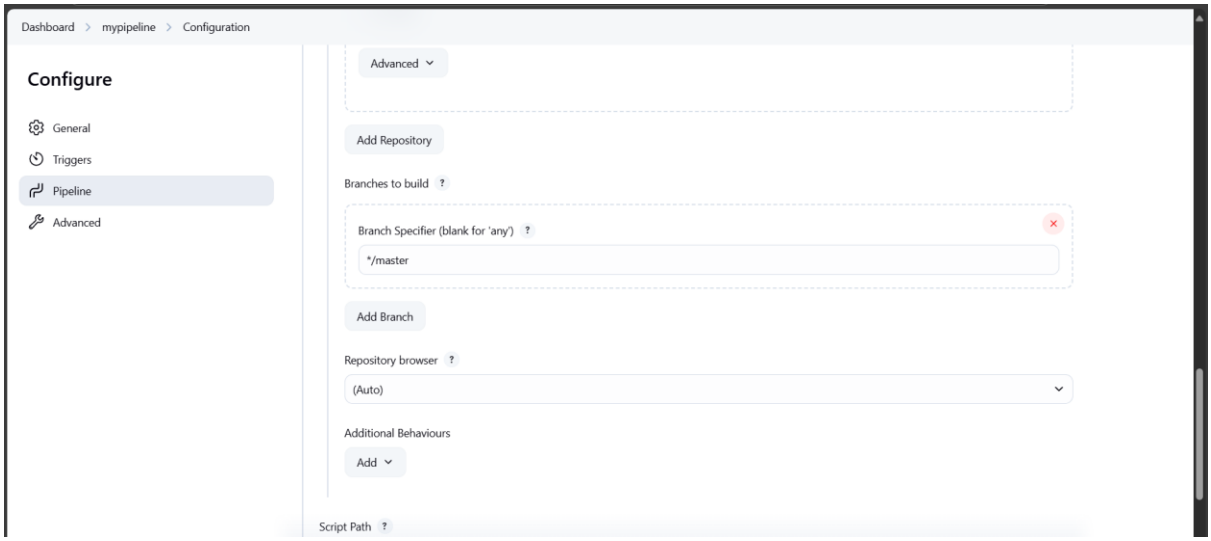

aws
Search
[Alt+S]
United States (N. Virginia)
Sujishreek
EC2 > Instances > Launch an instance
This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and ._-:/()#,@[]+=&;{}!$*
Description - required Info
launch-wizard created 2025-05-15T06:33:57.684Z
Inbound Security Group Rules
Security group rule 1 (TCP, 22, 0.0.0.0/0)
Remove
Type Info
ssh
Protocol Info
TCP
Port range Info
22
Source type Info
Anywhere
Source Info
Add CIDR, prefix list or security group
0.0.0.0/0
Description - optional Info
e.g. SSH for admin desktop
Security group rule 2 (TCP, 8080, 0.0.0.0/0)
Remove
Type Info
Custom TCP
Protocol Info
TCP
Port range Info
8080
Source type Info
Anywhere
Source Info
Add CIDR, prefix list or security group
0.0.0.0/0
Description - optional Info
e.g. SSH for admin desktop
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 22.04, amd6...read more
ami-0f9de6e2d2f067fca
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free
Cancel
Launch instance
Preview code
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
ENG
IN
12:08
15-05-2025

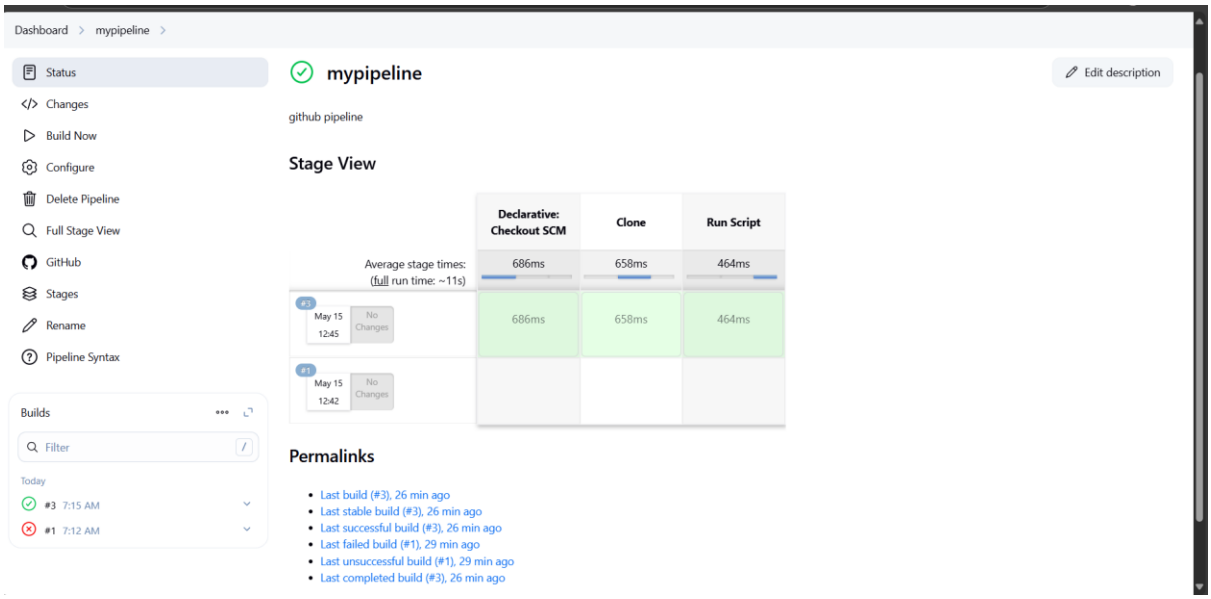

Settings / Developer Settings
Type / to search
Some of the scopes you've selected are included in other scopes. Only the minimum set of necessary scopes has been saved.
GitHub Apps
OAuth Apps
Personal access tokens
Fine-grained tokens
Tokens (classic)
Personal access tokens (classic)
Generate new token
Tokens you have generated that can be used to access the GitHub API.
Make sure to copy your personal access token now. You won't be able to see it again!
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
Delete
Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to authenticate to the API over Basic Authentication.
© 2025 GitHub, Inc.
Terms
Privacy
Security
Status
Docs
Contact
Manage cookies
Do not share my personal information

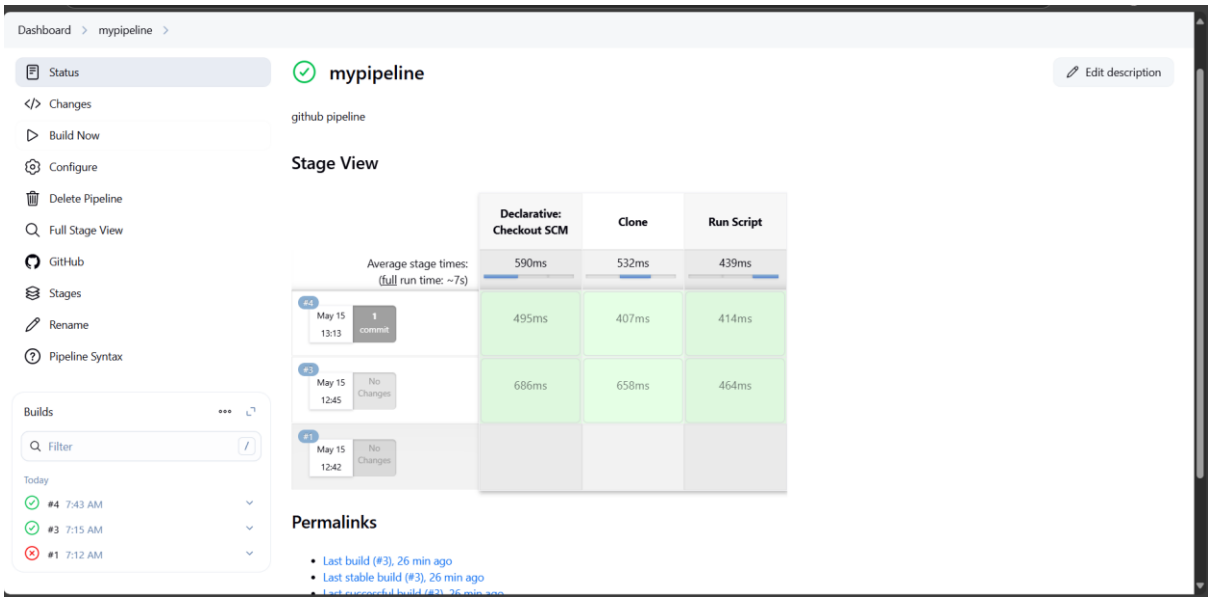

Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) >
New credentials
Kind
Secret text
Scope ?
Global (Jenkins, nodes, items, all child items, etc)
Secret
ID ?
git-credential
Description ?
jenkins task 2 guvi
Create
REST API
Jenkins 2.504.1

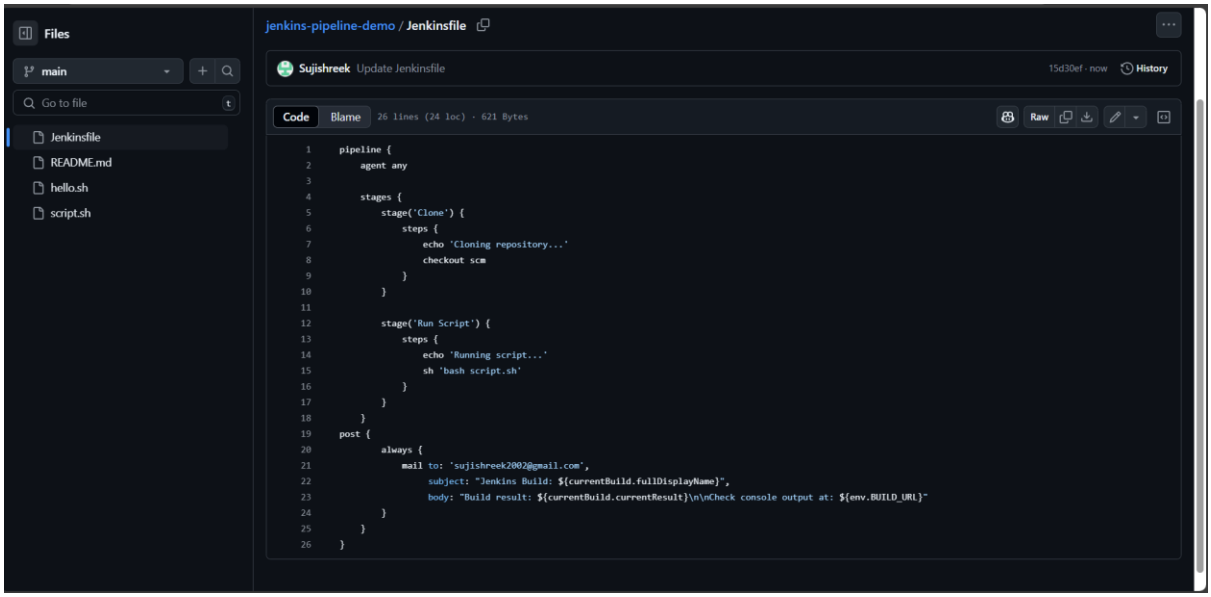

Jenkins
Sujishree Tamilarasan
log out
Dashboard > All > New Item
New Item
Enter an item name
mypipeline
Select an item type
Freestyle project
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.
Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.
Folder
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different
OK

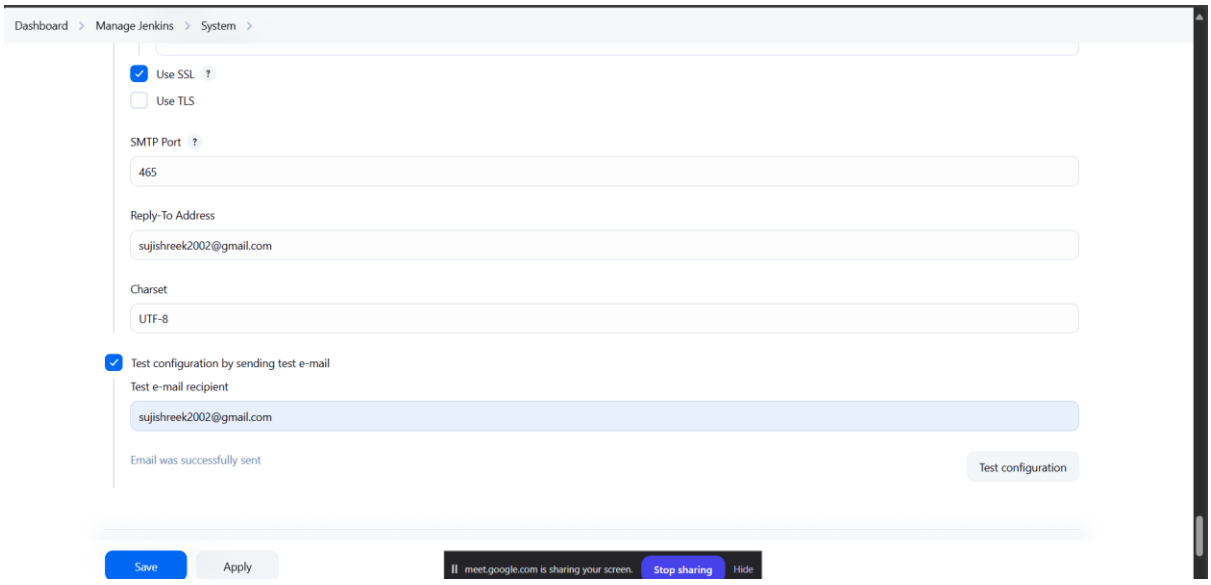

Dashboard > mypipeline > Configuration
Configure
General
Triggers
Pipeline
Advanced
Define your Pipeline using Groovy directly or pull it from source control.
Definition
Pipeline script from SCM
SCM ?
Git
Repositories ?
Repository URL ?
https://github.com/Sujishreek/jenkins-pipeline-demo
Credentials ?
Sujishreek/****** (token)
+ Add
Advanced

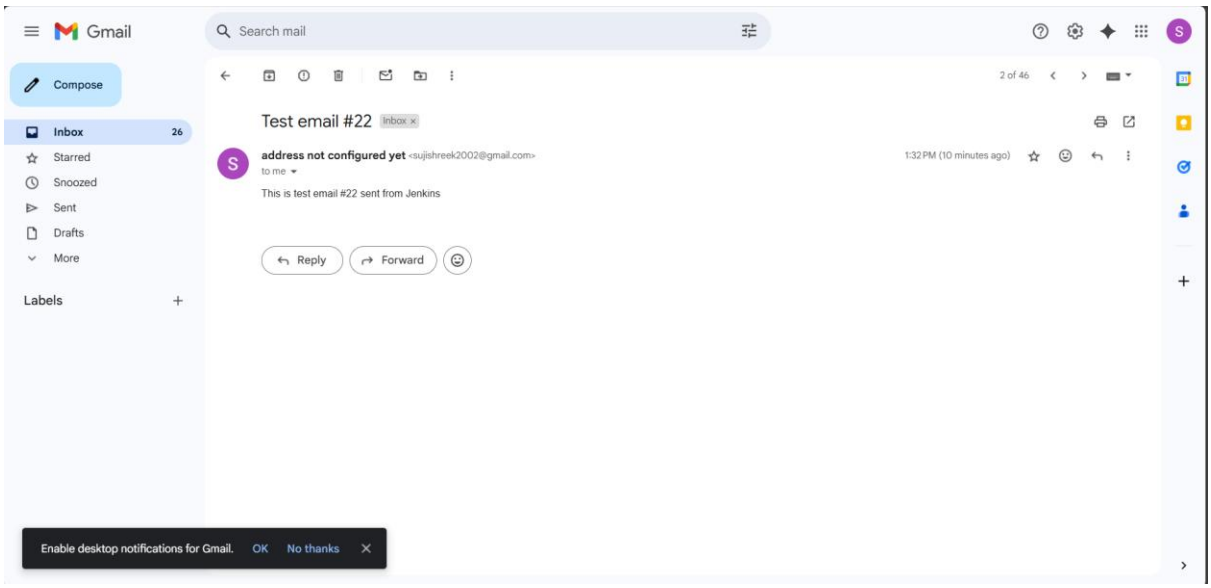

Dashboard > mypipeline > Configuration
Configure
General
Triggers
Pipeline
Advanced
Advanced
Add Repository
Branches to build
Branch Specifier (blank for 'any')
*/master
Add Branch
Repository browser
(Auto)
Additional Behaviours
Add
Script Path

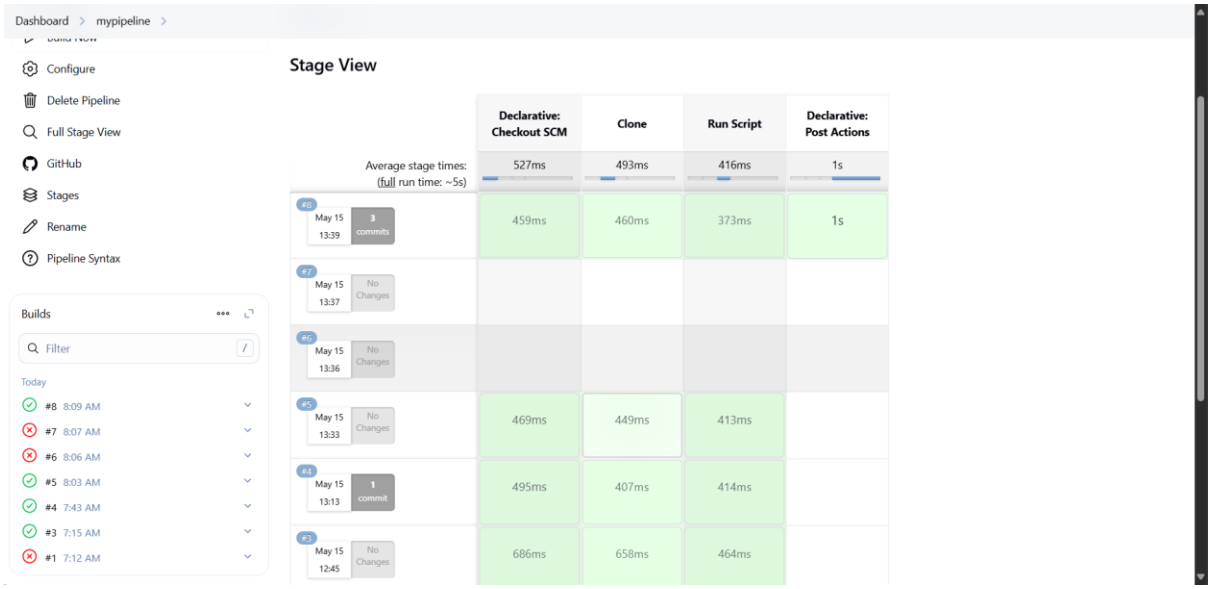

Dashboard > mypipeline >
Status
Changes
Build Now
Configure
Delete Pipeline
Full Stage View
GitHub
Stages
Rename
Pipeline Syntax
Builds
Filter
Today
#3 7:15 AM
#1 7:12 AM
mypipeline
Edit description
github pipeline
Stage View
Declarative: Checkout SCM
Clone
Run Script
Average stage times:
(full run time: ~11s)
686ms
658ms
464ms
#3
May 15
12:45
No Changes
686ms
658ms
464ms
#1
May 15
12:42
No Changes
Permalinks
Last build (#3), 26 min ago
Last stable build (#3), 26 min ago
Last successful build (#3), 26 min ago
Last failed build (#1), 29 min ago
Last unsuccessful build (#1), 29 min ago
Last completed build (#3), 26 min ago

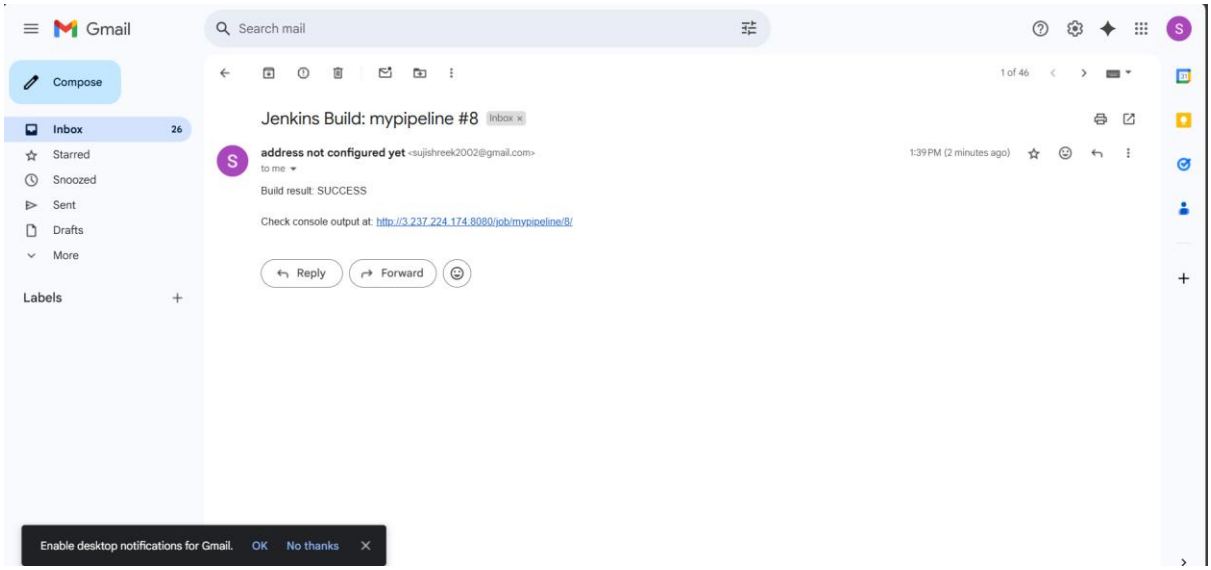

Dashboard > mypipeline >
Status
Changes
Build Now
Configure
Delete Pipeline
Full Stage View
GitHub
Stages
Rename
Pipeline Syntax
Builds
Filter
Today
#4 7:43 AM
#3 7:15 AM
#1 7:12 AM
mypipeline
Edit description
github pipeline
Stage View
Declarative: Checkout SCM
Clone
Run Script
Average stage times:
(full run time: ~7s)
590ms
532ms
439ms
#4
May 15
13:13
1 commit
495ms
407ms
414ms
#3
May 15
12:45
No Changes
686ms
658ms
464ms
#1
May 15
12:42
No Changes
Permalinks
Last build (#3), 26 min ago
Last stable build (#3), 26 min ago

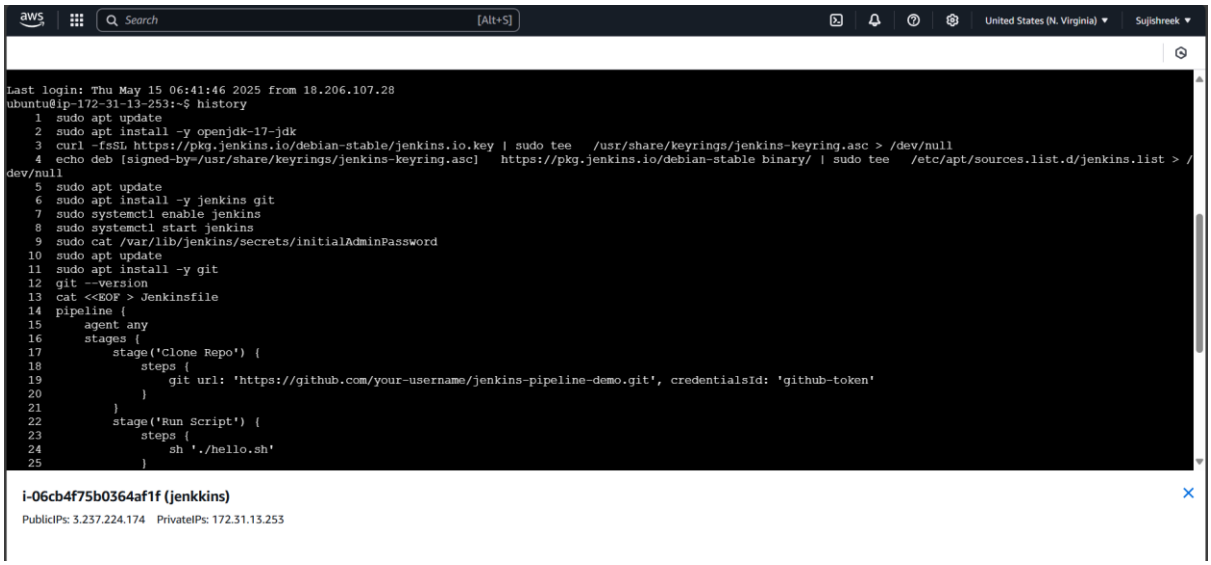

Files
main
Go to file
Jenkinsfile
README.md
hello.sh
script.sh
jenkins-pipeline-demo / Jenkinsfile
Sujishreek Update Jenkinsfile
15d30ef · now
History
Code
Blame
26 lines (24 loc) · 621 Bytes
Raw
pipeline {
agent any
stages {
stage('Clone') {
steps {
echo 'Cloning repository...'
checkout scm
}
}
stage('Run Script') {
steps {
echo 'Running script...'
sh 'bash script.sh'
}
}
}
post {
always {
mail to: 'sujishreek2002@gmail.com',
subject: "Jenkins Build: ${currentBuild.fullDisplayName}",
body: "Build result: ${currentBuild.currentResult}\n\nCheck console output at: ${env.BUILD_URL}"
}
}
}

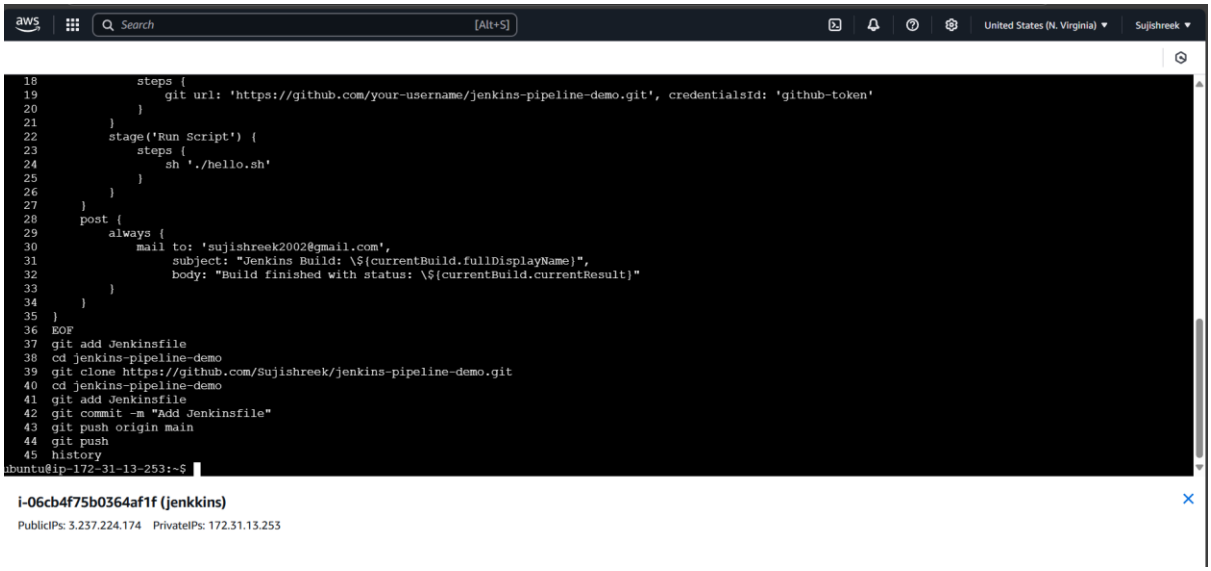

Dashboard
Manage Jenkins
System
Use SSL
Use TLS
SMTP Port
465
Reply-To Address
sujishreek2002@gmail.com
Charset
UTF-8
Test configuration by sending test e-mail
Test e-mail recipient
sujishreek2002@gmail.com
Email was successfully sent
Test configuration
Save
Apply
meet.google.com is sharing your screen.
Stop sharing
Hide


Gmail
Search mail
Compose
Inbox 26
Starred
Snoozed
Sent
Drafts
More
Labels
2 of 46
Test email #22
Inbox
address not configured yet <sujishreek2002@gmail.com>
to me
1:32 PM (10 minutes ago)
This is test email #22 sent from Jenkins
Reply
Forward
Enable desktop notifications for Gmail.
OK
No thanks


Dashboard > mypipeline >
Configure
Delete Pipeline
Full Stage View
GitHub
Stages
Rename
Pipeline Syntax
Builds
Filter
Today
#8 8:09 AM
#7 8:07 AM
#6 8:06 AM
#5 8:03 AM
#4 7:43 AM
#3 7:15 AM
#1 7:12 AM
Stage View
Declarative: Checkout SCM
Clone
Run Script
Declarative: Post Actions
Average stage times: (full run time: ~5s)
527ms
493ms
416ms
1s
May 15 13:39 3 commits
459ms
460ms
373ms
1s
May 15 13:37 No Changes
May 15 13:36 No Changes
May 15 13:33 No Changes
469ms
449ms
413ms
May 15 13:13 1 commit
495ms
407ms
414ms
May 15 12:45 No Changes
686ms
658ms
464ms


Gmail
Search mail
Compose
Inbox 26
Starred
Snoozed
Sent
Drafts
More
Labels
1 of 46
Jenkins Build: mypipeline #8
Inbox
address not configured yet <sujishreek2002@gmail.com>
to me
1:39 PM (2 minutes ago)
Build result: SUCCESS
Check console output at: http://3.237.224.174:8080/job/mypipeline/8/
Reply
Forward
Enable desktop notifications for Gmail.
OK
No thanks


aws
Search
[Alt+S]
United States (N. Virginia)
Sujishreek
Last login: Thu May 15 06:41:46 2025 from 18.206.107.28
ubuntu@ip-172-31-13-253:~$ history
1 sudo apt update
2 sudo apt install -y openjdk-17-jdk
3 curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo tee /usr/share/keyrings/jenkins-keyring.asc > /dev/null
4 echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] https://pkg.jenkins.io/debian-stable binary/ | sudo tee /etc/apt/sources.list.d/jenkins.list > /dev/null
5 sudo apt update
6 sudo apt install -y jenkins git
7 sudo systemctl enable jenkins
8 sudo systemctl start jenkins
9 sudo cat /var/lib/jenkins/secrets/initialAdminPassword
10 sudo apt update
11 sudo apt install -y git
12 git --version
13 cat <<EOF > Jenkinsfile
14 pipeline {
15 agent any
16 stages {
17 stage('Clone Repo') {
18 steps {
19 git url: 'https://github.com/your-username/jenkins-pipeline-demo.git', credentialsId: 'github-token'
20 }
21 }
22 stage('Run Script') {
23 steps {
24 sh './hello.sh'
25 }
i-06cb4f75b0364af1f (jenkkins)
PublicIPs: 3.237.224.174 PrivateIPs: 172.31.13.253


aws
Search
[Alt+S]
United States (N. Virginia)
Sujishreek
steps {
git url: 'https://github.com/your-username/jenkins-pipeline-demo.git', credentialsId: 'github-token'
}
}
stage('Run Script') {
steps {
sh './hello.sh'
}
}
}
post {
always {
mail to: 'sujishreek2002@gmail.com',
subject: "Jenkins Build: \${currentBuild.fullDisplayName}",
body: "Build finished with status: \${currentBuild.currentResult}"
}
}
}
EOF
git add Jenkinsfile
cd jenkins-pipeline-demo
git clone https://github.com/Sujishreek/jenkins-pipeline-demo.git
cd jenkins-pipeline-demo
git add Jenkinsfile
git commit -m "Add Jenkinsfile"
git push origin main
git push
history
ubuntu@ip-172-31-13-253:~$
i-06cb4f75b0364af1f (jenkkins)
PublicIPs: 3.237.224.174 PrivateIPs: 172.31.13.253