**PHP Website Host on EC2**

**Step 1:- Launch an EC2 instance**

Choose AMI (ubuntu,amazon linux)

Select instance type based on needs.

Select key-pair

Select appropriate security group with ports 22,80

**Step 2:- Connect to your EC2 instance**

**Step 3 :- Install Apache web server**

Install apache2/httpd according to the AMI selected and start it.

Install Apache :-

*apt install apache2 -y (for ubuntu)*

*yum install httpd -y (for amazon linux)*

Start Apache service:-

*systemctl start apache2/httpd*

**Step 4:- Removing files generated**

After starting apache2/httpd, a file named index.html is generated.

This is the default path for apache server.

Command:-

*rm -rf /var/www/html/index.html*

**Step 5:- Install php and required extensions.**

Extensions required may vary according to the project demands.

Commands:-

*apt install php -y*

*yum install php -y*

**Step 6:- Getting website files**

Here I used git repo, you can use different methods.

Website source code and other files.

Make sure you have git installed.

In ubuntu AMI , git is already installed.

Command:-

*git clone 'https://github.com/PratikBorge/php.git'*

**Step 7:- Moving website files to /var/www/html**

Moving all the files to /var/www/html as it is the default path of apache to host.

Command:-

*mv ./php/* /var/www/html*

**Step 8:- Restarting apache2 service**

Restarting apache2/httpd service

Commands:-
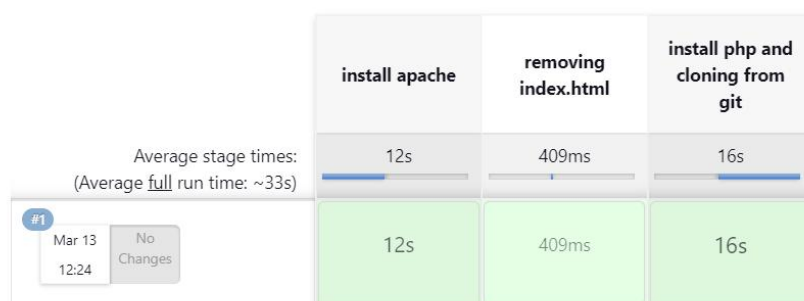
*systemctl restart apache2/httpd*

**Here is the jenkins pipeline with node.**

```
pipeline{
    agent{
        label 'agent3'
    }
    stages{
        stage("install apache"){
            steps{
                sh'''
                sudo apt install apache2 -y
                sudo systemctl start apache2
                '''
            }
        }
        stage("removing index.html"){
            steps{
                sh'''
                sudo rm -rf /var/www/html/index.html
                '''
            }
        }
        stage("install php and cloning from git"){
            steps{
                sh'''
                sudo apt install php -y
                sudo git clone 'https://github.com/PratikBorge/php.git'
                sudo mv ./php/* /var/www/html
                sudo systemctl restart apache2
                '''
            }
        }
    }
}
```

**Build Stages:-**

## Stage View

| | install apache | removing index.html | install php and cloning from git |
|---|---|---|---|
| Average stage times:<br>(Average full run time: ~33s) | 12s | 409ms | 16s |
| #1<br>Mar 13<br>12:24   No Changes | 12s | 409ms | 16s |

**Hosted website:-**