# TRAINING CONTENT

## Continuous Integration

## Session-3

YOUR NEXT DESTINATION

OF SOFTWARE OUTSOURCING

# Lecture Outline

- Node Configuration
- User Input in Jenkins
- Parameterized job Configuration
- What is Declarative Pipeline
- How to write Declarative Pipeline
- References


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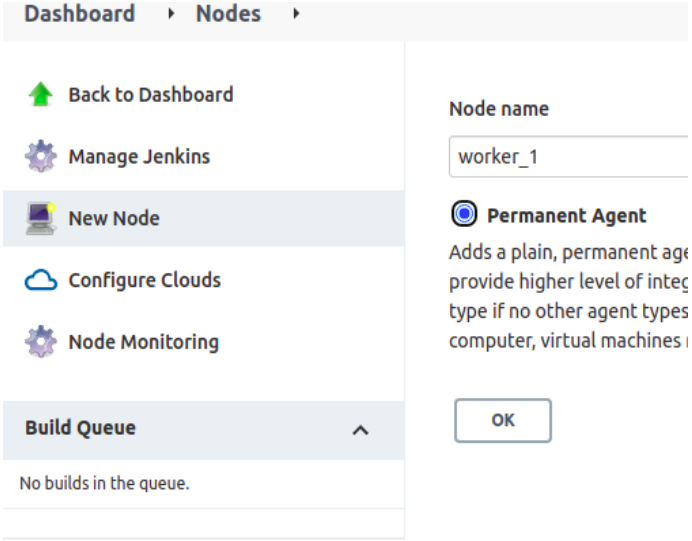
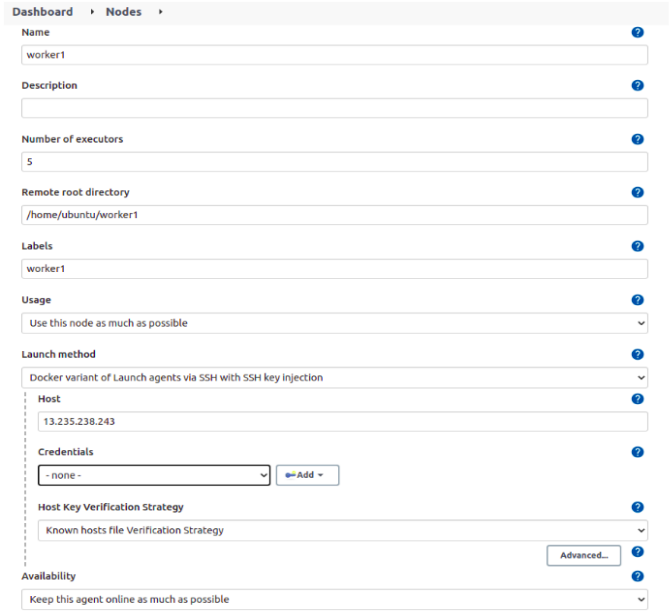
# Manage Jenkins: Manage Nodes

## Pre-requisite: Install JAVA in Node machine

Go to manage Jenkins, in System Configuration we will see Manage Nodes and Clouds option. Click there. Node list will appear as we have seen in earlier slide.
Give a name of the Node, check Permanent Agent and Click ok.



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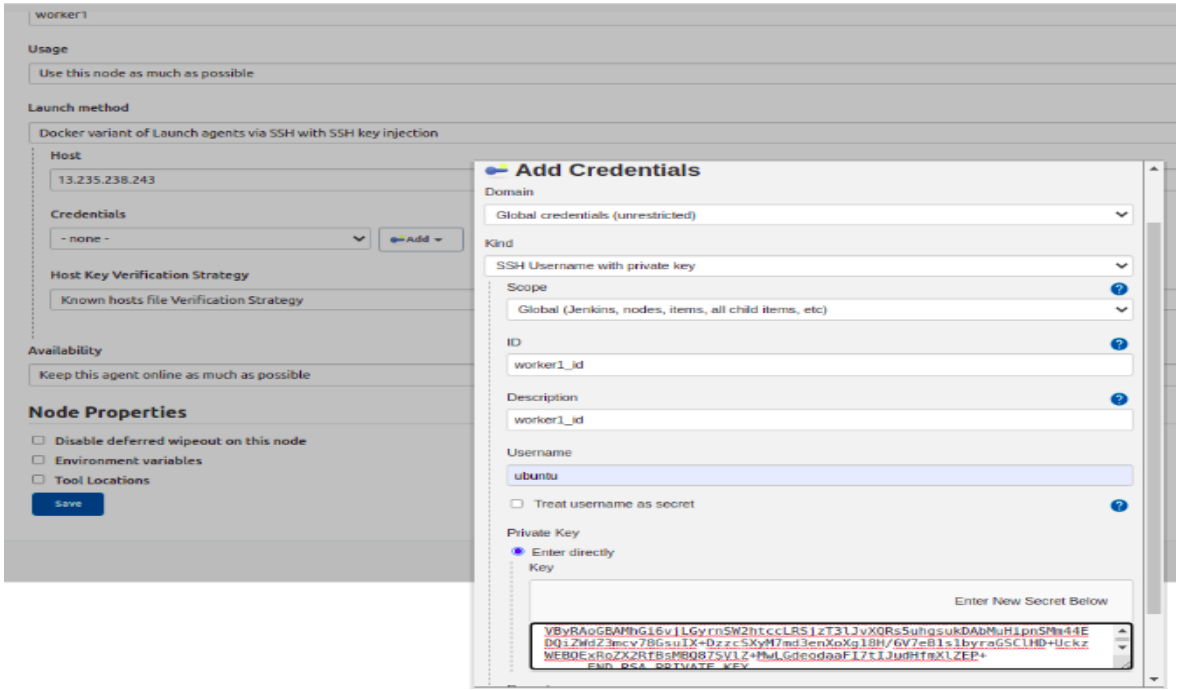
# Manage Jenkins: Manage Nodes

Slave node's credential:In credential section lets create a credential
Click add and go add credential. Select SSH Username with private key from the list, Give a any id name, Server username which was ubuntu, Give the private key from the pem file and click Enter





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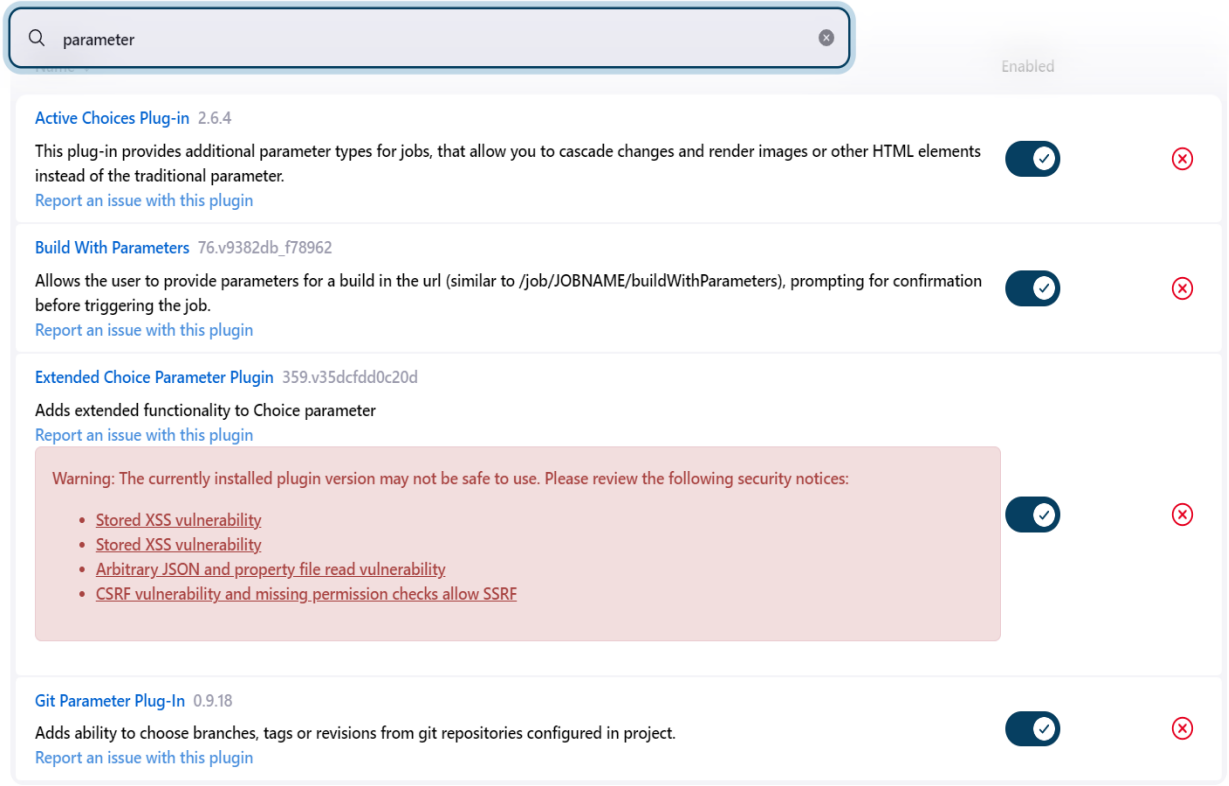
# Parameterized job Plugins



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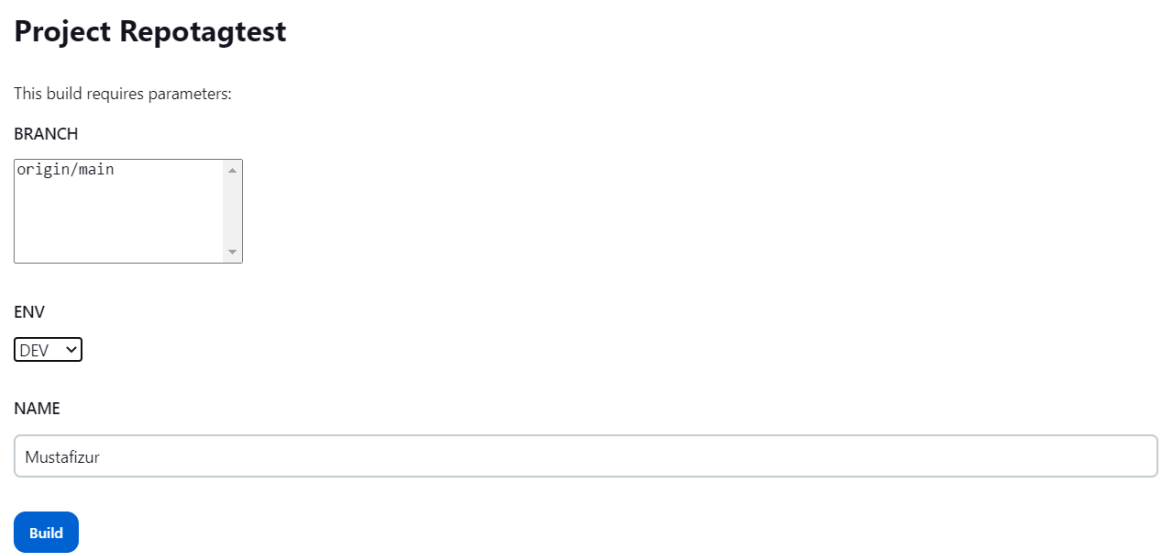
# Parameterized job in Jenkins



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# What is pipeline in Jenkins

In Jenkins, a pipeline refers to a series of steps or actions that are executed in a specific order to build, test, and deploy software applications. A pipeline is defined using a domain-specific language called the Jenkins Pipeline DSL(Domain Specific Language) or using a visual editor provided by Jenkins.

Two types of pipeline

- Declarative Pipeline
- Scripted Pipeline(Based on Groovy Language


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# Declarative Pipeline

```
pipeline {
    agent any

    tools {
        maven 'local_maven'
        jdk 'JDK_11'
        git 'local_git'
    }
    stages {
        stage('git clone') {
            steps {
                git branch: 'main', credentialsId: '93d5da1b-dcd0-4e46-8caa-ad6647ecc52f', url: 'http://test-gitlab.local.com/gitlab-instance-148b6b38/myfirstproject.git'
            }
        }

        stage('Build stage') {
            steps {
                echo 'This is build stage'
            }
        }

         stage('Test stage') {
            steps {
                echo 'This is Test stage'
            }
        }

        stage('Deploy stage') {
            steps {
                echo 'This is deploy stage'
            }
        }
    }

    post {
        always {
            echo 'I will always say Hello again!'
        }
    }
}
```



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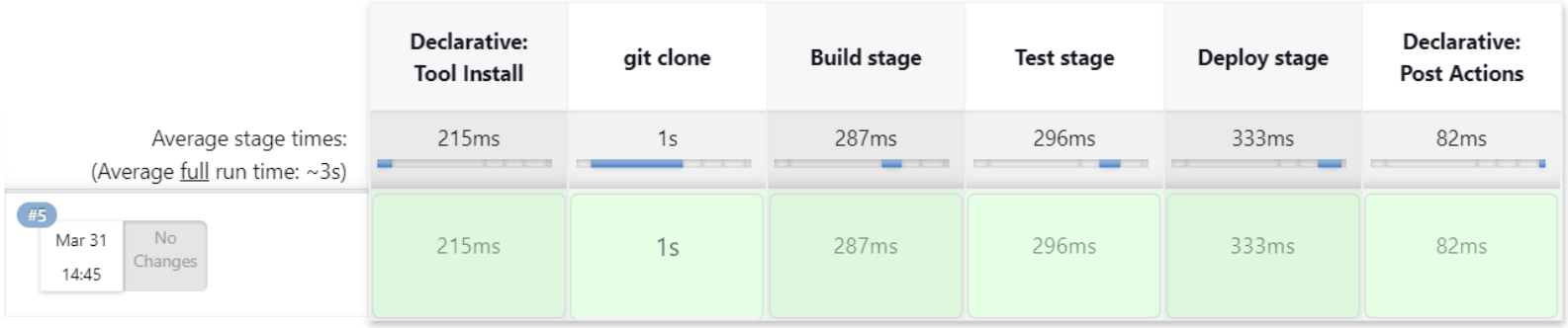
# Declarative Pipeline

## Stage View



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# References

https://www.jenkins.io/doc/book/pipeline/syntax/



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# Thank You

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