CDEC – B24

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Task :- Webhook on Jenkins

1. Install the Jenkins on ec2 instance

- **Install java**
- **Sudo apt update**
- **Sudo apt default-jdk install**
- **sudo apt update**
- **sudo apt install fontconfig openjdk-17-jre**

- **install Jenkins**

- **sudo apt update**

- **sudo wget -O /etc/yum.repos.d/jenkins.repo **

- **https://pkg.jenkins.io/redhat/jenkins.repo**
- **sudo rpm --import https://pkg.jenkins.io/redhat/jenkins.io-2023.key**
- **sudo dnf upgrade**
- **# Add required dependencies for the jenkins package**
- **sudo dnf install fontconfig java-17-openjdk**
- **sudo dnf install Jenkins**

2. create the node (webhook)

a. Add the node IP address and Credentials.

Dashboard > Nodes > webhook > Configure

Status
Delete Agent
Configure
Build History
Load Statistics
Script Console
Log
System Information
Disconnect

Build Executor Status ⌄

1 Idle

Name ?

webhook

Description ?

Plain text **Preview**

Number of executors ?

1

Remote root directory ?

/home/ubuntu

Labels ?

agent1

Usage ?

Use this node as much as possible ⌄

Launch method ?

Launch agents via SSH ⌄

Host ?

54.90.130.104

Credentials ?

ubuntu (ytyuvi) ⌄

+ Add ▾

Host Key Verification Strategy ?

Non verifying Verification Strategy ⌄ ?

3. Create the pipeline

General

Enabled ●

Description

webhook-project

Plain text **Preview**

☐ Discard old builds ?

☐ Do not allow concurrent builds

☐ Do not allow the pipeline to resume if the controller restarts

☑ GitHub project

Project url ?

https://github.com/chavhankunal/nginx.git/

Advanced ⌄

☐ Pipeline speed/durability override ?

Build Triggers

☐ Build after other projects are built ?

☐ Build periodically ?

☑ GitHub hook trigger for GITScm polling ?

☐ Poll SCM ?

☐ Quiet period ?

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

3. pipeline script :

```
pipeline{
   agent {
      label 'agent1'
   }

   stages{
      stage('Pulling from git'){
         steps{
            git branch: 'main', url:
'https://github.com/chavhankunal/nginx.git/'
         }
      }

      stage('hello')
      {
         steps{
            echo 'Hello World'
         }
      }

   }
}
```

5. Add IP Address on Github Repository Webhook

Webhooks / Manage webhook

Settings   Recent Deliveries

We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, x-www-form-urlencoded, etc). More information can be found in our developer documentation.

Payload URL *

    http://54.91.224.40:8080/github-webhook/

Content type

    application/json

Secret

Which events would you like to trigger this webhook?

◉ Just the push event.

◯ Send me everything.

6. Changes in Github Repository and on Jenkins it automatically build.

Dashboard > New_Webhook >

</> Changes

▷ Build Now

⚙ Configure

🗑 Delete Pipeline

○ GitHub

🗂 Stages

✎ Rename

? Pipeline Syntax

▯ GitHub Hook Log

Permalinks

- Last build (#2), 33 sec ago
- Last stable build (#2), 33 sec ago
- Last successful build (#2), 33 sec ago
- Last completed build (#2), 33 sec ago

☀ Build History   trend ⌄

🔍 Filter...

⊘ #2
| Mar 26, 2024, 7:14 AM

⊘ #1
| Mar 26, 2024, 7:13 AM

🔊 Atom feed for all 🔊 Atom feed for failures