

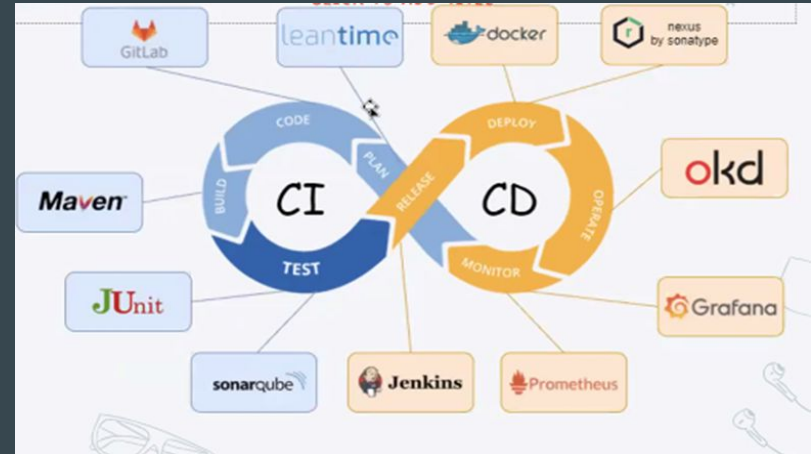
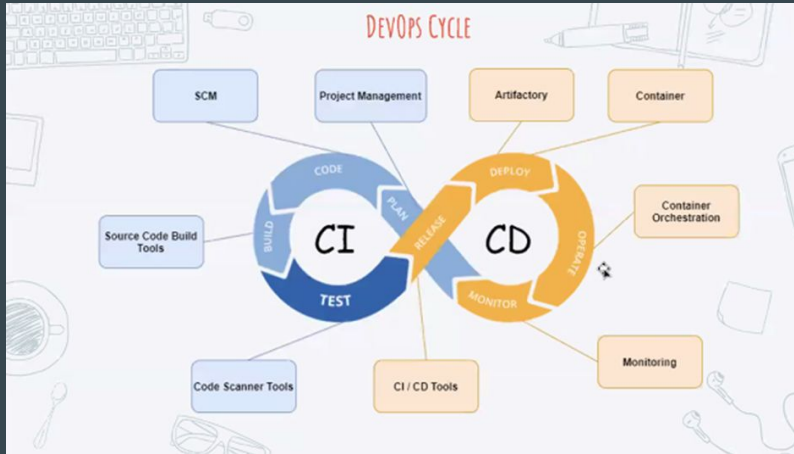
Jenkins

...



Apa itu Jenkins?

Jenkins merupakan sebuah automation server berbasis open source. Salah satu kegunaan Jenkins adalah untuk mengimplementasikan Continuous Integration dan Continuous Delivery atau biasa yang disebut CI/CD proses. Lebih jelasnya Jenkins memudahkan untuk proses seperti testing, building, dan deployment yang dapat dijalankan secara otomatis.



Jenkins Pipeline

...

Apa itu Jenkins Pipeline?

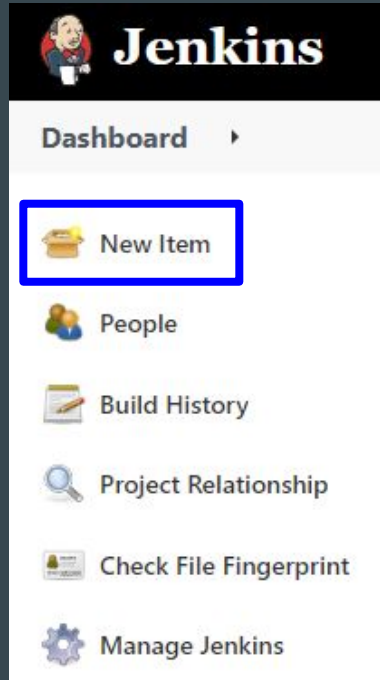
- **Jenkins pipeline** adalah single platform yang menjalankan seluruh pipeline sebagai kode
- Semua standard jobs yang ditentukan oleh Jenkins ditulis secara manual dalam satu skrip dan dapat disimpan dalam VSC (Visual Studio Code)
- Dalam membangun beberapa jobs untuk setiap fase, dapat membuat kode seluruh workflow dan memasukkannya ke dalam **Jenkinsfile**

Apa itu Jenkinsfile?

- Text file yang menyimpan pipeline sebagai kode, dan dapat diperiksa ke dalam SCM di sistem local
- Memungkinkan developers untuk mengakses, mengedit, dan memeriksa kode setiap saat
- Ditulis menggunakan **groovy dsl**

Create Jenkins Pipeline

- Masuk ke Jenkins dan pilih “New Item” dari Dashboard



- Masukkan nama untuk pipeline dan pilih “Pipeline”. Selanjutnya klik “OK” untuk melanjutkan

Enter an item name

sample test

» Required field

**Freestyle project**

This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

**Pipeline**

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

**External Job**

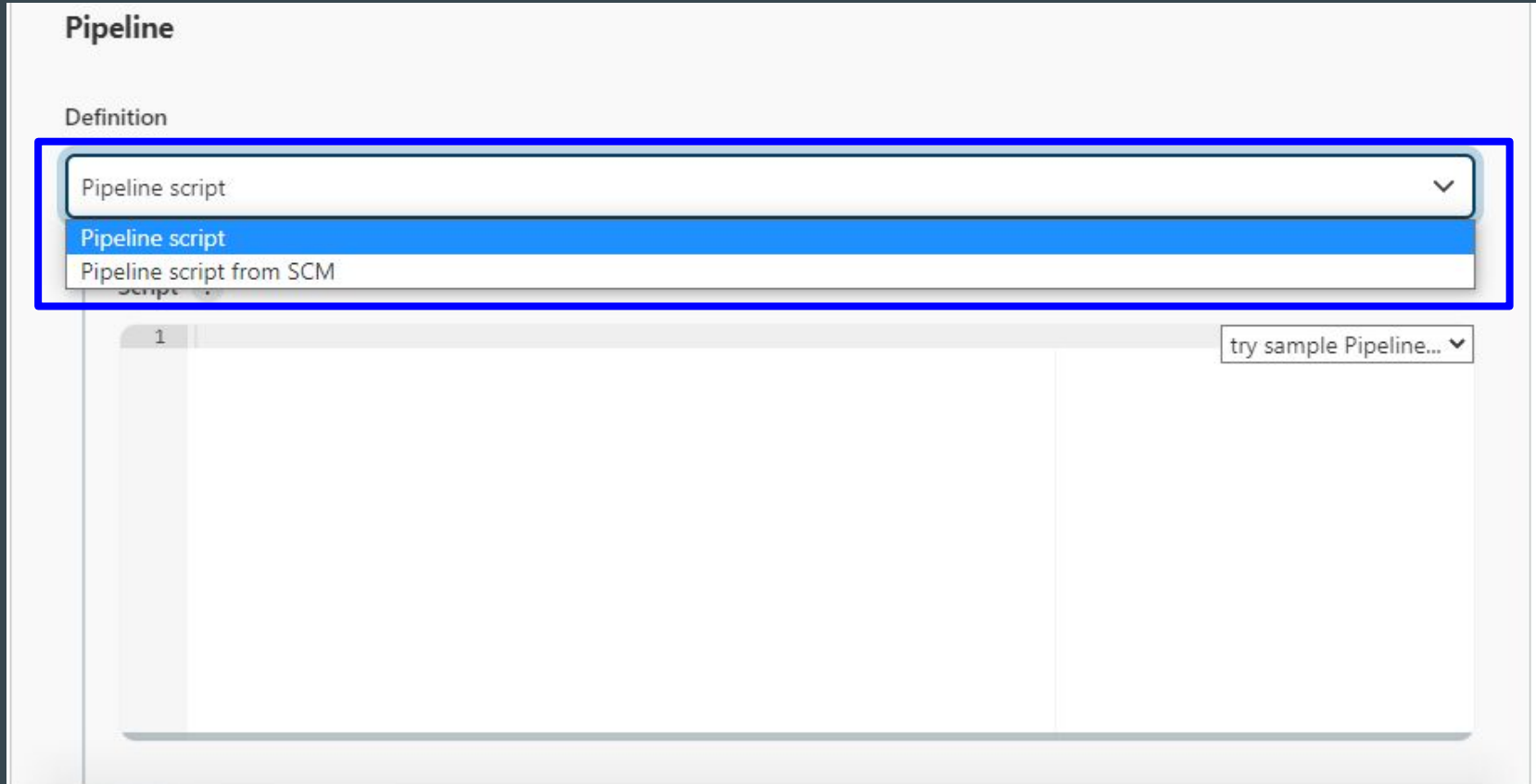
This type of job allows you to record the execution of a process run outside Jenkins, even on a remote machine. This is designed so that you can use Jenkins as a dashboard of your existing automation system.

**Multi-configuration project**

Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

OK

- Scroll down hingga ke Pipeline dan pilih apakah ingin pipeline “Script/Script from SCM”



- Jika menginginkan Pipeline Script, lalu pilih “Pipeline script” dan mulai mengetik kode

Pipeline

Definition

Pipeline script

Script ?

```
1 ▾ node ('master'){  
2 ▾   stage('Prepare') {  
3     echo 'Ini adalah stage prepare'  
4   }  
5 ▾   stage('Deploy') {  
6     echo 'Ini adalah stage deploy'  
7   }  
8 }
```

try sample Pipeline... ▾

- Jika menginginkan Pipeline from SCM, pilih "Pipeline from SCM" dan pilih SCM. Dalam demo ini, akan menggunakan Git, masukkan Repository URL (bila repo private, harus memakai credentials), dan branch yang akan digunakan

Pipeline

Definition

Pipeline script from SCM

SCM ?

Git

Repositories ?

Repository URL ?

https://gitlab.com/amartyafitriyani/training.git

Credentials ?

- none -

Add

Advanced...

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

main

Add Branch

- Di dalam Script Path adalah nama jenkinsfile yang akan diakses dari SCM (Git) untuk dijalankan. Finally klik “Apply” dan “Save”.

Script Path ?

Jenkinsfile

☒ Lightweight checkout ?

[Pipeline Syntax](#)

[Save](#) [Apply](#)

Amartya Fitriyani > Training > Repository

main training / +

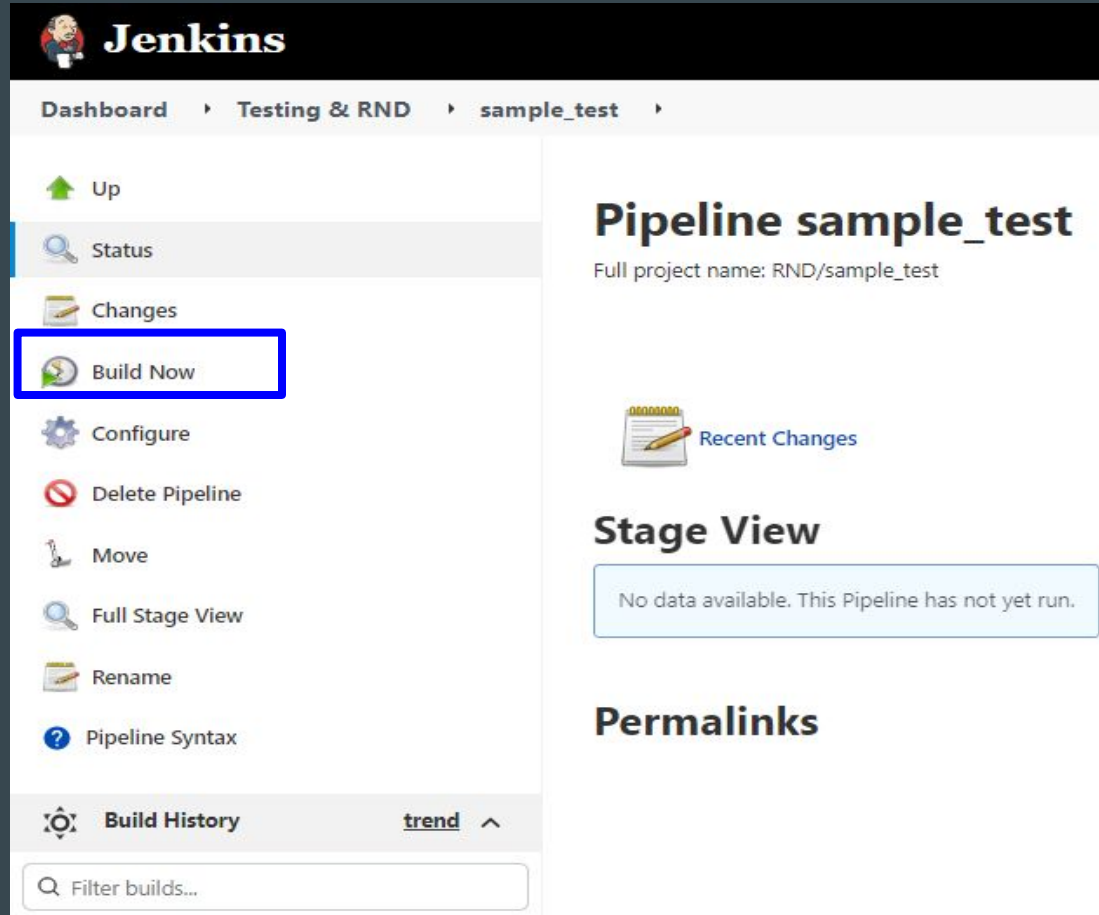
History Find file Web IDE v v

cd946299

Add file Jenkinsfile
Amartya Fitriyani authored just now

Name	Last commit	Last update
Jenkinsfile	Add file Jenkinsfile	just now
README.md	Initial commit	2 months ago
Test.txt	Menambahkan file test	2 months ago

- Sampai disini, kita bisa mengetes build pada Jenkins, klik “Build Now”



The screenshot shows the Jenkins web interface. At the top, there's a black header with the Jenkins logo and name. Below it, a breadcrumb trail reads "Dashboard > Testing & RND > sample_test >". The left sidebar contains a list of actions: "Up", "Status", "Changes", "Build Now" (highlighted with a blue box), "Configure", "Delete Pipeline", "Move", "Full Stage View", "Rename", and "Pipeline Syntax". At the bottom of the sidebar is a "Build History" section with a "trend" link and a search bar labeled "Filter builds...". The main content area on the right is titled "Pipeline sample_test" and shows the "Full project name: RND/sample_test". Below this is a "Recent Changes" section with a notepad icon. The "Stage View" section displays a message: "No data available. This Pipeline has not yet run." The "Permalinks" section is also visible at the bottom right.

Jenkins

Dashboard > Testing & RND > sample_test >

Up

Status

Changes

Build Now

Configure

Delete Pipeline

Move

Full Stage View

Rename

Pipeline Syntax

Build History trend ^

Filter builds...

Pipeline sample_test

Full project name: RND/sample_test

Recent Changes

Stage View

No data available. This Pipeline has not yet run.

Permalinks

➤ Hasil akhir build pada Jenkins

