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Creating A Jenkins Pipeline for hosting a php website:

Code:

```
pipeline{
    agent{
        label 'agent1'
    }
    stages{
        stage('Pull a file from git')
        {
            steps{
                git 'https://github.com/jonastaedcke/prjct.git'
            }
        }
        stage('Installing Apache2')
        {
            steps{
                sh "sudo apt-get update"
                sh "sudo apt-get install apache2 -y"
                sh "sudo systemctl start apache2"
            }
        }
        stage('Install PHP')
        {
            steps{
                sh "sudo apt-get install php -y"
                sh "sudo apt install php-all-dev -y"
                sh "sudo apt install php-intl -y"
                sh "sudo apt install php-mbstring -y"
            }
        }
        stage('removing file from apache2 folder')
        {
            steps{
                sh "sudo rm -r /var/www/html/*"
            }
        }
        stage('Deploying website')
```

```

    {
      steps{
        sh " sudo cp -r ./* /var/www/html"
      }
    }
  }
}

```

Code Overview:

Overview

This pipeline is designed to pull a file from a Git repository, install Apache2, PHP, remove files from the Apache2 folder, and deploy.

Pipeline Structure

Agent: The pipeline is configured to run on an agent labeled 'agent1'.

Stages: The pipeline consists of several stages, each representing a distinct phase of the deployment process.

Stages

Pull a file from git

This stage pulls a file from the specified Git repository (<https://github.com/jonastaedcke/prjct-git>).

Installing Apache2

This stage installs Apache2 web server by updating the package list, installing Apache2, and starting the Apache2 service.

Install PHP

This stage installs PHP and its additional development packages (php-all-dev, php-intl, php-mbstring).

Removing files from Apache2 folder

This stage removes all files from the /var/www/html directory, which is the default Apache2 web root directory.

Deploying website

This stage deploys the pulled files from the Git repository to the Apache2 web root directory (/var/www/html), effectively deploying the website.

Output :

