LAPORAN PRAKTEK TOPIK KHUSUS INSTALASI & KONFIGURASI NGINX, GOLANG, PENGUJIAN API



DISUSUN OLEH: KHAIRUL RACHMAN 2211083007

TEKNOLOGI INFORMASI TEKNOLOGI REKAYASA PERANGKAT LUNAK POLITEKNIK NEGERI PADANG 2025

Langkah Kerja

- 1. Instalasi dan Konfigurasi
 - -Instalasi Echo Framework

```
khairul@ASUS:~/nginx_configuration$ go install github.com/labstack/echo/v4@latest go: downloading github.com/labstack/echo/v4 v4.13.3 go: downloading github.com/labstack/echo v3.3.10+incompatible go: downloading github.com/labstack/gommon v0.4.2 go: downloading golang.org/x/crypto v0.31.0 go: downloading golang.org/x/net v0.33.0 go: downloading github.com/mattn/go-colorable v0.1.13 go: downloading github.com/mattn/go-isatty v0.0.20 go: downloading github.com/valyala/fasttemplate v1.2.2 go: downloading golang.org/x/text v0.21.0 go: downloading golang.org/x/sys v0.28.0 go: downloading github.com/valyala/bytebufferpool v1.0.0 package github.com/labstack/echo/v4 is not a main package
```

- Lalu lakukan git clone untuk menjalankan kode dari repository github ke local

```
Setting up libheif-plugin-libde265:amd64 (1.17.6-lubuntu4.1) ...

Setting up libheif-plugin-aomenc:amd64 (1.17.6-lubuntu4.1) ...

Processing triggers for libc-bin (2.39-abubuntu8.4) ...

Processing triggers for libc-bin (2.39-abubuntu8.4) ...

Processing triggers for man-db (2.12.0-4build2) ...

khairul@ASUSI:-$ echo 'export COPATH=$NDRE/go' >> ~/.profile

echo 'export PATH=$PATH:$GOPATH/bin' >> ~/.profile

source ~/.profile

khairul@ASUS:-$ git clone https://github.com/kusnadi8605/nginx_configuration

cd nginx_configuration

Cloning into 'nginx_configuration'...

remote: Enumerating objects: 100% (32/32), done.

remote: Counting objects: 100% (32/32), done.

remote: Counting objects: 100% (32/32), done.

remote: Counting objects: 100% (32/32), 372.84 KiB | 408.00 KiB/s, done.

Resolving objects: 100% (32/32), 372.84 KiB | 408.00 KiB/s, done.

Resolving objects: 100% (8/8), done

khairul@ASUS:-/nginx_configuration$ go get -u github.com/labstack/echo/v4

go: go.mod file not found in current directory or any parent directory.

'go get' is no longer supported outside a module.

To build and install a command, use 'go install' with a version,

like 'go install example.com/com@Calest'

For more information, see https://golang.org/doc/go-get-install-deprecation

or run 'go help get' or 'go help install'.

khairul@ASUS:-/nginx_configuration$ go get -u github.com/labstack/echo/v4

go: go.mod file not found in current directory or any parent directory.

'go get' is no longer supported outside a module.

To build and install a command, use 'go install' with a version,

like 'go install example.com/com@Calest'

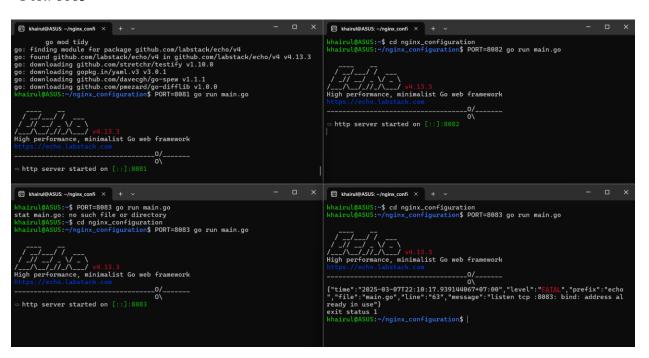
For more information, see https://golang.org/doc/go-get-install-deprecation

or run 'go help get' or 'go help install'.
```

Selanjutnya melakukan inisialisasi untuk modul golang

2. Jalankan Aplikasi Golang

- Setelah melakukan instalasi dan konfigurasi sekarang file main.go sudah siap dijalankan pada tiga port sekaligus.
- Port: 8081
- Port: 8082
- Port: 8083



- Semua port berhasil dijalankan dengan sukses.

3. Pengujian API

- Mengirim request 10 kali dengan curl

```
khairul@ASUS:~/nginx_configuration$ for i in {1..10}; do curl -X GET http://localhost:8080/user; done
{"id":1, "name": "John Doe", "email": "johndoe@example.com", "age":30}
{"id":1, "name": "John Doe", "email": "johndoe@example.com", "age":25}
{"message: "User created successfully", "user": {"id":1, "name": "Alice1, "email": "alice1@example.com", "age":25}}
{"message:: "User created successfully", "user": {"id":5, "name": "Alice5, "email": "alice6@example.com", "age":25}}
{"message:: "User created successfully", "user": {"id":6, "name": "Alice6, "email": "alice6@example.com", "age":25}}
{"message:: "User created successfully", "user": {"id":6, "name": "Alice6, "email": "alice6@example.com", "age":25}}
{"message:: "User created successfully", "user": {"i
```

-Testing API GET dan POST menggunakan Curl