

LAPORAN PRAKTIKUM

Keamanan Sistem Informasi (KSI)

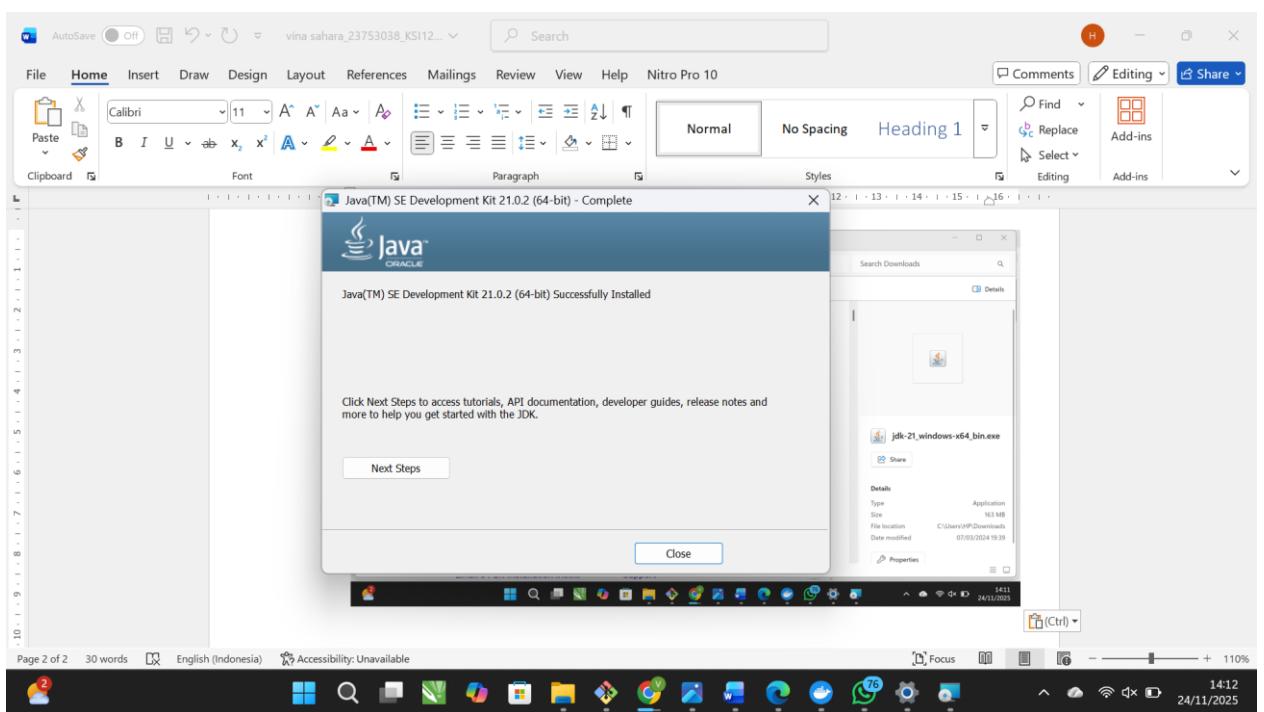
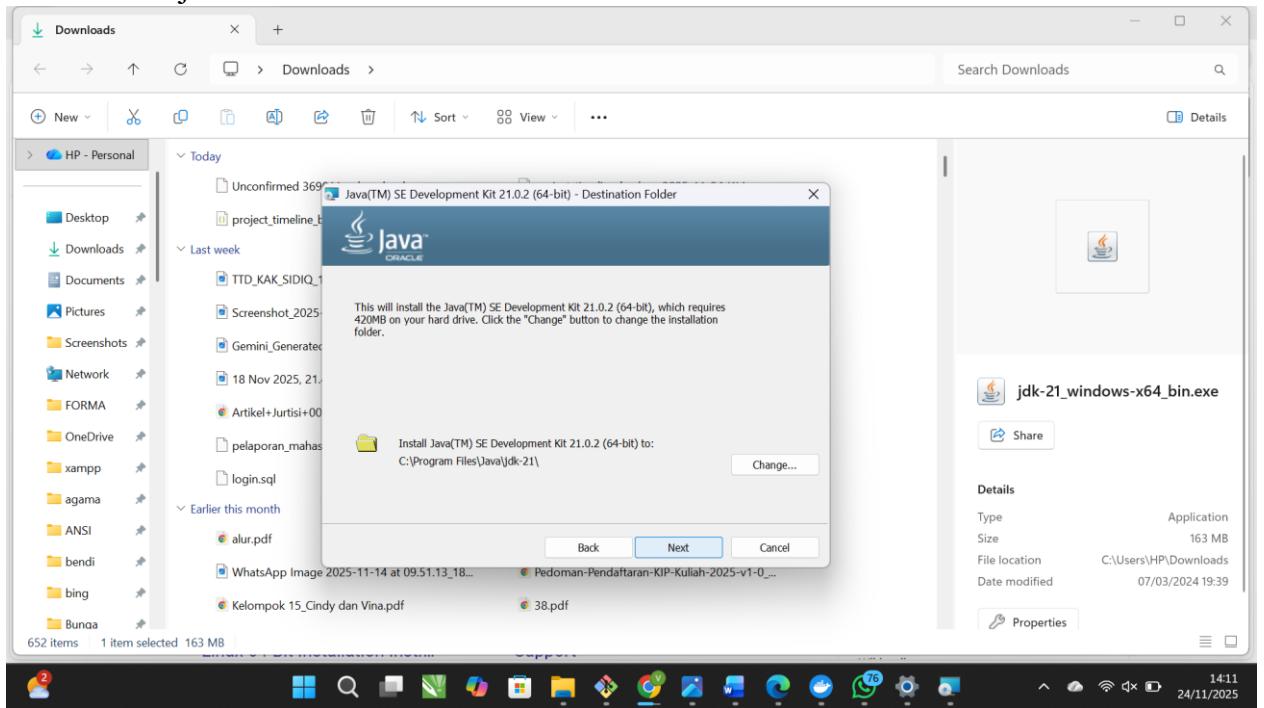
Disusun oleh
Vina Sahara
NPM 23753038

Sebagai salah satu syarat untuk tugas KSI
Manajemen informatika
Jurusan teknologi informasi

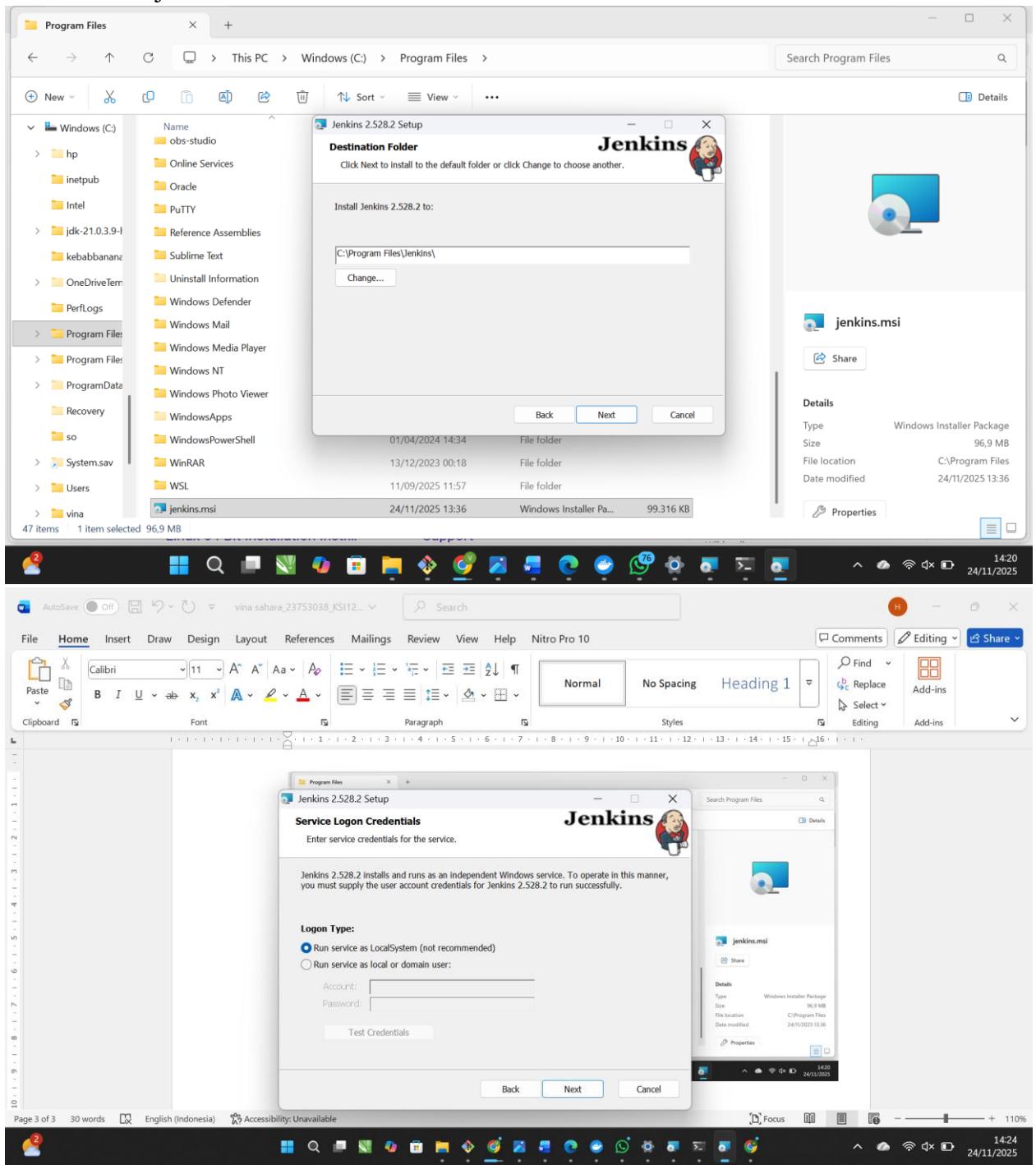


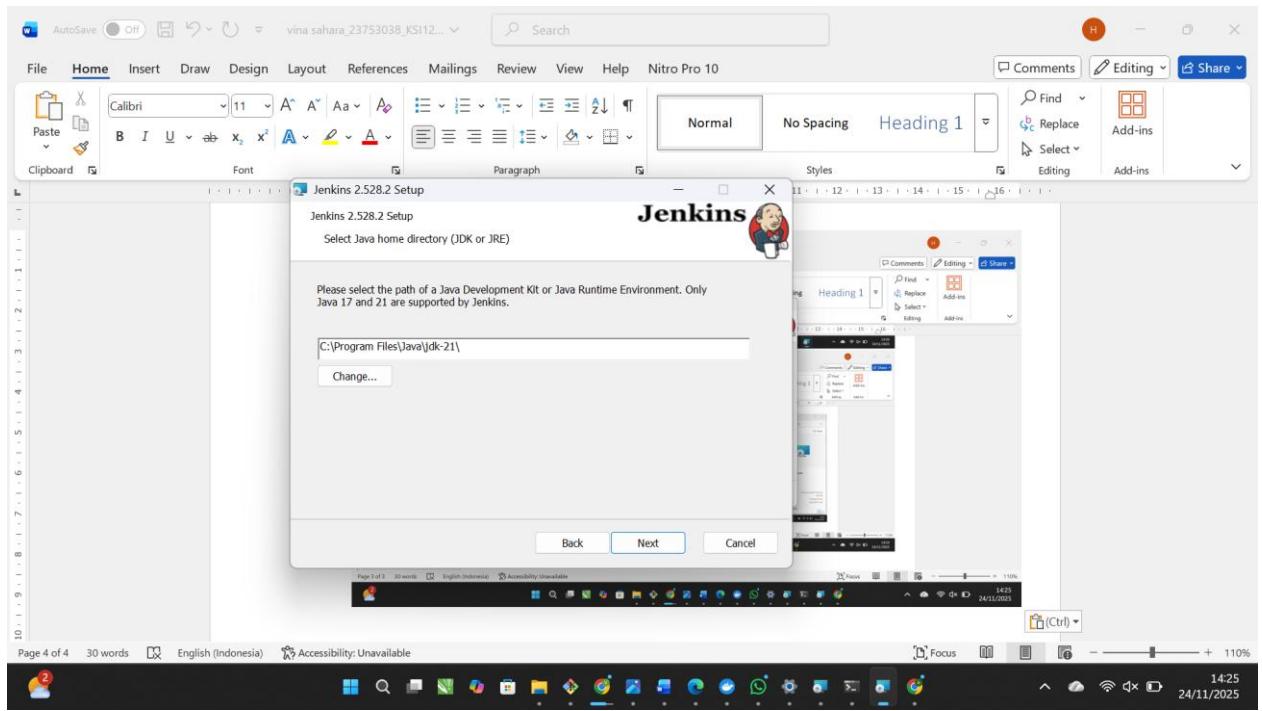
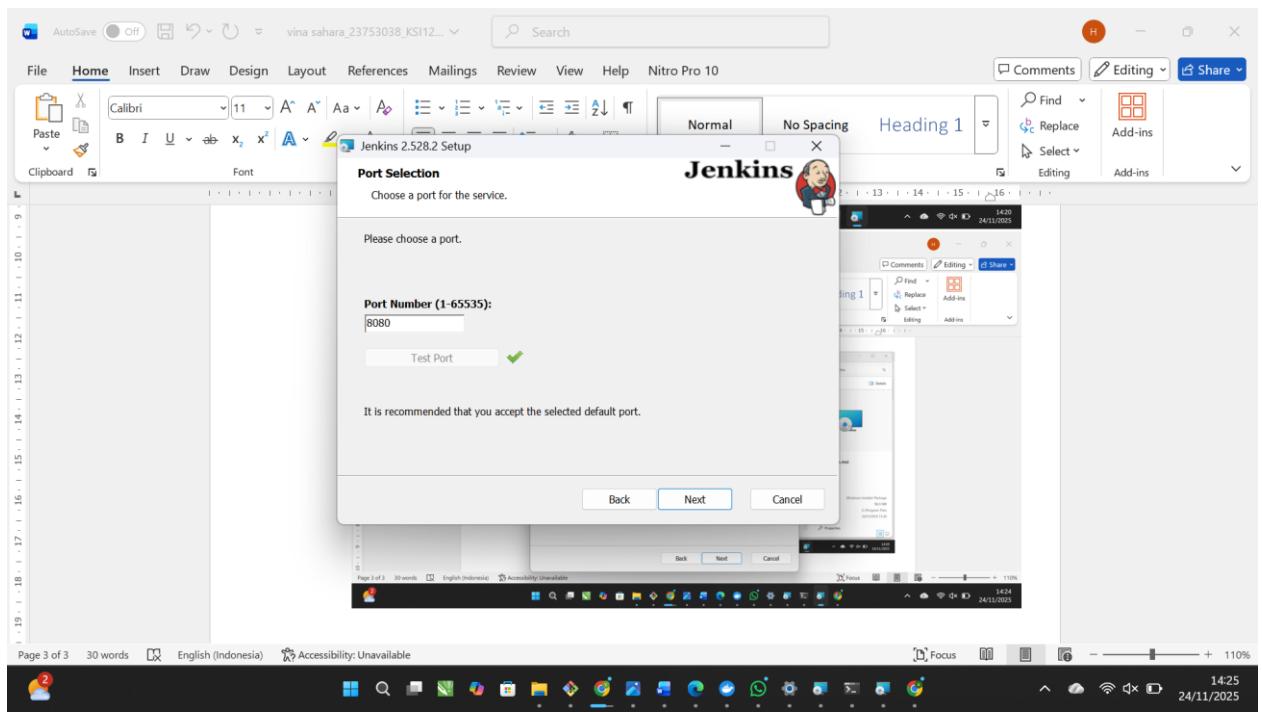
POLITEKNIK NEGERI LAMPUNG
BANDAR LAMPUNG
2025

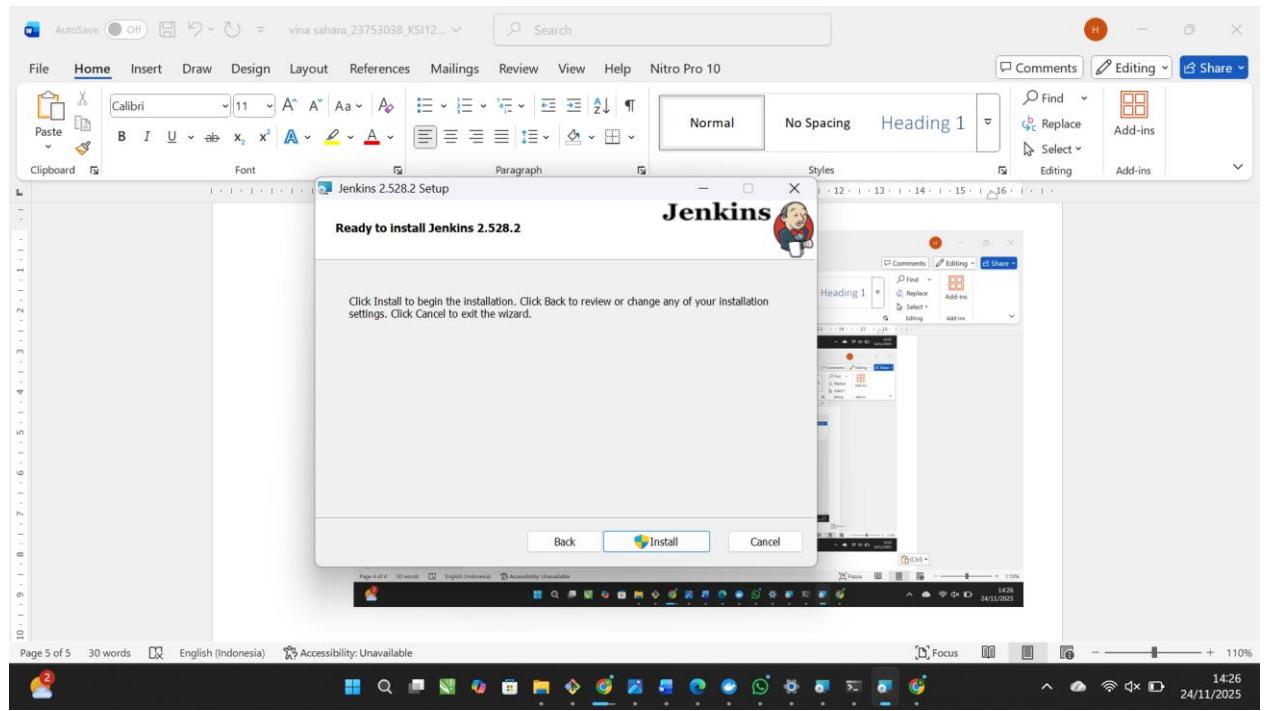
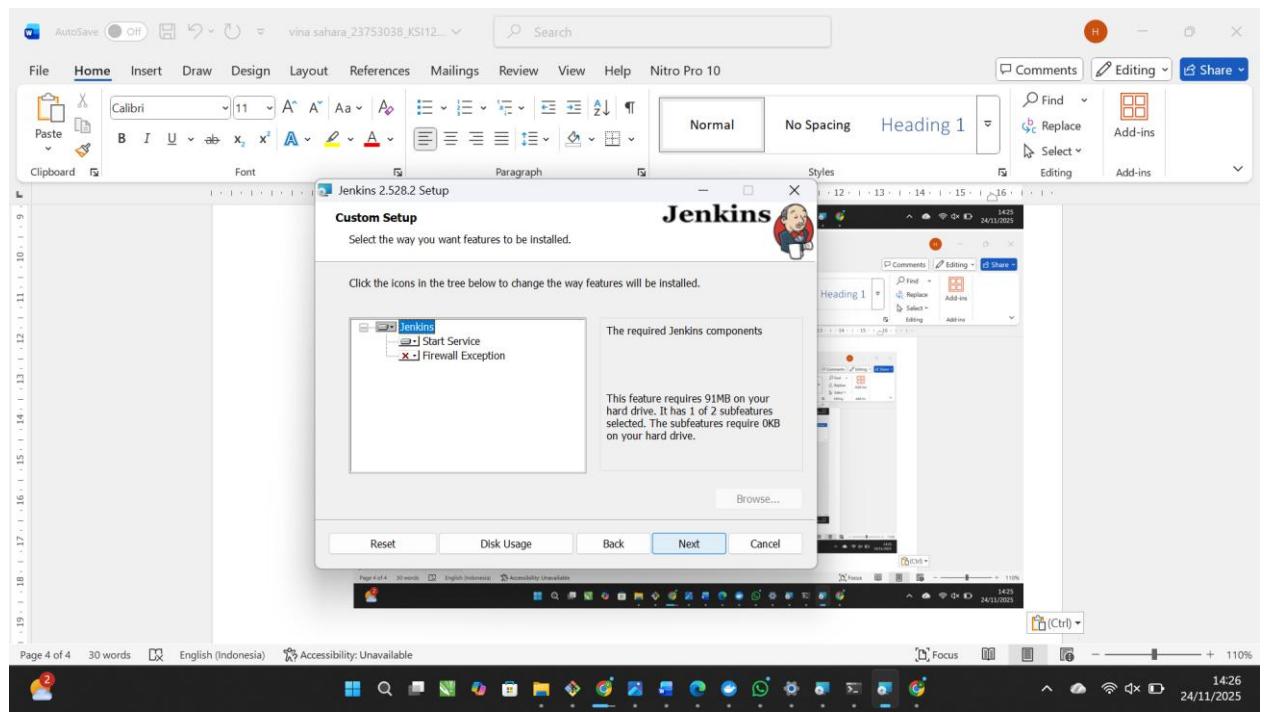
1. Install java



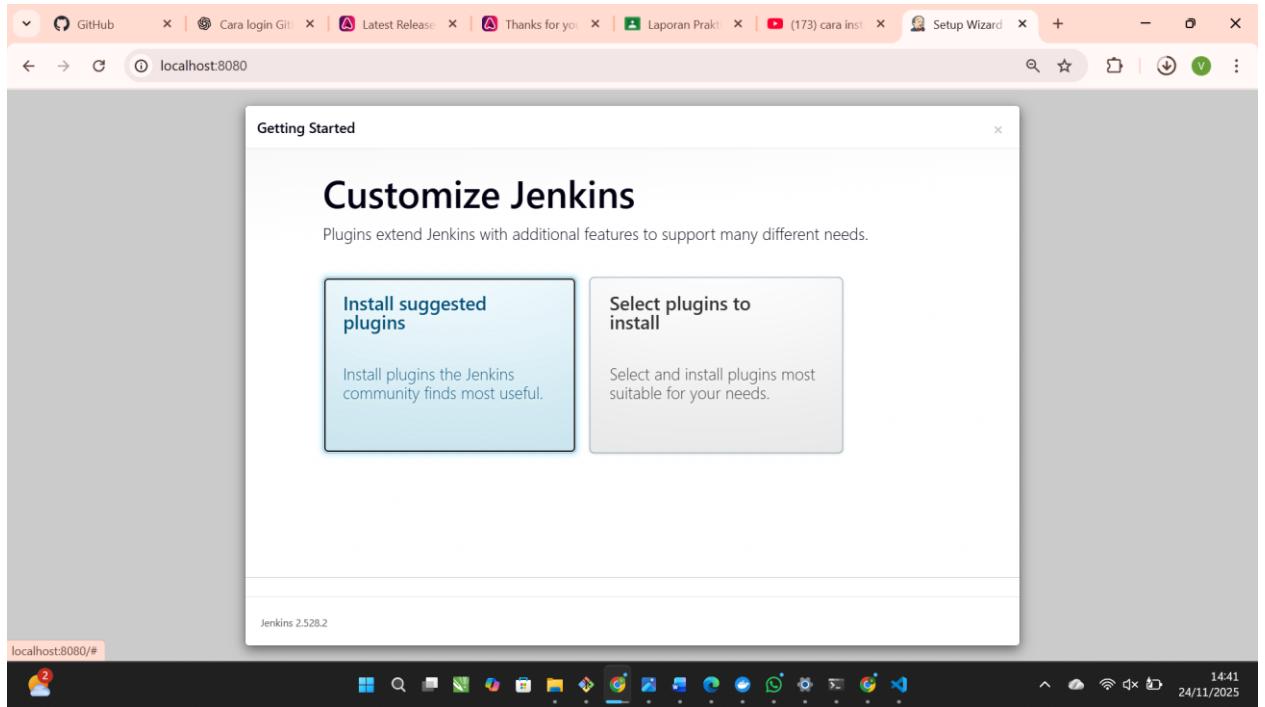
- Install jenkins



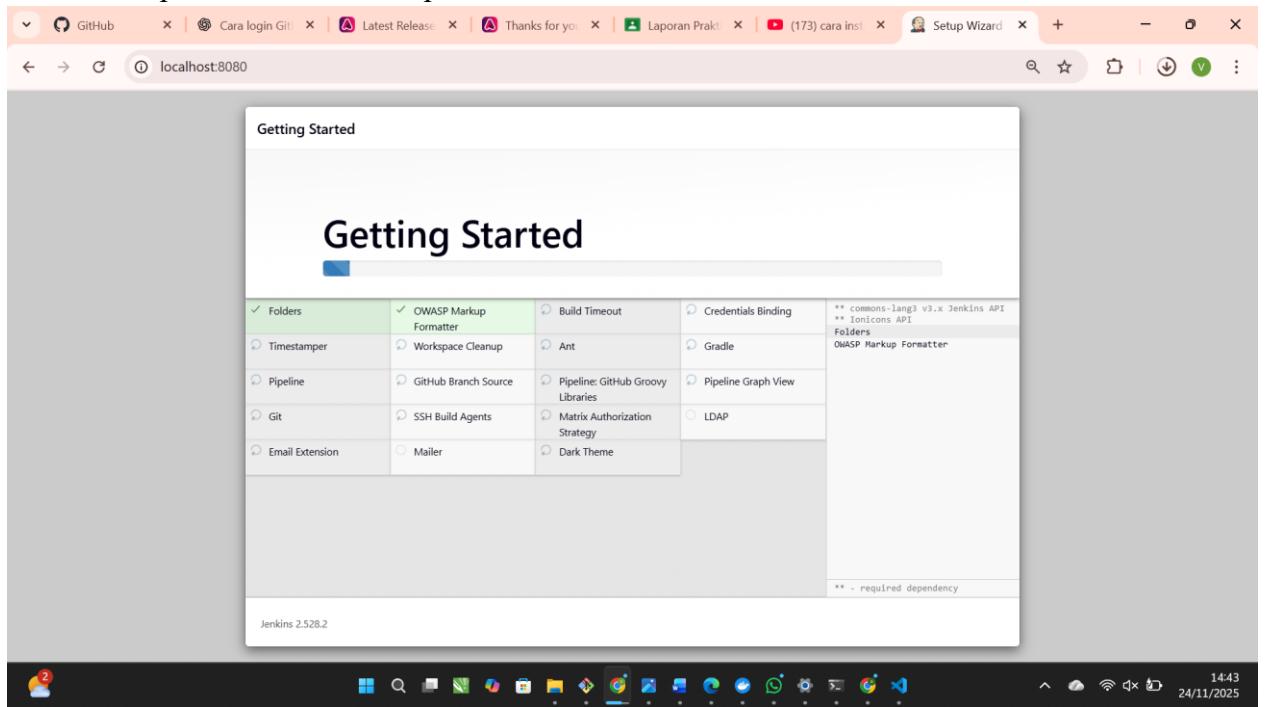




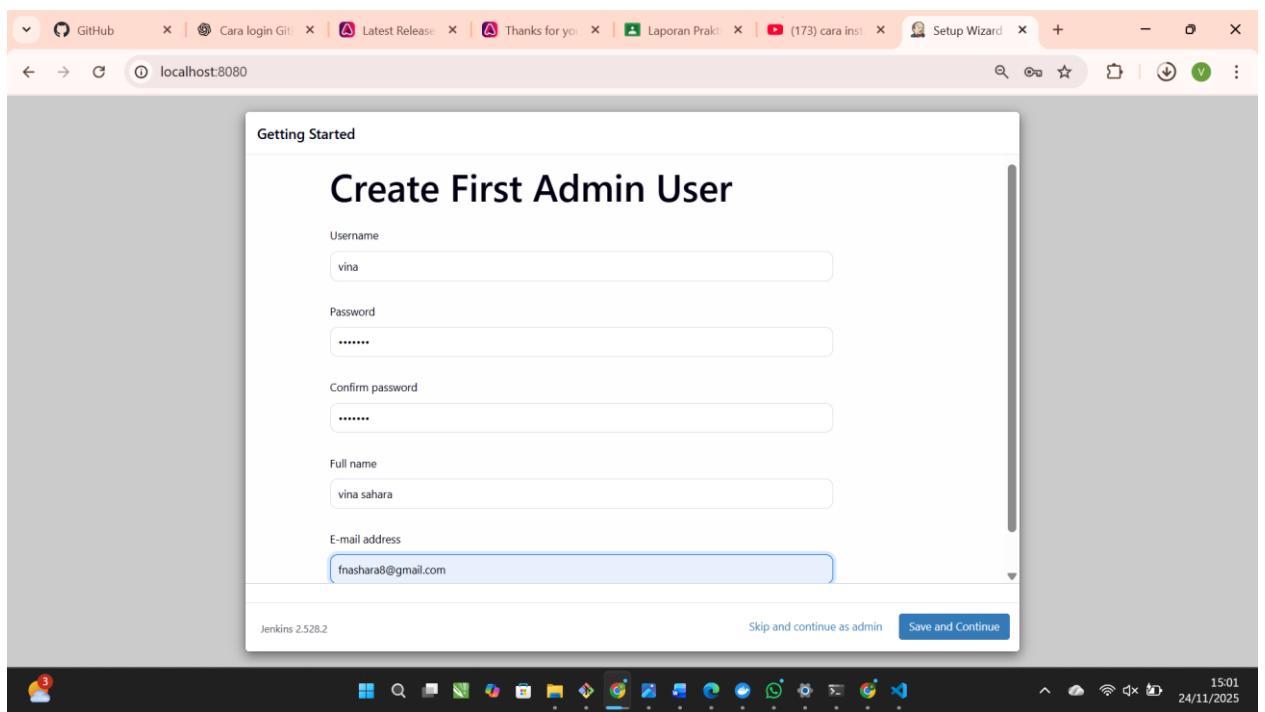
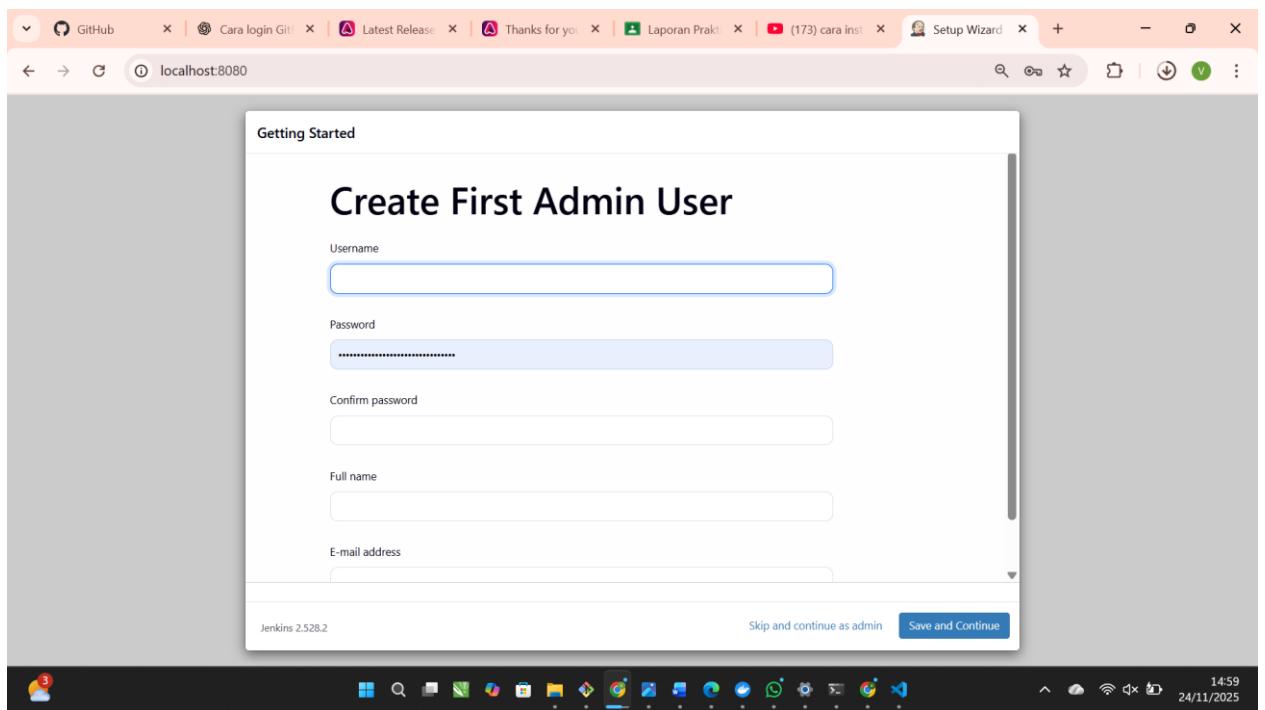
- Jika sudah selesai masuk ke localhost:8080 dan tampilan akan seperti ini. Pilih install suggested plugins

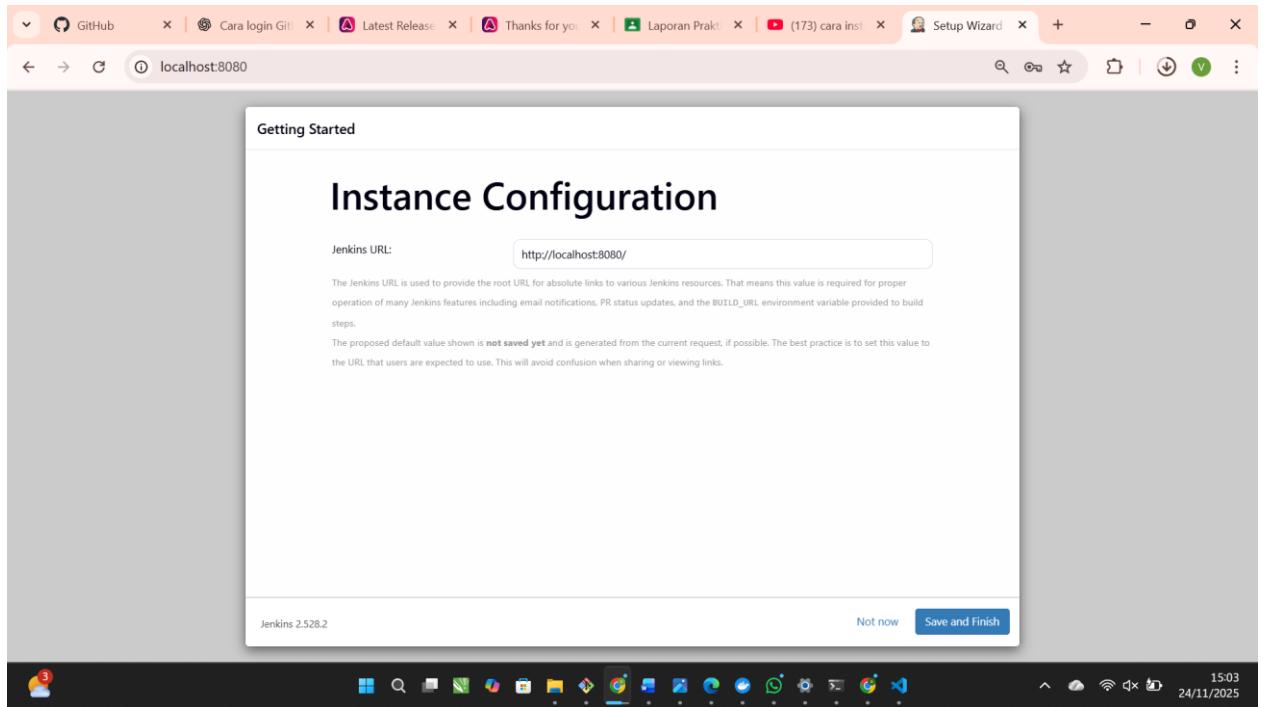


- Tampilan akan beralih seperti ini



- Setelah tampilan diatas selesai maka tampilan akan muncul seperti ini kita mengisi user admin





http://localhost:8080/

Jenkins

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Build Queue

No builds in the queue.

Build Executor Status

0/2

Create a job

+ Set up a distributed build

Set up an agent

Configure a cloud

Learn more about distributed builds

REST API Jenkins 2.528.2

- Konfigurasi Jenkins dan Github

The screenshot shows the Jenkins Manage Jenkins page at localhost:8080/manage/. The main header says "Manage Jenkins". A search bar contains "Search settings". Below it is a message: "Building on the built-in node can be a security issue. You should set up distributed builds. See [the documentation](#)". Three buttons are available: "Set up agent", "Set up cloud", and "Dismiss".

System Configuration

System
Configure global settings and paths.

Install github integration

Name ↓	Health	Enabled
GitHub Integration Plugin 0.7.2 GitHub Integration Plugin for Jenkins	87	<input checked="" type="checkbox"/> ×
GitHub plugin 1.45.0		

- Buat toke

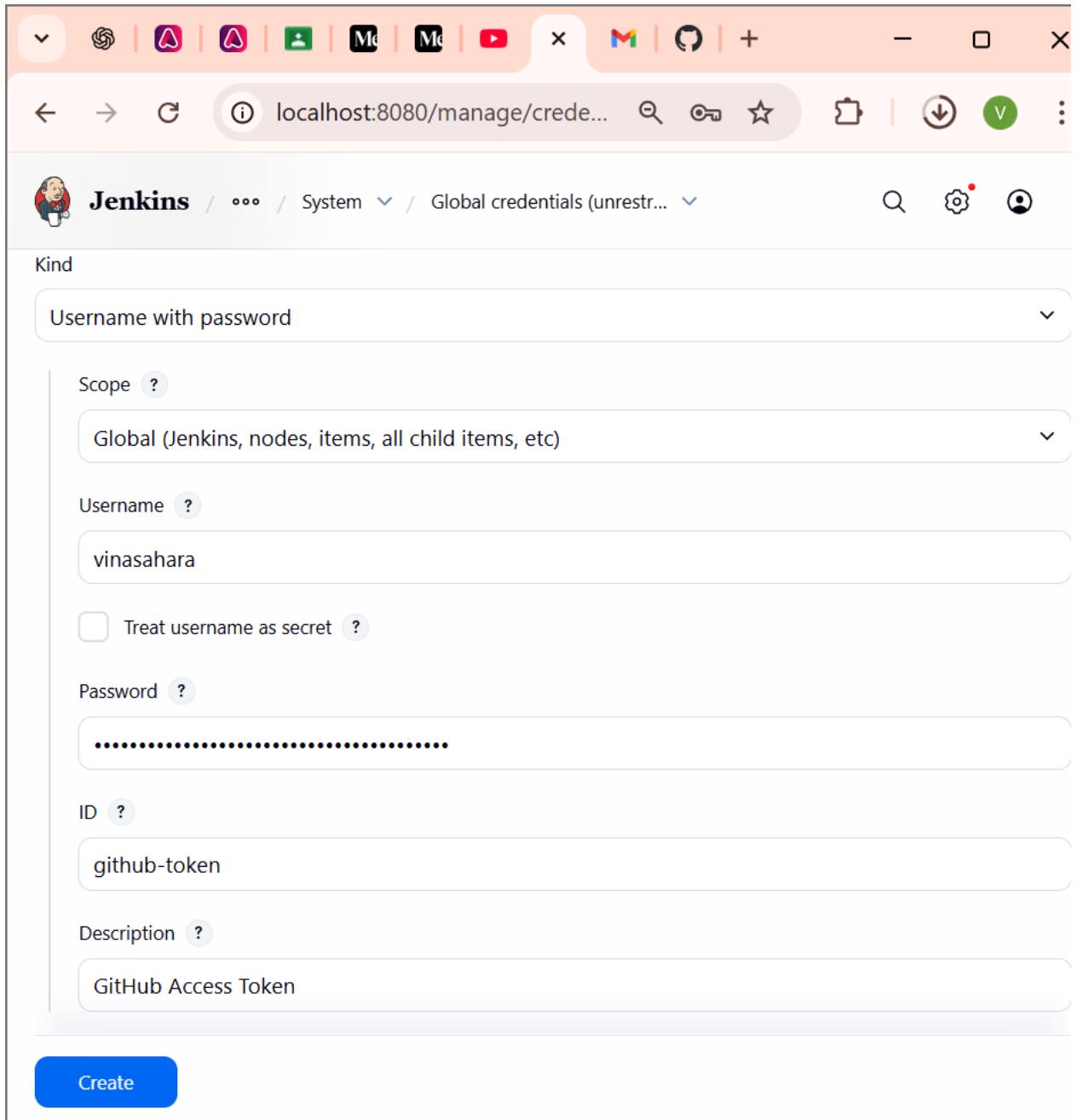
The screenshot shows a browser window with multiple tabs open at the top. The main content area displays two sections of the GitHub profile settings:

- Developer settings:** This section includes options for integrations like Applications and Scheduled reminders, and developer-related settings like Location, Display current local time, and ORCID ID. It also features a "Connect your ORCID iD" button and a note about privacy. A green "Update profile" button is at the bottom.
- Contributions & activity:** This section contains checkboxes for "Make profile private and hide activity" and "Include private contributions on my profile".
- Tokens:** This section shows a list of token types: GitHub Apps, OAuth Apps, Personal access tokens, and Fine-grained tokens. "Personal access tokens" is currently selected. A sub-section titled "Personal access tokens (classic)" shows a key icon and the message "No personal access token created". It provides instructions for generating a token for API access and links to "Generate new token" and "GitHub API". A note at the bottom explains the function of classic tokens.

- Buat token dengan nama PATH

The screenshot shows a browser window titled "New Personal Access Token (Classic)" from the URL github.com/settings/tokens/new. The left sidebar has sections for "GitHub Apps", "OAuth Apps", and "Personal access tokens", with "Tokens (classic)" selected. The main content area is titled "New personal access token (classic)". It includes a note about personal access tokens functioning like OAuth tokens and can be used for Git over HTTPS or API authentication. A "Note" field contains the text "PATH_jenkins". A "What's this token for?" section is present. An "Expiration" dropdown is set to "No expiration", with a note from GitHub recommending an expiration date for security. The "Select scopes" section allows selecting access levels for repositories. The "repo" scope is checked, granting full control of private repositories. Other available scopes include "repo_status", "repo_deployment", "public_repo", "repo:invite", and "security_events". The bottom of the screen shows a Windows taskbar with various pinned icons and the date/time "24/11/2025 16:09".

- masuk Global Tool Configuration



The screenshot shows the Jenkins Global credentials configuration page. The URL in the browser is `localhost:8080/manage/credentials/`. The page title is "Jenkins / System / Global credentials (unrestricted)". The "Kind" dropdown is set to "Username with password". The "Scope" dropdown is set to "Global (Jenkins, nodes, items, all child items, etc)". The "Username" field contains "vinasahara". The "Treat username as secret" checkbox is unchecked. The "Password" field contains a redacted password. The "ID" field contains "github-token". The "Description" field contains "GitHub Access Token". A blue "Create" button is at the bottom.

Kind

Username with password

Scope

Global (Jenkins, nodes, items, all child items, etc)

Username

vinasahara

Treat username as secret

Password

.....

ID

github-token

Description

GitHub Access Token

Create

- Hubungkan Repo GitHub ke Jenkins Job

The screenshot shows the Jenkins interface for creating a new job. The URL in the browser is `localhost:8080/view/all/newJob`. The page title is "New Item". A search icon and a star icon are visible in the top right. Below the title, there's a breadcrumb navigation: "Jenkins / All / New Item". On the far right, there are icons for search, settings, and user.

The main form has a text input field labeled "Enter an item name" containing "vina.github".

The "Select an item type" section contains four options:

- Freestyle project**: Described as a "Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications."
- Pipeline**: Described as "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."
- Multi-configuration project**: Described as "Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc."
- Folder**: Described as "Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders."

A blue "OK" button is at the bottom left of the form.

- BUAT GIT DENGAN NAMA DI BAWAH INI

The screenshot shows the Jenkins configuration interface for a GitHub repository named 'vina.github'. The 'Git' option is selected under 'Repositories'. A dashed box highlights the 'Repository URL' field containing 'https://github.com/vinasahara/KIPWEB' and the 'Credentials' dropdown set to 'vinasahara/***** (GitHub Access Token)'. Another dashed box highlights the 'Branch Specifier' field containing '/main'. At the bottom, there are 'Save' and 'Apply' buttons.

Jenkins / vina.github / Configuration

None

Git ?

Repositories ?

Repository URL ?

https://github.com/vinasahara/KIPWEB

Credentials ?

vinasahara/***** (GitHub Access Token)

Advanced ▾

+ Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

/main

Save Apply

Jenkins / vina.github

Status: vina.github

Permalinks

Builds: No builds

Jenkins / vina.github

Status: vina.github

Permalinks

Builds

- Last build (#1), 7 min 25 sec ago
- Last stable build (#1), 7 min 25 sec ago
- Last successful build (#1), 7 min 25 sec ago
- Last completed build (#1), 7 min 25 sec ago

REST API Jenkins 2.528.2

Screenshot of a web browser showing the Jenkins workspace for the project "vina.github".

The URL is `localhost:8080/job/vina.github/ws/`.

Workspace of vina.github on Built-In Node

File list:

git			
index.php	24 Nov 2025 16.28.39	11.68 Kib	...
koneksi.php	24 Nov 2025 16.28.39	314 B	...
pedoman.php	24 Nov 2025 16.28.39	15.43 Kib	...
pelaporan.php	24 Nov 2025 16.28.39	6.06 Kib	...
README.md	24 Nov 2025 16.28.39	8 B	...
sidebar.php	24 Nov 2025 16.28.39	5.52 Kib	...

Buttons:

- Status
- Changes
- Workspace
- Wipe Out Current Workspace
- Build Now
- Configure
- Delete Project
- Rename
- Credentials

Builds:

Today	#1 16.28

Jenkins 2.528.2

