Jenkins Administration

Security and maintenance

Agenda

- Pipeline and types

- Advanced Jenkins Configuration

- Jenkins Security

- Jenkins Maintenance

Pipeline and types

	Declarative	Scripted
Pipeline code validation at startup	Validation will be done at a time	Validation will be done line by line
Restart from stage	Can again restart from any stage	Can't restart from any stage
Declarative pipeline options block	he timestamps in console log. The ANSI color output. The 1-minute timeout for the Build stage, and 2 minutes timeout for the Test stage.	Same here also but require different code
Skipping stages with when block.	Skipping a stage can be done using when block	Skip can be done using if condition

```
//Declarative Pipeline

pipeline {
    agent none
    stages {
        stage('Clone') {
            agent { label 'manhnv1_slave' }
            // TODO
        }
        stage('Build') {
            agent { label 'manhnv2_slave' }
            // TODO
        }
        stage('Test') {
            agent { label 'master' }
            // TODO
        }
    }
}
```

```
//Scripted Pipeline

stage('Clone') {
    node('manhnv1_slave') {
        // TODO
    }
}
stage('Build') {
    node('manhnv2_slave') {
        // TODO
    }
}
stage('Test') {
    node('master') {
        // TODO
    }
}
```

Advanced Jenkins Configuration

Topics:

    A. Command Line - Jenkins

    B. Master/Slave Distributed Builds

    C. Parameterized Builds and Triggers

Jenkins Security

Topics:

    A. Remote Authentication

    B. User Authorization

Jenkins Maintenance

Topics:

A. Memory Management

B. Backup - Backup Plugin

C. Performance

1. Hudson global-build-stats plugin
2. Build History Metrics plugin