Jenkins and agent artitecture

\*First create Jenkins and Jenkins-agent instances

\* Jenkins just install Jenkins installation that it

\* Jenkins-agent install java jdk of Jenkins single command and also it should must have aws IAM role

\*Jenkins publicip:8080 port login install available plugins first

**\*\*Plugins:\*\***

\* Pipeline stage view

\* AnsiColor

\* Pipeline Utility Steps

\* Nexus Artifact Uploader

\* Rebuild

\* sonarqube scanner

Restart Jenkins once plugins are installed

Configure aws credentials in jenkins agent. you should configure with normal user.

Agent

1. Go to [Dashboard](http://98.82.201.55:8080/) /[Manage Jenkins](http://98.82.201.55:8080/manage/)/[Nodes](http://98.82.201.55:8080/manage/computer/)/Configure Node Monitors

Mark below like this because agent may be ofline there is no space that why

A screenshot of a computer

AI-generated content may be incorrect.

Create new node called AGENT-1 jenkins -agent configure below like this

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A screenshot of a chat

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\*We should give private ip of Jenkins-agent in host is private ip of Jenkins-agent

Username:ec2-user

Password:DevOps321

\*And also add credentials required here that it launch agent-1

\*Agent-1 written in Jenkins configuration below like this

pipeline {

agent {

        label 'AGENT-1'

    }

Now Jenkins configuration

Dashboard /new iteam /

\*Create a pipeline for jenkins and configure like below

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A screenshot of a chat

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That it what ever file u have it can be deploy and runed in agent-1 instance only what we understand from here is

Jenkins 🡪 is integration with nexus ,sonarqube

Jenkins agent 🡪is deploy that it

We have done some project right

Backend 🡪 Jenkins 🡪 countinous integration 🡪up stream job

Backend-deplo y🡪 Jenkins-agent 🡪 countinous ideployment 🡪 down stream job

NEXUS

Nexus also same subscribe and then port no 8081

Create repository in maven (hosted) it should be re-deploy

And also need create nexus credentials inside Jenkins creadentials

Give nexus-auth 🡪

Username:admin

Password:admin123