LAPORAN PRAKTIKUM PRAKTIKUM TEKNOLOGI CLOUD

PERTEMUAN KE - 03



Disusun Oleh:

NAMA : ANDIKA RIFQI ISTANTO

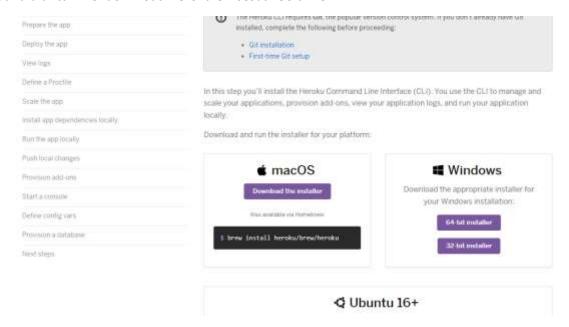
NIM : 215611102

JURUSAN : SISTEM INFORMASI

JENJANG : S1

LATIHAN

Terlebih dahulu untuk mendownload Heroku CLI sesuai OS di PC



Perintah untuk login di Heroku selanjutnya di clone

Administrator: Command Prompt - heroku login

```
Logged in as andikarifki03@gmail.com

:\Users\User>heroku login
neroku: Press any key to open up the browser to login or q to exit:
)pening browser to https://cli-auth.heroku.com/auth/cli/browser/3cd0
2gDbQAAAA8yMDMuMTkwLjIONi4yNDJuBgC4iE5AfwFiAAFRgA.GgbWhL7w104Y57YdxV
.ogging in... done
.ogged in as andikarifki03@gmail.com

:\Users\User>git clone https://github.com/heroku/python-getting-statloning into 'python-getting-started'...
remote: Enumerating objects: 512, done.
Receiving objects: 91% (466/512) 0 (delta 0), pack-reused 512 ece
Receiving objects: 100% (512/512), 95.55 KiB | 0 bytes/s, done.
Resolving deltas: 100% (237/237), done.
Thecking connectivity... done.

:\Users\User>D:
D:\Sgit clone https://github.com/heroku/python-getting-started.git
cloning into 'python-getting-started'...
remote: Enumerating objects: 512, done.
Receiving objects: 84% (431/512) 0 (delta 0), pack-reused 512
Receiving objects: 84% (431/512) 0 (delta 0), pack-reused 512
Receiving objects: 100% (512/512), 95.55 KiB | 0 bytes/s, done.
Resolving deltas: 100% (237/237), done.
Thecking connectivity... done.
D:\>heroku login
neroku: Waiting for login... \
```



```
Administrator: Command Prompt
```

```
Creating app... done, D enigmatic-eyrie-96981
https://enigmatic-eyrie-96981, herokuapp.com/ | https://git.heroku.com/enigmatic-eyrie-96981.git |
D:\python-getting-started-heroku create |
D:\python-getting-started-heroku create |
D:\python-getting-started-heroku com/ |
Delta compression using up to 4 threads. |
Compression using up to 4 thread
```

×

```
remote:
                       Preparing metadata (setup.py): finished with status 'done'
                    Building wheels for collected packages: psycopg2

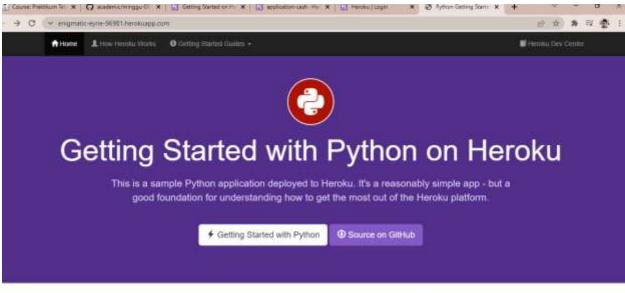
Building wheel for psycopg2 (setup.py): started

Building wheel for psycopg2 (setup.py): finished with statu:

Created wheel for psycopg2: filename=psycopg2-2.9.3-cp310-c
remote:
remote:
remote:
remote:
54a3e94805066131ece3f8866dd6797fd4902a91358c0d3da53fce9297419
                       Stored in directory: /tmp/pip-ephem-wheel-cache-74pafeyu/who
remote:
ab52de882e091c39249e
remote:
                    Successfully built psycopg2
                    Installing collected packages: sqlparse, asgiref, whitenoise,
remote:
, django-heroku
                    Successfully installed asgiref-3.5.0 dj-database-url-0.5.0 dj
 emote:
.0 psycopg2-2.9.3 sqlparse-0.4.2 whitenoise-6.0.0 remote: ----> $ python manage.py collectstatic --noinput remote: 129 static files copied to '/tmp/build_eecfa70f/staticfiles',
remote:
remote: ----> Discovering process types
                    Procfile declares types -> web
remote:
remote:
remote: ----> Compressing...
                    Done: 68M
remote:
remote: ----> Launching...
                    Released v5
Scaling dynos... done, now running web at 1:Free
D:\python-getting-started>
```

Perintah untuk membuka Heroku yang berisi memulai python di heroku

```
Administrator: Command Prompt
.0 psycopg2-2.9.3 sqlparse-0.4.2 whitenoise-6.0.0
remote: ----> $ python manage.py collectstatic --noinput
               129 static files copied to '/tmp/build_eecfa70
remote:
 emote:
 emote: ----> Discovering process types
remote:
               Procfile declares types -> web
remote:
remote: ----> Compressing...
               Done: 68M
remote:
remote: ----> Launching.
               Released v5
emote:
Scaling dynos... done, now running web at 1:Free
D:\python-getting-started>heroku open
D:\python-getting-started>
```



Heroku memperlakukan log sebagai aliran peristiwa berurutan waktu yang dikumpulkan dari aliran keluaran semua aplikasi Anda dan komponen Heroku, menyediakan satu saluran untuk semua peristiwa

To deploy your own copy, and learn the fundamentary of the Heroxu platform, head over to the **Cetting Started with Python on Heroxu** billional

```
ms status=200 bytes=2491 protocol=https
2022-02-28T12:45:25.957157+00:00 app[web.1]: 10.1.91.183 - - [28/Feb/20
P/1.1" 200 0 "https://enigmatic-eyrie-96981.herokuapp.com/" "Mozilla/5.
6 (KHTML, like Gecko) Chrome/98.0.4758.102 Safari/537.36"
2022-02-28T12:45:26.414653+00:00 heroku[router]: at=info method=GET pat
uapp.com request_id=7a2fa050-4fde-429b-a158-7754005ae0b3 fwd="203.190.2
=404 bytes=2642 protocol=https
2022-02-28T12:45:26.415553+00:00 app[web.1]: Not Found: /favicon.ico
2022-02-28T12:45:26.415593+00:00 app[web.1]: 10.1.91.183 - - [28/Feb/20
4 2368 "https://enigmatic-eyrie-96981.herokuapp.com/" "Mozilla/5.0 (Win
ML, like Gecko) Chrome/98.0.4758.102 Safari/537.36"
Scaling dynos... done, now running web at 1:Free

D:\python-getting-started>heroku ps
Free dyno hours quota remaining this month: 550h 0m (100%)
Free dyno hours quota remaining this month: 550h 0m (100%)
Free dyno usage for this app: 0h 0m (0%)
For more information on dyno sleeping and how to upgrade, see:
https://devcenter.heroku.com/articles/dyno-sleeping
=== web (Free): gunicorn gettingstarted.wsgi (1)
web.1: up 2022/02/28 19:33:46 +0700 (~ 20m ago)

D:\python-getting-started>heroku ps:scale web=0
Scaling dynos... done, now running web at 0:Free

D:\python-getting-started>heroku ps:scale web=1
Scaling dynos... done, now running web at 1:Free

D:\python-getting-started>heroku ps:scale web=1
Scaling dynos... done, now running web at 1:Free
```

Perintah ps scale

Secara default, aplikasi Anda diterapkan pada dyno gratis. Dyno gratis akan tidur setelah setengah jam tidak aktif (jika tidak menerima lalu lintas). Ini menyebabkan penundaan beberapa detik untuk permintaan pertama saat bangun tidur. Permintaan berikutnya akan bekerja secara normal. Dyno gratis juga menggunakan kuota dyno gratis bulanan tingkat akun - selama kuota tidak habis, semua aplikasi gratis dapat terus berjalan.

Untuk menghindari dyno sleep, kamu bisa upgrade ke tipe dyno hobby atau professional seperti yang dijelaskan di artikel Tipe Dyno. Misalnya, jika Anda memigrasikan aplikasi ke dyno profesional, Anda dapat dengan mudah menskalakannya dengan menjalankan perintah yang memberi tahu Heroku untuk mengeksekusi sejumlah dyno tertentu, masing-masing menjalankan jenis proses web Anda.

Menskalakan aplikasi di Heroku sama dengan mengubah jumlah dyno yang sedang berjalan. Skala jumlah web dynos ke nol:

Perintah Heroku local adalah perintah local web server

Administrator: Command Prompt

```
Scaling dynos... done, now running web at 0:Free

D:\python-getting-started>heroku ps:scale web=1
Scaling dynos... done, now running web at 1:Free

D:\python-getting-started>python3 -m venv venv

D:\python-getting-started>pip install -r requirements.txt
'pip' is not recognized as an internal or external command,
operable program or batch file.

D:\python-getting-started>pip list
'pip' is not recognized as an internal or external command,
operable program or batch file.

D:\python-getting-started>python manage.py collectstatic

D:\python-getting-started>heroku local
[OKAY] Loaded ENV .env File as KEY=VALUE Format
8:02:35 PM web.1 | 'gunicorn' is not recognized as an internal or external command,
8:02:35 PM web.1 | operable program or batch file.

[DONE] Killing all processes with signal SIGINT
8:02:35 PM web.1 Exited with exit code null
```

```
AcTerminate batch job (Y/N)? Y

D:\python-getting-started>heroku ps
Free dyno hours quota remaining this month: 550h 0m (100%)
Free dyno usage for this app: 0h 0m (0%)
For more information on dyno sleeping and how to upgrade, see:
https://devcenter.heroku.com/articles/dyno-sleeping

=== web (Free): gunicorn gettingstarted.wsgi (1)
web.1: up 2022/03/02 16:30:55 +0700 (~ 7m ago)

D:\python-getting-started>heroku ps:scale web=0
Scaling dynos... done, now running web at 0:Free

D:\python-getting-started>heroku ps:scale web=1
Scaling dynos... done, now running web at 1:Free

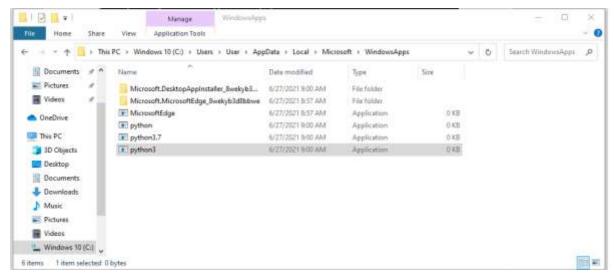
D:\python-getting-started>python3 -m venv venv

D:\python-getting-started>py -m venv env

D:\python-getting-started>yy -m venv env

D:\python-getting-started>where python
C:\Users\User\AppData\Local\Microsoft\WindowsApps\python.exe

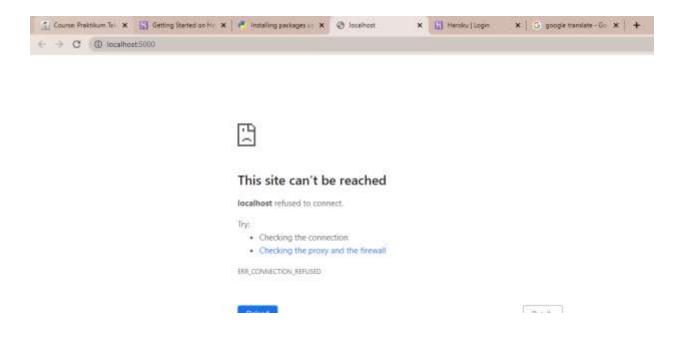
D:\python-getting-started>
```



D:\python-getting-started>cd google-auth

```
D:\python-getting-started>python manage.py collectsataic

D:\python-getting-started>heroku local -f Procfile.windows
[OKAY] Loaded ENV .env File as KEY=VALUE Format
[ONE] killing all processes with signal SIGINT
[ONE] killing all processes with signal SIGINT
[OS:00:24 PM web.1 | om the Microsoft Store: ms-windows-store://pdp/?productid=9NJ46SX7X90P
[OS:00:24 PM web.1 | continue to the microsoft Store: ms-windows-store://pdp/?productid=9NJ46SX7X90P
[OS:00:24 PM web.1 | Exited with exit code null
[OS:00:30 PM web.1 | 'gunicorn' is not recognized as an internal or external command,
[OS:00:30 PM web.1 | operable program or batch file.
[DONE] Killing all processes with signal SIGINT
[OS:00:30 PM web.1 | Exited with exit code null
[OS:\python-getting-started>
```



```
D:\python-getting-started>pip install -r requirements.txt
'pip' is not recognized as an internal or external command,
operable program or batch file.

D:\python-getting-started>pip list
'pip' is not recognized as an internal or external command,
operable program or batch file.

D:\python-getting-started>python manage.py collectstatic

D:\python-getting-started>heroku local
[OKAY] Loaded ENV .env File as KEY=VALUE Format
S:02:35 PM web.1 | 'gunicorn' is not recognized as an internal or external command,
S:02:35 PM web.1 | operable program or batch file.
[DONE] Killing all processes with signal SIGINT
S:02:35 PM web.1 exited with exit code null

D:\python-getting-started>pip install -r requirements.txt
'pip' is not recognized as an internal or external command,
operable program or batch file.

D:\python-getting-started>git add .

D:\python-getting-started>git add .

D:\python-getting-started>git commit -m "demo"
On branch main
Your branch is up-to-date with 'origin/main'.
nothing to commit, working directory clean

D:\python-getting-started>git push heroku main
Everything up-to-date

D:\python-getting-started>heroku open
```

```
D:\python-getting-started>git add .
D:\python-getting-started>git commit -m "demo"
On branch main
Your branch is up-to-date with 'origin/main'.
nothing to commit, working directory clean
D:\python-getting-started>git push heroku main
Everything up-to-date
D:\python-getting-started>heroku open
```

```
Administrator Command Prompt

>>> import requests
Traceback (most recent call last):
    File "cconsole>", line 1, in <module>
ModuleNotFoundError: No module named 'requests'
>>> exit()

D:\python-getting-started>heroku run python manage.py shell
Running python manage.py shell on I enigmatic-eyrie-96981... up, run.4968 (Free)
Python 3.10.2 (main, Jan 14 2022, 23:41:42) [GcC 9.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
(InteractiveConsole)
>>> import requests
Traceback (most recent call last):
    File "cconsole>", line 1, in <module>
ModuleNotFoundError: No module named 'requests'
>>> exit()

D:\python-getting-started>
```

Perintah Heroku config untuk melihat config vars

```
Administrator: Command Prompt
                                                                                                                                 ×
D:\python-getting-started>heroku config
=== enigmatic-eyrie-96981 Config Vars
DATABASE_URL: postgres://unluskcplwcrny:348b4aa1d38849e6b6e93afda842f09ce9954a6e5aa925
3fa2efa6dddb6d3e02@ec2-54-156-110-139.compute-1.amazonaws.com:5432/d4nd1gngfsmc3c
D:\python-getting-started>heroku addons
Add-on
                                                                         Plan
                                                                                           Price
                                                                                                      State
heroku-postgresql (postgresql-opaque-72630)
                                                                        hobby-dev
                                                                                           free
                                                                                                      created
   L as DATABASE
The table above shows add-ons and the attachments to the current app (enigmatic-eyrie-
96981) or other apps.
D:\python-getting-started>heroku config
=== enigmatic-eyrie-96981 Config Vars
DATABASE_URL: postgres://unluskcplwcrny:348b4aa1d38849e6b6e93afda842f09ce9954a6e5aa925
3fa2efa6dddb6d3e02@ec2-54-156-110-139.compute-1.amazonaws.com:5432/d4ndlgngfsmc3c
D:\python-getting-started>heroku pg
 === DATABASE_URL
Plan:
                                     Hobby-dev
Available
Status:
                                     0/20
13.5
2022-02-28 12:33 UTC
8.0 MB/1.00 GB (In compliance)
Connections:
PG Version:
Created:
Data Size:
```

Perintah migrasi python

```
Administrator Command Prompt

D:\python-getting-started>heroku run python manage.py migrate
Running python manage.py migrate on @ enigmatic-eyrie-96981... up, run.3218 (Free)
System check identified some issues:

WARNINGS:

WARNINGS:

HINT: Configure the DEFAULT_AUTO_FIELD setting or the AppConfig.default_auto_f
ield attribute to point to a subclass of AutoField, e.g. 'django.db.models.BigAutoFiel
d'.

Operations to perform:

Apply all migrations: admin, auth, contenttypes, hello, sessions
Running migrations:

Applying auth.0001_initial... OK

Applying auth.0001_initial... OK

Applying admin.0001_initial... OK

Applying admin.0002_logentry_remove_auto_add... OK

Applying admin.0003_logentry_remove_content_type_name... OK

Applying auth.0003_alter_user_email_max_length... OK

Applying auth.0004_alter_user_last_login_null... OK

Applying auth.0005_alter_user_last_login_null... OK

Applying auth.0005_alter_user_last_login_null... OK

Applying auth.0006_require_contenttypes_0002... OK

Applying auth.0008_alter_user_last_login_null... OK

Applying auth.0008_alter_user_last_login_null... OK

Applying auth.0008_alter_user_last_name_max_length... OK

Applying auth.0008_alter_user_last_name_max_length... OK

Applying auth.0008_alter_user_last_name_max_length... OK

Applying auth.0010_alter_group_name_max_length... OK

Applying auth.0010_alter_group_name_max_length... OK

Applying auth.0010_alter_user_last_name_max_length... OK

Applying auth.0010_alter_user_last_name_max_length... OK

Applying auth.0010_alter_group_name_max_length... OK

Applying auth.0010_alter_group_name_max_length... OK

Applying auth.0010_alter_group_name_max_length... OK

Applying auth.0010_alter_group_name_max_length... OK

Applying auth.0011_update_proxy_permissions... OK

Applying auth.0012_alter_user_first_name_max_length... OK

Applying auth.0011_update_proxy_permissions... OK
```

```
Applying hello.0001_initial... OK
Applying sessions.0001_initial... OK
Applying sessions.0001_initial... OK

Applying sessions.0001_initial... OK

:\python-getting-started>heroku pg:psql
-> Connecting to postgresql-opaque-72630
! The local psql command could not be located. For help installing psql, see https://devcenter.heroku.com/articles/heroku-postgresql#local-setup
:\python-getting-started>
```

TUGAS

```
Administrator. Command Prompt

E:\>heroku login
heroku: Press any key to open up the browser to login or q to exit:
Opening browser to https://cli-auth.heroku.com/auth/cli/browser/062d41f8-39db-4d8e-b142-9ce56d834db7?r
equestor=SFMyNTY.g2gDbQAAAA8yMDMuMTkwLjIONi4yNDFuBgCoRthJfwFiAAFRgA.vCYoxNwpul2BuF6ppLQtcRf08ufMtPv_OR
IIRei7pcw
Logging in... done
Logged in as andikarifki03@gmail.com

E:\>php -v
PHP 7.4.26 (cli) (built: Nov 16 2021 18:15:31) ( ZTS Visual C++ 2017 x64 )
Copyright (c) The PHP Group
Zend Engine v3.4.0, Copyright (c) Zend Technologies

E:\>composer -V
Composer version 2.1.14 2021-11-30 10:51:43

E:\>git --version
git version 2.8.1.windows.1

E:\>git clone https://github.com/heroku/php-getting-started.git
Cloning into 'php-getting-started'...
remote: Countring objects: 100% (3/3), done.
remote: Compressing objects: 100% (3/3), done.
Receiving objects: 72% (145/201) (delta 0), pack-reused 198
Receiving objects: 100% (86/86), done.
Checking connectivity... done.
```

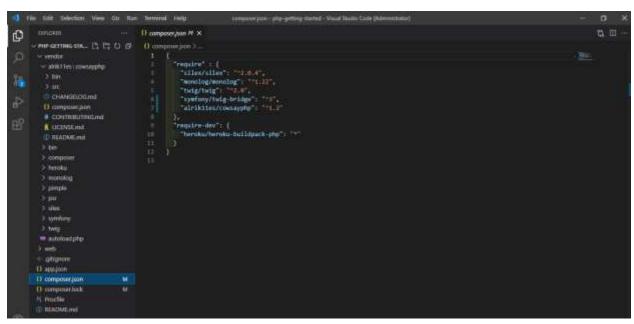
```
Х
 Administrator: Command Prompt

    Installing symfony/http-foundation (v3.4.47): Extracting archive
    Installing symfony/event-dispatcher (v3.2.7): Extracting archive
    Installing symfony/debug (v3.2.7): Extracting archive
    Installing symfony/http-kernel (v3.2.7): Extracting archive
    Installing pimple/pimple (v3.0.2): Extracting archive
    Installing silex/silex (v2.0.4): Extracting archive
    Installing twig/twig (v2.3.0): Extracting archive
    Installing symfony/twig-bridge (v3.2.7): Extracting archive
    Generating optimized autoload files
    packages you are using are looking for funding.
    Use the 'composer fund' command to find out more!
    Preparing runtime environment...

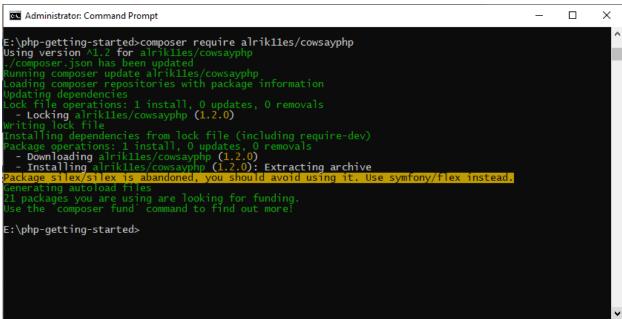
remote:
 emote:
 remote: ----> Preparing runtime environment...
remote: ----> Checking for additional extensions to install...
remote: ----> Discovering process types
remote: Procfile declares types -> web
  emote:
 remote: ----> Compressing...
remote: Done: 15.5M
remote: Launching...
remote: Released v3
 emote:
                                    https://gentle-atoll-50979.herokuapp.com/ deployed to Heroku
Scaling dynos... done, now running web at 1:Free
E:\php-getting-started>heroku ps:scale web=1
E:\php-getting-started>heroku ps:scale web=1
                                                                                                                                                                                                                                                П
                                                                                                                                                                                                                                                               ×
  Administrator: Command Prompt
 E:\php-getting-started>heroku logs --tai]
```

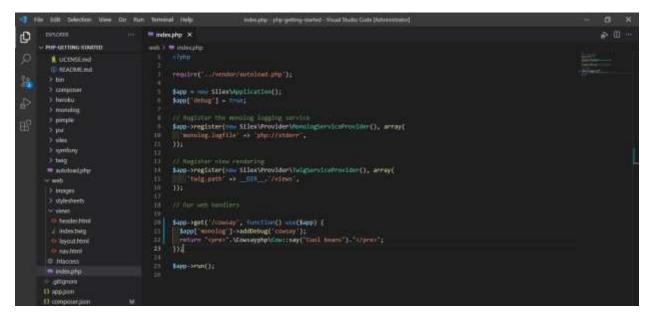
```
2022-03-02T08:58:09.037297+00:00 heroku[web.1]: Starting process with command `vendor/bin/heroku-php-a pache2 web/'
2022-03-02T08:58:10.783011+00:00 app[web.1]: DOCUMENT_ROOT changed to 'web/'
2022-03-02T08:58:10.836736+00:00 app[web.1]: Detected 536870912 Bytes of RAM
2022-03-02T08:58:10.864782+00:00 app[web.1]: PHP memory_limit is 128M Bytes
2022-03-02T08:58:10.870964+00:00 app[web.1]: Starting php-pm with 4 workers...
2022-03-02T08:58:11.035080+00:00 app[web.1]: Starting httpd...
2022-03-02T08:58:11.035080+00:00 app[web.1]: Starting httpd...
2022-03-02T09:58:811.035080+00:00 app[web.1]: Starting httpd...
2022-03-02T09:00:35.818627+00:00 app[web.1]: [2022-03-02 09:00:35] app.INFO: Matched route "{route}".
{"route":"GET_","route_parameters":{"_controller":"[object] (Closure: {}})","_route":"GET_"},"request_u
ri":"http://gentle-atoll-50979.herokuapp.com/","method":"GET"}[]
2022-03-02T09:00:35.818689+00:00 app[web.1]: [2022-03-02 09:00:35] app.DEBUG: > GET / [] []
2022-03-02T09:00:35.818782+00:00 app[web.1]: [02-Mar-2022 09:00:35] app.DEBUG: logging output. [] []
2022-03-02T09:00:35.841236+00:00 app[web.1]: [02-Mar-2022 09:00:35] app.DEBUG: logging output. [] []
2022-03-02T09:00:35.857611+00:00 app[web.1]: [2022-03-02 09:00:35] app.DEBUG: or `a ? b : (c ? d : e)` in /ap
p/vendor/twig/twig/lib/Twig/Node.php on line 42
2022-03-02T09:00:35.858349+00:00 app[web.1]: [2022-03-02 09:00:35] app.DEBUG: < 200 [] []
2022-03-02T09:00:35.858349+00:00 app[web.1]: 10.1.39.129 - [02/Mar/2022:09:00:35 +0000] "GET / HTTP/
1.1" 200 6791 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Ch
rome/99.0.4844.51 Safari/537.36
2022-03-02T09:00:35.858338+00:00 heroku[router]: at=info method=GET path="/" host=gentle-atoll-50979.h
erokuapp.com request_id=ddfe896d-602e-4fe9-962c-493152181f2b fwd="203.190.246.230" dyno=web.1 connect=
0ms service=86ms status=200 bytes=6997 protocol=https
2022-03-02T09:00:36.168429+00:00 app[web.1]: 10.1.39.129 - [02/Mar/2022:09:00:36 +0000] "GET / styles
heets/main.css HTTP/
```

 \times

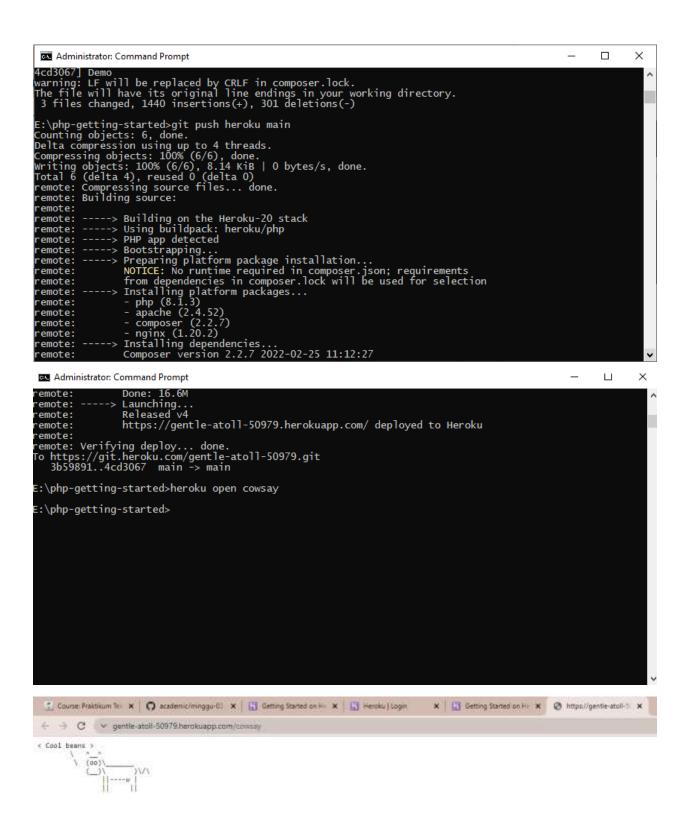


```
E:\php-getting-started>composer update
Loading composer repositories with package informationde, see:
Updating dependenciesoku.com/articles/dyno-sleeping
Lock file operations: 13 installs, 13 updates, 1 removal
- Removing symfony/polyfill-php70 (v1.20.0) web/ (1)
- Upgrading heroku/heroku-buildpack-php (v121 => v212)
- Upgrading monolog/monolog (1.22.1 => 1.26.1)
- Upgrading pimple/pimple (v3.0.2 => v3.5.0)
- Locking psr/container (2.0.2)scale web=0
- Upgrading symfony/debug (v3.2.7 => v4.4.37)
- Locking symfony/debug (v3.2.7 => v4.4.37)
- Locking symfony/deprecation-contracts (v2.5.0)
- Locking symfony/event-dispatcher (v3.2.7 => v4.4.37)
- Locking symfony/event-dispatcher (v3.2.7 => v4.4.37)
- Locking symfony/event-dispatcher-contracts (v1.1.11)
- Locking symfony/http-client-contracts (v2.5.0)
- Upgrading symfony/http-foundation (v3.4.47 => v4.4.38)
- Upgrading symfony/http-foundation (v3.4.47 => v4.4.38)
- Locking symfony/polyfill-ctype (v1.24.0)
- Locking symfony/polyfill-intl-ind (v1.24.0)
- Locking symfony/polyfill-intl-ind (v1.23.1 => v1.24.0)
- Locking symfony/polyfill-php72 (v1.24.0)
- Locking symfony/polyfill-php73 (v1.24.0)
- Locking symfony/polyfill-php80 (v1.24.0)
- Locking symfony/polyfill-php80 (v1.24.0)
- Locking symfony/polyfill-php80 (v1.24.0)
- Upgrading symfony/polyfill-php80 (v1.24.0)
```





```
×
nttps://repo.packagist.org could not be fully loaded (curl error 56 while downloading https://repo.pac
kagist.org/p2/symfony/var-dumper.json: OpenSSL SSL_read: Connection was reset, errno 10054), package i
nformation was loaded from the local cache and may be out of date
vothing to modify in lock file
Installing dependencies from lock file (including require-dev)
Nothing to install, update or remove
  enerating autoload files
1 packages you are using are looking for funding.
se the `composer fund` command to find out more!
E:\php-getting-started>git add .
warning: LF will be replaced by CRLF in composer.lock.
The file will have its original line endings in your working directory.
E:\php-getting-started>git add .
E:\php-getting-started>
```



```
E:\>cd php-getting-started
E:\php-getting-started>heroku addons:create papertrail
Creating papertrail on [] gentle-atoll-50979...!
! Please verify your account to install this add-on plan (please enter a credit c
ormation, see
        https://devcenter.heroku.com/categories/billing Verify now at https://heroku.co
E:\php-getting-started>heroku addons
No add-ons for app gentle-atoll-50979.
E:\php-getting-started>heroku addons:open papertrail
! Couldn't find that add on.
E:\php-getting-started>
```

```
https://devcenter.heroku.com/categories/billing Verify now at https://heroku.com/verify
E:\php-getting-started>heroku addons
No add-ons for app gentle-atoll-50979.
E:\php-getting-started>heroku addons:open papertrail
! Couldn't find that add on.
E:\php-getting-started>heroku run "php -a"
Running php -a on 🏻 gentle-atoll-50979... up, run.3997 (Free)
Interactive shell
php > ls
php > exit
E:\php-getting-started>
```

```
Administrator: Command Prompt
Setting TIMES and restarting [] gentle-atoll-50979... done, v5
TIMES: 20

Creating heroku-postgresql:hobby-dev on [] gentle-atoll-50979... free
Database has been created and is available
! This database is empty. If upgrading, you can transfer
! data from another database with pg:copy
Created postgresql-infinite-59136 as DATABASE_URLu-postgresql:hobby-dev
Use heroku addons:docs heroku-postgresql to view documentation

E:\php-getting-started>composer require csanquer/pdo-service-provider=~1.1dev
./composer.json has been updated
Running composer update csanquer/pdo-service-provider
Loading composer repositories with package information
Updating dependencies
Lock file operations: 2 installs, 0 updates, 0 removals
- Locking csanquer/pdo-service-provider (dev-master 2b07fd8)
- Locking symfony/options-resolver (v3.0.9)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 2 installs, 0 updates, 0 removals
- Downloading symfony/options-resolver (v3.0.9)
- Downloading symfony/options-resolver (v3.0.9)
- Installing symfony/options-resolver (v3.0.9)
- Installing csanquer/pdo-service-provider (dev-master 2b07fd8)
- Installing csanquer/pdo-service-provider (dev-master 2b07fd8): Extracting archive
- Installing csanquer/pdo-service-provider (dev-master 2b07fd8): Extracting archive
Package silex/silex is abandoned, you should avoid using it. Use symfony/flex instead.
Generating autoload files
21 packages you are using are looking for funding.
Use the composer fund`command to find out more!
```

```
web > 💝 config.php
       <?php
  1
       $app->get('/db/', function() use($app) {
         $st = $app['pdo']->prepare('SELECT name FROM test table');
         $st->execute();
         $names = array();
         while ($row = $st->fetch(PDO::FETCH_ASSOC)) {
           $app['monolog']->addDebug('Row ' . $row['name']);
 10
           $names[] = $row;
         }
 12
 13
         return $app['twig']->render('database.twig', array(
           'names' => $names
         ));
       });
```

```
File Edit Selection View Go ...
                                         index.php - php-getting-started - Visual Studi...
Ð
      index.php M X
                         index.twig M
                                           config.php U
                                                             {} composer.json
       web > 😭 index.php
              );
             $app->get('/db/', function() use($app) {
                $st = $app['pdo']->prepare('SELECT name FROM test_table');
                $st->execute();
                $names = array();
                while ($row = $st->fetch(PDO::FETCH_ASSOC)) {
品
                  $app['monolog']->addDebug('Row ' . $row['name']);
                  $names[] = $row;
                }
                return $app['twig']->render('database.twig', array(
                  'names' => $names
                ));
        53
              });
```

```
index.php M
              √ index.twig M X 💮 📅 config.php U
reb > views > √ index.twig
     {% extends "layout.html" %}
     {% block content %}
 4
     Got these rows from the database:
     <l
     {% for n in names %}
      {li> {{ n.name }} 
     {% else %}
      Nameless!
     {% endfor %}
11
     12
13
     {% endblock %}
```

```
E:\php-getting-started>git add .
warning: LF will be replaced by CRLF in composer.lock.
The file will have its original line endings in your working directory.

E:\php-getting-started>git add .

E:\php-getting-started>git commit -m "added database access"
[main warning: LF will be replaced by CRLF in composer.lock.
The file will have its original line endings in your working directory.
a10d188] added database access
warning: LF will be replaced by CRLF in composer.lock.
The file will have its original line endings in your working directory.
2 files changed, 118 insertions(+), 3 deletions(-)

E:\php-getting-started>git push heroku main
Counting objects: 4, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (4/4), done.
```

```
E:\php-getting-started>heroku pg:psql
--> Connecting to postgresql-infinite-59136
! The local psql command could not be located. For help installing psql
! https://devcenter.heroku.com/articles/heroku-postgresql#local-setup
E:\php-getting-started>
```