Deploy Golang

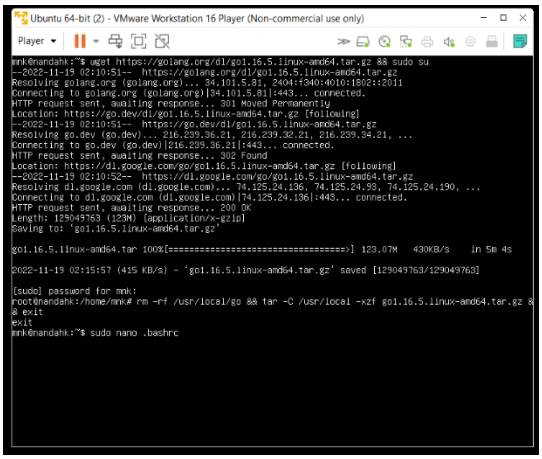
Pertama-tama sama seperti sebelumnya, kita harus mendownload engine-nya terlebih dahulu.

wget https://golang.org/dl/go1.16.5.linux-amd64.tar.gz && sudo su

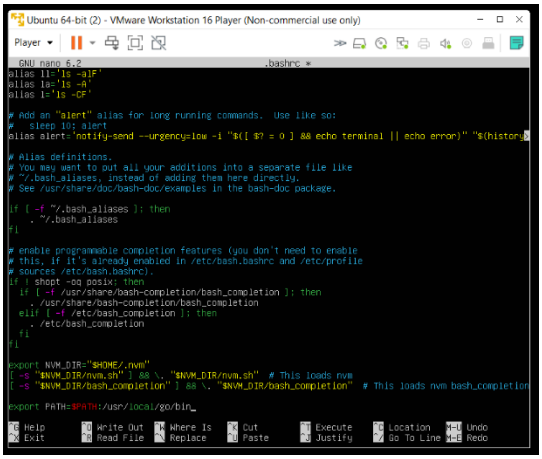
rm -rf /usr/local/go && tar -C /usr/local -xzf go1.16.5.linux-amd64.tar.gz && exit

Selanjutnya masukkan path go pada .bashrc

sudo nano .bashrc



Ketik command (export PATH=$PATH:/usr/local/go/bin
) pada baris terakhir , lalu save



Jika sudah sekarang dapat verifikasi go dengan cara berikut.

go version

Sekarang kita akan membuat aplikasi sederhana menggunakan go. Kalian dapat menjalankan beberapa perintah berikut ini.

Buat sebuah file dengan nama index.go.

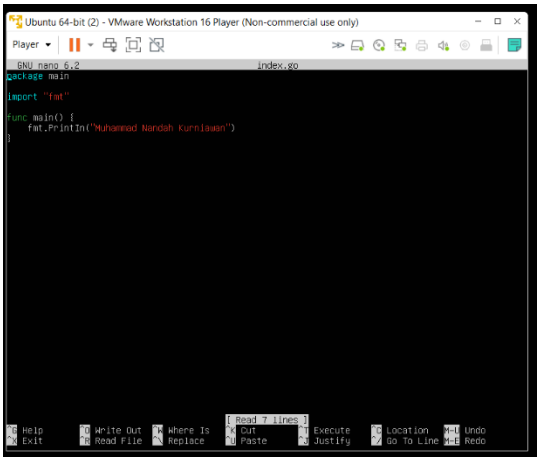
nano index.go

Setelah itu masukkan script dibawah ini.

```
package main

import "fmt"

func main() {
   fmt.Println("Hello World!")
}
```



Sekarang jalankan aplikasi go dengan menggunakan perintah berikut.

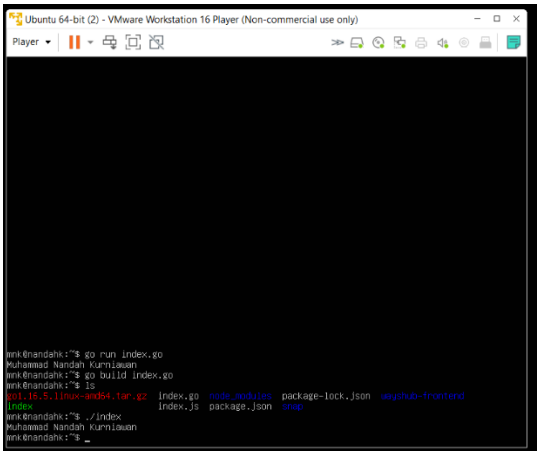
```
go run index.go
```

Jika aplikasi kalian ingin di build, maka jalankan perintah berikut ini.

```
go build index.go
```

Jika sudah jalankan aplikasi dengan menggunakan perintah berikut.

```
./index
```



Berhasil dijalankan sehingga tampil tulisan “Muhammad Nandah Kurniawan”

Deploy Python

Pertama-tama kita harus install terlebih dahulu Pyhton3. Untuk instalasi ikuti beberapa perintah di bawah ini.

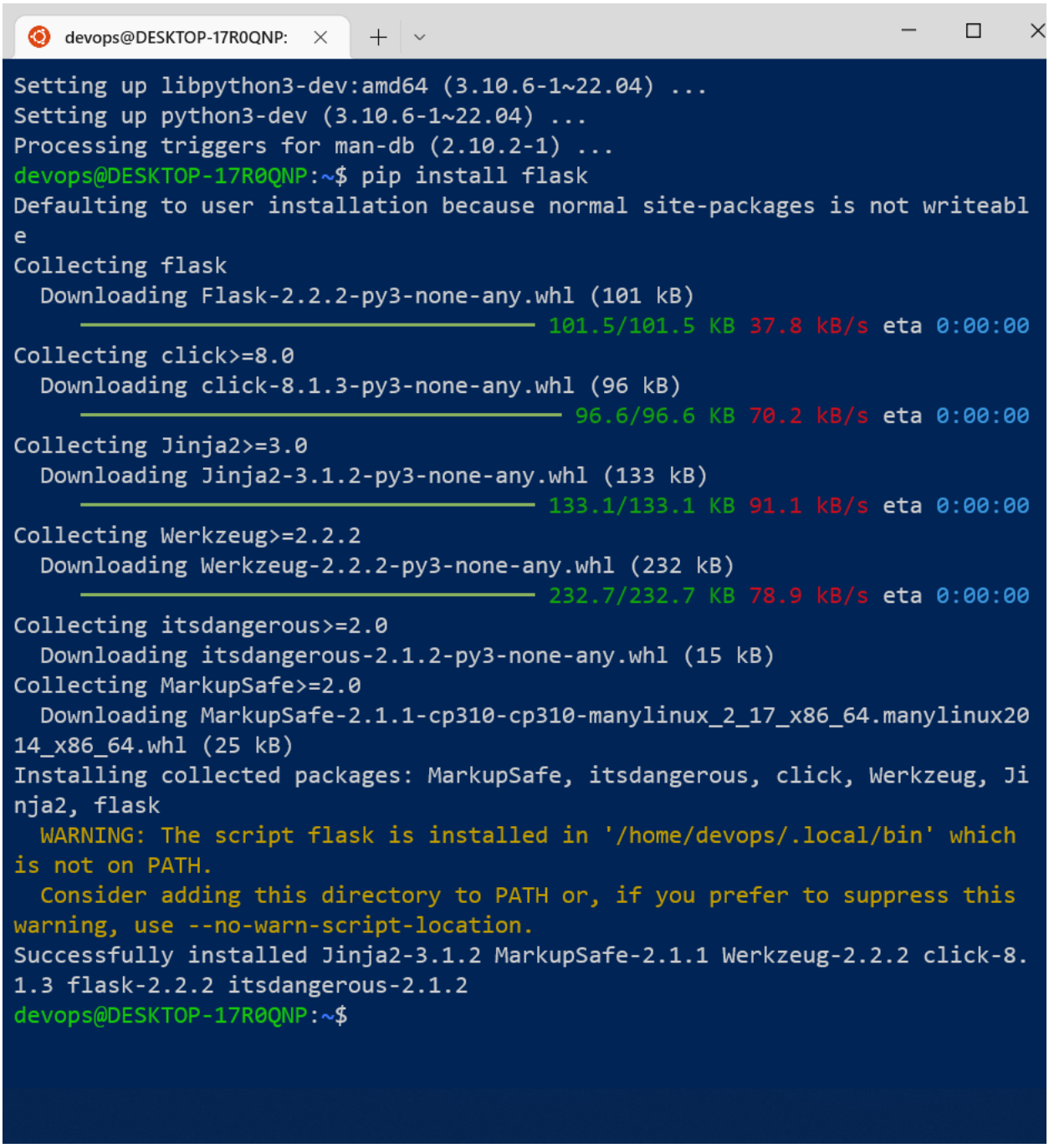
sudo apt install python3-pip

jika muncul output konfirmasi lagi, kita ketik y lagi

```
devops@DESKTOP-17R0QNP:~$ sudo apt install python3-pip
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libexpat1-dev libjs-jquery libjs-sphinxdoc libjs-underscore
  libpython3-dev libpython3.10-dev python3-dev python3-distutils
  python3-lib2to3 python3-setuptools python3-wheel python3.10-dev
  zlib1g-dev
Suggested packages:
  python-setuptools-doc
The following NEW packages will be installed:
  libexpat1-dev libjs-jquery libjs-sphinxdoc libjs-underscore
  libpython3-dev libpython3.10-dev python3-dev python3-distutils
  python3-lib2to3 python3-pip python3-setuptools python3-wheel
  python3.10-dev zlib1g-dev
0 upgraded, 14 newly installed, 0 to remove and 0 not upgraded.
Need to get 8076 kB of archives.
After this operation, 34.6 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
0% [Connecting to archive.ubuntu.com (185.125.190.39)]
```

setelah itu, kita perlu untuk mengunduh framework flask

pip install flask

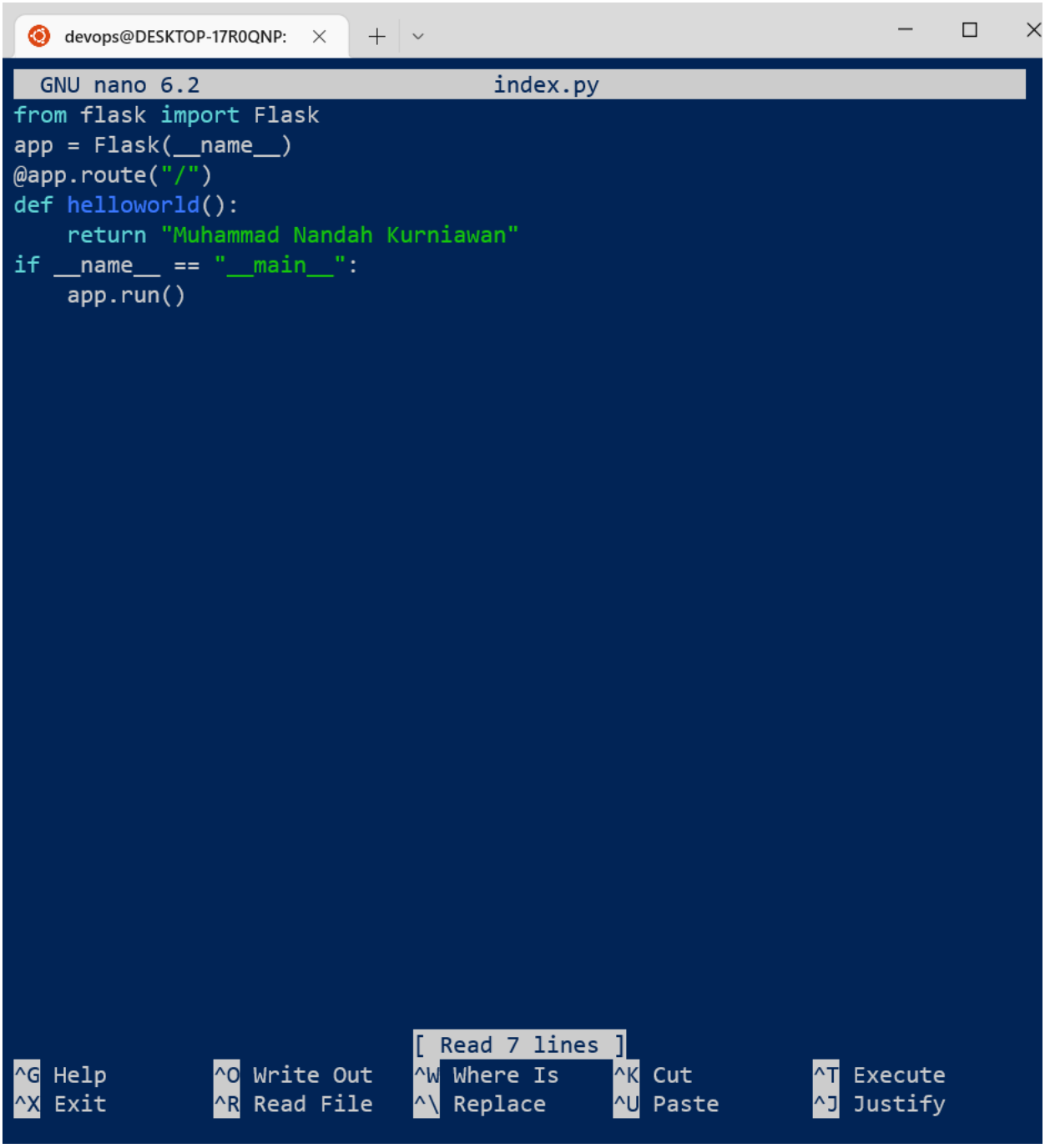


setelah itu kita buat file pythonnya, saya akan menggunakan nama index.py

nano index.py

kita isikan sebagai berikut:

```
from flask import Flask
app = Flask(__name__)
@app.route("/")
def helloworld():
   return "Muhammad Nandah Kurniawan"
if __name__ == "__main__":
   app.run()
```



setelah itu, kita perlu export script python kita ke dalam pm2

export FLASK_APP=sayMyNameFromPython.py
image

lalu jalankan python diatas pm2

pm2 start "flask run"

```
devops@DESKTOP-17R0QNP:~$ nano index.py
devops@DESKTOP-17R0QNP:~$ export FLASK_APP=index.py
devops@DESKTOP-17R0QNP:~$ pm2 start "flask run"
[PM2] Applying action restartProcessId on app [flask run](ids: [ 0 ])
[PM2] [flask run](0) ✓
[PM2] Process successfully started
┌────┬────────────────────┬──────────┬────┬──────────┬──────────┬──────────┐
│ id │ name               │ mode     │ ↺  │ status   │ cpu      │ memory   │
├────┼────────────────────┼──────────┼────┼──────────┼──────────┼──────────┤
│ 0  │ flask run          │ fork     │ 15 │ online   │ 0%       │ 780.0kb  │
└────┴────────────────────┴──────────┴────┴──────────┴──────────┴──────────┘
devops@DESKTOP-17R0QNP:~$ python3 index.py
 * Serving Flask app 'index'
 * Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
```

lalu kita cek di browser kita apakah sudah terdeploy dengan benar, karena pyhton secara default berjalan di port 5000, ketikan

localhost:5000

bila berhasil akan muncul output seperti dibawah