**CI/CD pipeline for Deployment in nginx web application**

**Tools:**

Scm - GitHub

**CI/CD** pipeline - Jenkins

Web application - Nginx

**Process:**

Whenever the code(files) commits into the scm tool GitHub, with the settings of web hooks pipeline will be Triggered and will starts up on stage by stage and will Deploy the Required files in the nginx web application on specified path.

frontend part ===🡺 /var/www/html/dist

backend part ===🡺 /var/www/api/published

**Configurations:**

1) Creating GitHub private account with company profile.

2) Integrating GitHub account with Jenkins (generating Credential ids in Jenkins)

3) nginx web application integrating with the Jenkins (with SSH keys or using username and password)

**Designing pipeline as per above requirements**

**NOTE:** As per the present requirements no building artefacts, testing code coverage stages are not added, if needed will add in future stages

pipeline {

agent any

stages {

stage('Checkout') {

steps {

git credentialsId: 'rahul2', url: 'https://github.com/gcrahul/retailerpos\_Frontend.git'

}

}

stage('deploy nginx') {

steps {

sshagent(credentials: ['nginxagent']) {

sh '''

scp -o StrictHostKeyChecking=no -r /var/lib/jenkins/workspace/nginxdeploy ubuntu@172.31.33.55:/var/www/html/

'''

}

}

}

}

}

Above Cicd pipeline script has been tested locally on my Aws ec2 environment successfully Deployed files in nginx web application as per requirement and to implementation of cicd in our environments we needed of testing server(as uat) and for purpose production live execution of cicd a delicated Jenkins server on top of linux server has to be there as cicd pipeline going to implemented on multiple Applications

Required :

* 2 linux server needed (one is uat , other one is Jenkins cicd pipelines)
* A centralized Scm tool Github acc( This acc is integrated with Jenkins sever for all cicd pipelins )