Jenkins CI/CD pipeline

how to create a pipeline

there are two types

1.scripted pipeline

2.declarative pipeline

1.scripted pipeline

it will start with node,it will stage1 ,stage2 like stages

2.declarative pipeline

it will start with pipeline, here we specify where to excute ,whether master or slave,we have many stages in this, inside stages we have steps



declarative pipelines are most used in the project because when you want specifically execute second stage,third stage without excuting the previous stage we can executed and it will give the detailed output,it will give detailed output and logs

pipeline {

agent { label 'master'}

stages {

stage {'Cleanws'){

steps {

cleanWs()

}

}

stage('Git Clone'){

steps {

sshagent(['docker\_host]){

sh ' ssh -o strictHostKeyChecking=no ${hostname} sudo git clone <git url>

}

}

}

stage('Git Clone'){

steps {

sh ' ' '

sudo git clone <giturl>

' ' '

}

}

stage('list the cloned contents'){

steps {

sh ' ' '

pwd

ls

' ' '

}

}

--> save the pipline

--> build pipline

for example I am writting the pipeline for docker installation for brand new server

pipeline {

agent { label 'master'}

stages {

stage {'Cleanws'){

steps {

cleanWs()

}

}

stage ('check for the update'){

steps {

sshagent (['ec2-instance-keypair]){

sh ' sh ' ssh -o strictHostKeyChecking=no ${hostname} sudo yum update -y'

sh ' sh ' ssh -o strictHostKeyChecking=no ${hostname} sudo systemctl start docker

}

}

stage('install the docker images'){

steps{

sshagent (['ec2-instance-keypair]){

sh ' sh ' ssh -o strictHostKeyChecking=no ${hostname} sudo docker pull centos

sh ' sh ' ssh -o strictHostKeyChecking=no ${hostname} sudo docker pull ubuntu

sh ' sh ' ssh -o strictHostKeyChecking=no ${hostname} sudo docker pull nginx

}

}

}