

## Jenkins assignment :3

create three Git repositories named `master`, `dev`, and `qa`, each with an `index.html` file containing a unique script message, set up an Amazon Linux 2 EC2 instance with Jenkins and Apache HTTPD, configure three Jenkins jobs to monitor changes in each repository, and ensure that changes to `index.html` in the `master`, `dev`, or `qa` repositories trigger their respective jobs to deploy the updated `index.html` to the Apache web root, replacing the previous `index.html` file, while verifying the deployment and securing the setup?

Ans:

### Prerequisites

1) On ec2 instance

Launch java,httpd,git and Jenkins

2)Create 3 github repository : Master,Dev,Qa and in each repo has index.html

The screenshot displays the Jenkins Dashboard. On the left, there is a sidebar with links: '+ New Item', 'Build History', 'Manage Jenkins', and 'My Views'. Below these are sections for 'Build Queue' (showing 'No builds in the queue.') and 'Build Executor Status' (showing '0 of 2 executors busy'). The main area shows a table of build jobs with columns: 'S', 'W', 'Name', 'Last Success', 'Last Failure', and 'Last Duration'. The table lists four jobs: 'deploy-war-job', 'dev-job', 'master-job', and 'QA-jobs', all with green status icons and successful last builds. Below the table, there is a section for the 'master / index.html' file, showing a commit by 'Poojak134' with the message 'Update index.html'. The file content is displayed as a single line of HTML: '<h1>This is master repo</h1>'. The commit history shows it was made 32 minutes ago.

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀	deploy-war-job	8 hr 20 min #43	N/A	7.8 sec
✓	☀	dev-job	21 min #1	N/A	1.9 sec
✓	☀	master-job	25 min #2	N/A	1.9 sec
✓	☀	QA-jobs	27 sec #2	N/A	3.8 sec

master / index.html

Poojak134 Update index.html 7/09537 · 32 minutes ago History

Code Blame 1 lines (1 loc) · 29 Bytes Code 55% faster with GitHub Copilot Raw

```
1 <h1>This is master repo</h1>
```

Dashboard > master-job > Configuration

Configure

General

Source Code Management

Triggers

Environment

Build Steps

Post-build Actions

Triggers

Set up automated actions that start your build based on specific events, like code changes or scheduled times.

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

☐ Build after other projects are built ?

☐ Build periodically ?

☒ GitHub hook trigger for GITScm polling ?

☐ Poll SCM ?

Environment

Dashboard > master-job > Configuration

Configure

General

Source Code Management

Triggers

Environment

Build Steps

Post-build Actions

Build Steps

Automate your build process with ordered tasks like code compilation, testing, and deployment.

Execute shell ?

Command

See the list of available environment variables

```
cp index.html /var/www/html/index.html
sudo chown apache:apache /var/www/html/index.html
sudo chmod 644 /var/www/html/index.html
sudo systemctl restart httpd
```

Status

</> Changes

Workspace

Build Now

Configure

Delete Project

GitHub Hook Log

Rename

master-job

Permalinks

- Last build (#4), 31 sec ago
- Last stable build (#4), 31 sec ago
- Last successful build (#4), 31 sec ago
- Last completed build (#4), 31 sec ago

Buils

Filter

Today

#4 5:19 PM

#3 5:10 PM

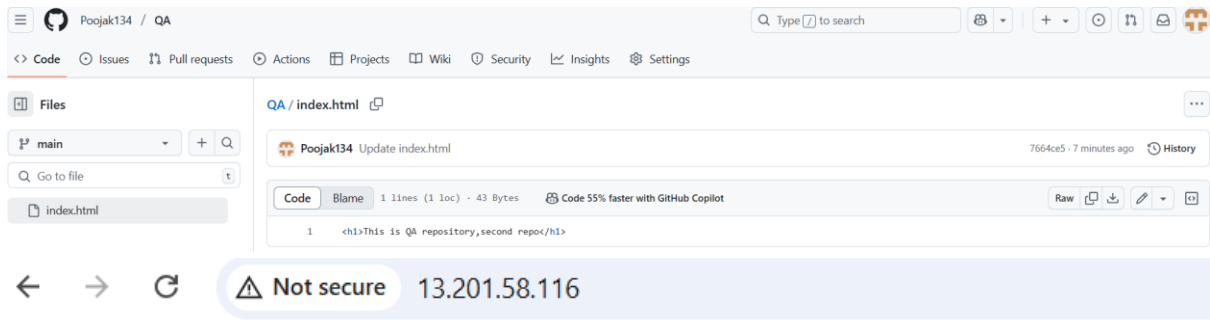
← → ↺

Not secure

13.201.58.116

**This is master repo**

**This is first repo .**



# This is QA repository,second repo

## this is second change

Dashboard > QA-jobs >

Status

</> Changes

Workspace

Build Now

Configure

Delete Project

GitHub Hook Log

Rename

QA-jobs

Permalinks


- Last build (#3), 32 sec ago
- Last stable build (#3), 32 sec ago
- Last successful build (#3), 32 sec ago
- Last completed build (#3), 32 sec ago

Builds

Filter

Today


- #3 5:22 PM
- #2 5:05 PM
- #1 5:03 PM

 Poojak134 Update index.html

Code

Blame

1 lines (1 loc) · 32 Bytes

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1     <h1>This is Dev repository</h1>

This is Dev repository

this is second change

Status

</> Changes

Workspace

Build Now

Configure

Delete Project


GitHub Hook Log

Rename

 dev-job

Permalinks


- [Last build \(#2\), 55 sec ago](#)
- [Last stable build \(#2\), 55 sec ago](#)
- [Last successful build \(#2\), 55 sec ago](#)
- [Last completed build \(#2\), 55 sec ago](#)


Builds ⋮ 

Filter

/

Today

 #2 5:25 PM

 #1 4:44 PM