Ubuntu 18.04 & NodeJS & NuxtJS / Linux 64 & Apache

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1/ reference

https://www.youtube.com/playlist?list=PL7_CawtGdTaSzNYezRZkZfkTwov2VGMR4

- 2/ step by step
- 2-1) create EC2
- 2-2) download file.pem
- 2-3) ssh

```
chmod 400 file.pem
ssh -i "file.pem" ubuntu@ec2-3-82-138-45.compute-1.amazonaws.com //
@xxx will change everytime stop/start EC2
```

2-4) create user dotq

UBUNTU

```
ubuntu$ sudo su
root@ passwd // set PW
root@ apt update<upgrade>
root@ adduser dotq
root@ usermod -aG sudo dotq
root@ su dotq
dotq$
```

LINUX

```
ec2-user$ sudo su - // khac "sudo su" o cho se chuyen ve "/home
/username" chu KO phai "/home/ec2-user"
root@ passwd // set PW
root@ adduser yuki // OR "useradd yuki"
root@ passwd yuki
root@ su - yuki // khac "su yuki" nhu tren
yuki$ ssh-keygen -t rsa // giong voi "ssh-keygen"
$ cd /home/yuki/.ssh/
[yuki@ip-172-31-30-29 .ssh]$ mv id_rsa.pub authorized_keys // co ve KO
can!!!
[yuki@ip-172-31-30-29 .ssh]$ chmod 600 authorized_keys
[yuki@ip-172-31-30-29 .ssh]$ 11
total 8
-rw----- 1 yuki yuki 415 Nov 8 16:58 authorized keys
-rw----- 1 yuki yuki 1679 Nov 8 16:58 id_rsa
copy "id_rsa" paste to "yuki.pem"
# chmod 400 yuki.pem
# ssh -i yuki.pem yuki@<dns>
yuki$ sudo vim /etc/ssh/sshd_config
-> NG!!!
yuki$ sudo su -
root@ nano /etc/ssh/sshd_config
add "PasswordAuthentication no"
@ service sshd restart
@ visudo
add "yuki
           ALL=(ALL)
                        ALL"
yuki$ sudo vim /etc/ssh/sshd_config
-> OK!
@ id yuki
uid=1001(yuki) gid=1001(yuki) groups=1001(yuki)
```

```
$ sudo apt install nodejs npm git
$ node --version
v8.10.0
$ sudo npm cache clean -f
$ sudo npm i -g n
$ sudo n stable
$ sudo n rm 16.13.0
$ sudo npm uninstall -g n
$ su
root@ su dotq
$ node --version
v16.13.0
```

2-6) install nuxtjs & apache2

UBUNTU

```
/home/ubuntu/nuxtjs$ sudo npx create-nuxt-app dotq-demo-ubuntu
? Package manager: Npm // NOT "yarn" because NOT install yarn yet
$ 11 dotq-demo-ubuntu/
total 1008
                       4096 Nov 1 16:55 ./
drwxr-xr-x 8 root root
drwxr-xr-x 3 root root 4096 Nov 1 16:54 ../
-rw-r--r-- 1 root root
                         207 Nov 1 16:54 .editorconfig
drwxr-xr-x 7 root root 4096 Nov 1 16:54 .git/
-rw-r--r- 1 root root 1253 Nov 1 16:54 .gitignore
-rw-r--r-- 1 root root 2801 Nov 1 16:54 README.md
drwxr-xr-x 2 root root 4096 Nov 1 16:54 components/
drwxr-xr-x 742 root root 24576 Nov 1 16:55 node_modules/
-rw-r--r-- 1 root root 1005 Nov 1 16:54 nuxt.config.js
-rw-r--r- 1 root root 952647 Nov 1 16:55 package-lock.json
-rw-r--r-- 1 root root 296 Nov 1 16:54 package.json
$ sudo npm run build
$ npm run start
connect "http://18.206.255.179:3000/" -> NG!!!
```

- install Apache2
- reference: https://www.digitalocean.com/community/tutorials/how-to-install-linux-apache-mysql-php-lamp-stack-ubuntu-18-04

```
$ sudo apt install apache2
$ sudo ufw app list
Available applications:
 Apache
 Apache Full
 Apache Secure
 OpenSSH
  $ sudo ufw app info "Apache Full"
Profile: Apache Full
Title: Web Server (HTTP, HTTPS)
Description: Apache v2 is the next generation of the omnipresent Apache
web
server.
Ports:
 80,443/tcp
  $ sudo ufw status
Status: inactive // FW is inactive
```

LINUX

```
$ sudo su -
root@ yum install httpd -y
@ service httpd start
@ yum install telnet -y
@ telnet localhost 80
->
Trying 127.0.0.1...
Connected to localhost.
```

- add Inbound rule (2-7)
- ACCESS "Public IPv4 IP " → OK (view default page of Apache)

```
@ mkdir /var/www/html/tinhocthatladongian
@ chown -Rf :apache /var/www/html/tinhocthatladongian/
@ chmod 775 /var/www/html/tinhocthatladongian
@ ll /var/www/html
drwxrwxr-x 2 root apache 6 Nov 28 16:24 tinhocthatladongian
@ vim /etc/httpd/conf/httpd.conf
"User apache
Group apache"
... (cuoi cung)
NameVirtualHost *:80
<VirtualHost *:80>
    ServerAdmin info@coderhanoi.com
    DocumentRoot /var/www/html/tinhocthatladongian
    ServerName 107.21.140.244
    <Directory "/var/www/html/tinhocthatladongian">
   Order deny, allow
           Allow from all
           AllowOverride All
          Require all granted
   </Directory>
</VirtualHost>
@ vim /var/www/html/tinhocthatladongian/index.html
"DoTQ!!!"
@ service httpd restart
```

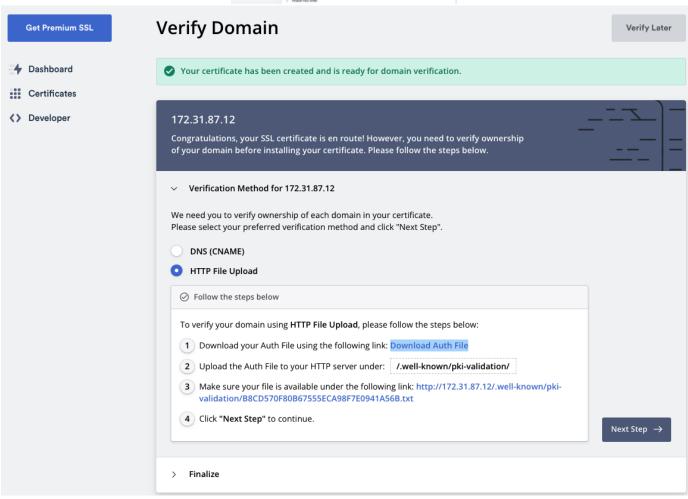
• ACCESS "Public IPv4 IP " → OK (view "DoTQ!!!")

install SSL (Linux)

```
@ yum -y install mod_ssl openssl
@ mkdir -p /etc/httpd/conf/tinhocthatladongian-ssl
@ cd /etc/httpd/conf/tinhocthatladongian-ssl
@ openssl genrsa > server.key
@ 11
-rw-r--r-- 1 root root 1679 Jan 22 14:27 server.key
@ openssl req -new -key server.key > server.csr
"
Country Name (2 letter code) [XX]:jp
Common Name (eg, your name or your server's hostname) []:107.21.140.244
A challenge password []:
"
@ 11
...
-rw-r--r-- 1 root root 985 Jan 22 14:29 server.csr
```

• access http://sslforfree.com > create cert > Verify Domain > HTTP File Upload (neu chon "auto generate csr "thi KO can "s erver.csr")





download file "AA72F2E033807864E58BCAD9BDEF99B6.txt"

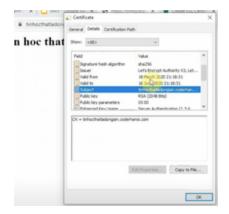
```
@ cd /var/www/html/tinhocthatladongian/
@ mkdir .well-known
@ cd .well-known/
@ mkdir pki-validation
@ ll
drwxr-xr-x 2 root root 6 Jan 22 14:43 pki-validation
@ vim pki-validation/AA72F2E033807864E58BCAD9BDEF99B6.txt
paste content "AA....txt"
@ wget http://172.31.87.12/.well-known/pki-validation/AA...txt
--2022-01-22 15:00:25-- http://172.31.87.12/.well-known/pki-validation
/AA....txt
Connecting to 172.31.87.12:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 94 [text/plain]
```

• click "Next step " > "Verify Domain " > will verify cert OK and send mail



• Download Certificate "107.21.140.244.zip " & extract

```
# chmod 777 107.21.140.244
# scp -i dotq_linux-64_test.pem 107.21.140.244/* ec2-user@ec2-107-21-
140-244.compute-1.amazonaws.com:/tmp
@ 11 /tmp
total 12
-rw-rw-r-- 1 ec2-user ec2-user 2431 Nov 28 17:44 ca_bundle.crt
-rw-rw-r-- 1 ec2-user ec2-user 2273 Nov 28 17:44 certificate.crt
-rw-rw-r-- 1 ec2-user ec2-user 1702 Nov 28 17:44 private.key
@ cd /etc/httpd/conf/tinhocthatladongian-ssl
@ cp -f /tmp/*.crt .
@ cp -f /tmp/private.key .
@ chmod 600 ca_bundle.crt
@ chmod 600 certificate.crt
@ 11
total 20
-rw----- 1 root root 2431 Nov 28 17:48 ca bundle.crt
-rw----- 1 root root 2273 Nov 28 17:48 certificate.crt
-rw-r--r-- 1 root root 1702 Nov 28 17:49 private.key
-rw-r--r-- 1 root root 989 Nov 28 17:06 server.csr
-rw-r--r-- 1 root root 1675 Nov 28 17:02 server.key
@ vim /etc/httpd/conf.d/ssl.conf
<VirtualHost _default_:443>
    SSLEngine On
    ServerAdmin info@coderhanoi.com
    DocumentRoot "/var/www/html/tinhocthatladongian/"
    ServerName 107.21.140.244
    SSLCertificateFile "/etc/httpd/conf/tinhocthatladongian-ssl
/certificate.crt"
    SSLCertificateChainFile "/etc/httpd/conf/tinhocthatladongian-ssl
/ca bundle.crt"
    SSLCertificateKeyFile "/etc/httpd/conf/tinhocthatladongian-ssl
    <Directory "/var/www/html/tinhocthatladongian/">
        Order deny, allow
        Allow from all
        AllowOverride All
        Require all granted
   </Directory>
</VirtualHost>
@ service httpd restart
@ telnet localhost 443
```



(if NG add HTTPS 443 into Inbound rule)

2-7) add Inbound rule

IP version	⊽ Туре	∇ Protocol	▽ Port range	▽ Source
IPv4	SSH	ТСР	22	0.0.0.0/0
IPv4	НТТР	ТСР	80	0.0.0.0/0

• ACCESS "http://18.206.255.179/" → OK (view "Apache2 Ubuntu Default Page" of /var/www/html/index.html)

2-8) install MySQL

```
$ sudo apt install mysql-server
$ sudo mysql_secure_installation
ALL Yes, except Disallow root login remotely?=No
$ sudo mysql
mysql>
```

2-9) config MySQL

```
mysql> SELECT user,plugin,host FROM mysql.user;
+----+
              plugin
                                host
+-----
         auth_socket | localhost |
| mysql.session | mysql_native_password | localhost | mysql.sys | mysql_native_password | localhost |
| debian-sys-maint | mysql_native_password | localhost |
+----+
mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH
mysql_native_password BY 'password'; // set PW='password'
Query OK, 0 rows affected (0.00 sec)
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.00 sec)
mysql> SELECT user,plugin,host FROM mysql.user;
+----+
user
             plugin
                                host
+----+
            | mysql_native_password | localhost |
root
mysql> exit
$ sudo mysql
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using
password: NO)
```

2-10) install PHP

```
$ sudo apt install php libapache2-mod-php php-mysql
$ sudo vim /etc/apache2/mods-enabled/dir.conf
move "index.php" to the beginning
$ sudo cat /etc/apache2/mods-enabled/dir.conf
<IfModule mod dir.c>
        DirectoryIndex index.php index.html index.cgi index.pl index.
xhtml index.htm
</IfModule>
$ sudo systemctl restart apache2
$ sudo systemctl status apache2
 apache2.service - The Apache HTTP Server
  Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor
preset: enabled)
  Drop-In: /lib/systemd/system/apache2.service.d
          apache2-systemd.conf
  Active: active (running) since Mon 2021-11-01 17:25:47 UTC; 30s ago
$ apt show php-cli // chi show info, chua bit da cai hay chua!!!
```

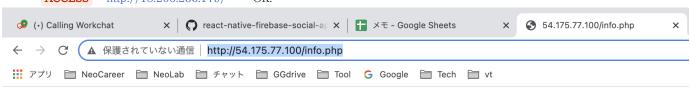
2-11) setup virtual host in Apache

```
$ sudo mkdir /var/www/dotq-wp-api
$ sudo chown -R $USER:$USER /var/www/dotq-wp-api/
$ 11
total 16
drwxr-xr-x 4 root root 4096 Nov 1 17:40 ./
drwxr-xr-x 14 root root 4096 Nov 1 17:01 ../
drwxr-xr-x 2 dotq dotq 4096 Nov 1 17:40 dotq-wp-api/ // DA change
thanh "dotq:dotq"
$ sudo chmod -R 755 /var/www/dotq-wp-api/
$ vim dotq-wp-api/index.php
<?php
echo('Hello!!!');
$ sudo nano /etc/apache2/sites-available/dotq_wp_api.conf
$ sudo cat /etc/apache2/sites-available/dotg wp api.conf
<VirtualHost *:80>
    ServerAdmin webmaster@localhost
    ServerName your_domain
   ServerAlias www.your_domain
   DocumentRoot /var/www/dotq-wp-api
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

• change/etc/apache2/sites-available/000-default.conf → dotq_wp_api.conf

```
$ sudo a2ensite dotq_wp_api.conf
$ sudo a2dissite 000-default.conf
$ sudo apache2ctl configtest
Syntax OK
$ sudo systemctl restart apache2
```

• ACCESS "http://18.206.255.179/" → OK!



Hello!!!

```
$ sudo nano /var/www/dotq-wp-api/info.php
$ sudo cat /var/www/dotq-wp-api/info.php
<?php
phpinfo();</pre>
```

• **ACCESS** "http://18.206.255.179/info.php " → OK!

2-12) install wordpress

 $\bullet \ \ reference: \ https://www.digitalocean.com/community/tutorials/how-to-install-wordpress-with-lamp-on-ubuntu-18-04$

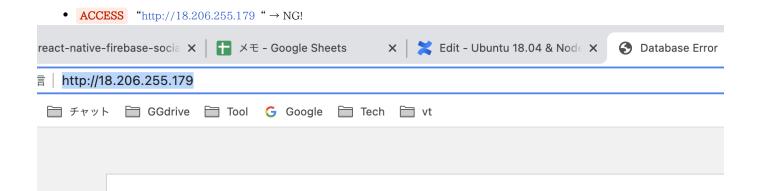
```
$ mysql -u root -p
mysql> CREATE DATABASE dotq_wp_api DEFAULT CHARACTER SET utf8 COLLATE
utf8_unicode_ci; // create DB "dotq_wp_api"
mysql> GRANT ALL ON dotq_wp_api.* TO 'acc_wp_api_dotq'@'localhost'
IDENTIFIED BY 'password'; // create user "acc_wp_api_dotq" & PW
"password"
$ mysql -u acc_wp_api_dotq -p
mysql> SELECT user();
+----+
user()
+----+
acc_wp_api_dotq@localhost
+----+
$ sudo apt install php-curl php-gd php-mbstring php-xml php-xmlrpc php-
soap php-intl php-zip
$ sudo systemctl restart apache2
$ sudo cat /etc/apache2/sites-available/dotq_wp_api.conf
<Directory /var/www/dotq-wp-api/>
   AllowOverride All
</Directory>
<VirtualHost *:80>
   ServerAdmin webmaster@localhost
$ sudo a2enmod rewrite
$ sudo apache2ctl configtest
Syntax OK
$ sudo systemctl restart apache2
```

2-13) enable proxy

```
$ apache2ctl -M
Loaded Modules:
  core_module (static)
  ...
$ apache2ctl -M | grep proxy // chua co "proxy"!!!
$ sudo a2enmod proxy
$ sudo a2enmod proxy_http
$ sudo systemctl restart apache2
$ apache2ctl -M | grep proxy
proxy_module (shared)
proxy_http_module (shared)
```

2-14) DL & config wordpress

```
$ cd /tmp
tmp$ curl -0 https://wordpress.org/latest.tar.gz
$ tar xzvf latest.tar.gz
$ 11 | grep wordpress
drwxr-xr-x 5 dotq dotq 4096 Sep 9 02:20 wordpress/
$ rm -rf latest.tar.gz
$ touch /tmp/wordpress/.htaccess
$ cp /tmp/wordpress/wp-config-sample.php /tmp/wordpress/wp-config.php
$ 11 /tmp/wordpress/ | grep wp-config
-rw-r--r 1 dotq dotq 3004 May 21 10:40 wp-config-sample.php
-rw-r--r-- 1 dotq dotq 3004 Nov 1 18:50 wp-config.php
$ mkdir /tmp/wordpress/wp-content/upgrade
$ sudo cp -a /tmp/wordpress/. /var/www/dotq-wp-api
$ 11 /var/www/dotq-wp-api
total 228
drwxr-xr-x 5 dotq dotq 4096 Nov 7 15:09 ./
drwxr-xr-x 4 root root 4096 Nov 7 14:50 ../
-rw-rw-r-- 1 dotq dotq
                         0 Nov 7 15:08 .htaccess
-rw-r--r- 1 dotq dotq 405 Feb 6 2020 index.php
-rw-r--r-- 1 root root 24 Nov 7 14:58 info.php
-rw-r--r- 1 dotq dotq 19915 Jan 1 2021 license.txt
-rw-r--r- 1 dotg dotg 7346 Jul 6 12:23 readme.html
-rw-r--r- 1 dotq dotq 7165 Jan 21 2021 wp-activate.php
drwxr-xr-x 9 dotq dotq 4096 Sep 9 02:20 wp-admin/
. . .
$ sudo chown -R www-data:www-data /var/www/dotq-wp-api
$ sudo find /var/www/dotq-wp-api/ -type d -exec chmod 750 {} \;
$ sudo find /var/www/dotq-wp-api/ -type f -exec chmod 640 {} \;
/var/www$ ll | grep dotq
drwxr-x--- 5 www-data www-data 4096 Nov 1 18:50 dotq-wp-api/
```



Error establishing a database connection

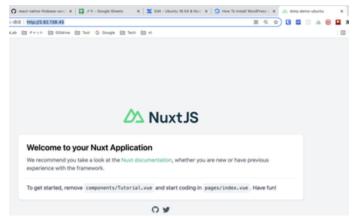
```
$ curl -s https://api.wordpress.org/secret-key/1.1/salt/
define('AUTH_KEY', 'a8~0.r...');
...
-> copy paste to "wp-config.php"
$ sudo vim dotq-wp-api/wp-config.php
edit:
define( 'DB_NAME', 'dotq_wp_api' );
define( 'DB_USER', 'acc_wp_api_dotq' );
define( 'DB_PASSWORD', 'password' );
...
define('FS_METHOD', 'direct');
```

• **ACCESS** "http://18.206.255.179" \rightarrow OK!

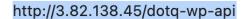


```
$ sudo vim /etc/apache2/sites-available/dotq_wp_api.conf
<VirtualHost *:80>
 ProxyPass /dotq-wp-api/ http://127.0.0.1:9999/dotq-wp-api/
ProxyPassReverse /dotq-wp-api/ http://127.0.0.1:9999/dotq-wp-api/
ProxyPass / http://127.0.0.1:3000/ // neu KO install NUXT, KO xai 3000
ma cho nay KO set port (VD: http://127.0.0.1/) thi KO chay luon!
 ProxyPassReverse / http://127.0.0.1:3000/
ProxyRequests On
ProxyPreserveHost On
</VirtualHost>
<VirtualHost *:9999>
    ServerAdmin webmaster@localhost
    ServerName your domain
    ServerAlias www.your_domain
    DocumentRoot /var/www
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
 <Directory /var/www/>
    AllowOverride All
 </Directory>
</VirtualHost>
$ sudo vim ../ports.conf
add "Listen 9999"
$ sudo apache2ctl configtest
Syntax OK
$ sudo systemctl restart apache2
$ cd /home/ubuntu/nuxtjs/dotq-demo-ubuntu
$ npm run start
```

• **ACCESS** "http://18.206.255.179 " → OK!



• Note: without "/", ACCESS "http://18.206.255.179/dotq-wp-api" \rightarrow NG!





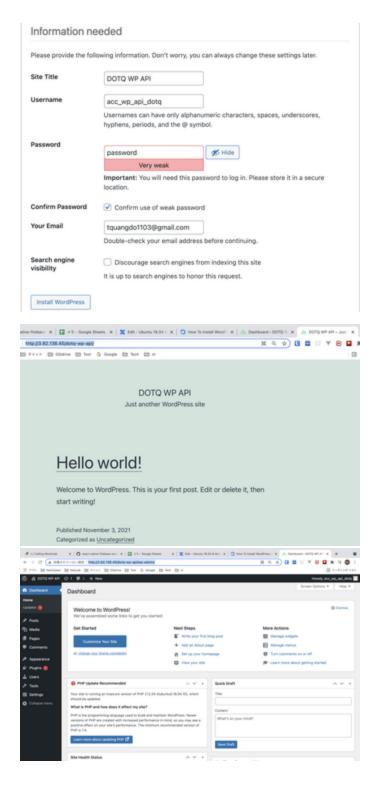


This page could not be found

Back to the home page

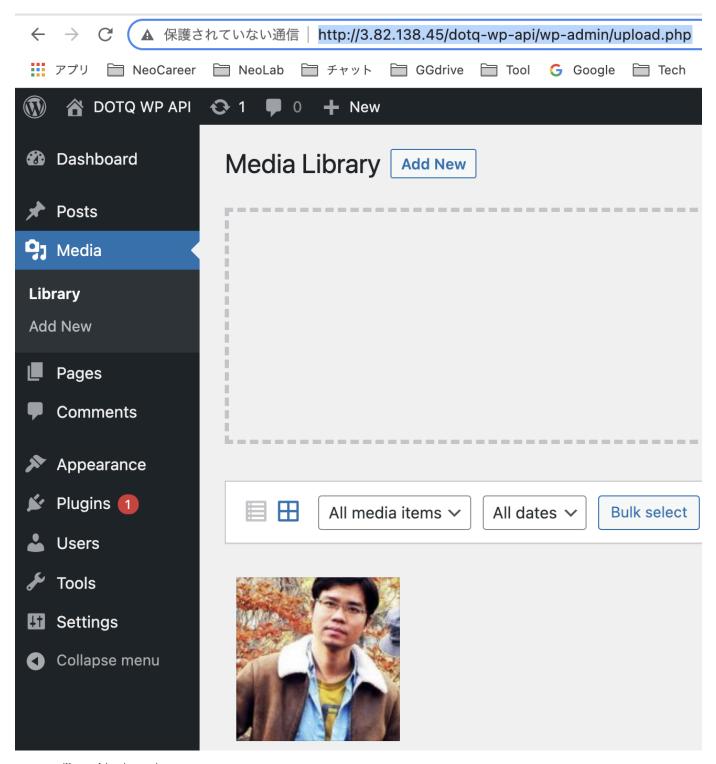
• ACCESS "http://18.206.255.179/dotq-wp-api/" → OK!





2-16) process with wordpress

• Media > upload picture "do_tranquang.jpg "



• will see this picture in:

```
$ sudo ls -la /var/www/dotq-wp-api/wp-content/uploads/2021/11
total 36
drwxr-x--- 2 www-data www-data 4096 Nov 3 16:15 .
drwxr-x--- 3 www-data www-data 4096 Nov 3 16:11 ..
-rw-r---- 1 www-data www-data 9206 Nov 3 16:15 do_tranquang-150x150.
jpg
-rw-r---- 1 www-data www-data 14955 Nov 3 16:15 do_tranquang.jpg
```

• Plugins > install "post views counter "



• will see this plugin in:

```
$ sudo ls -la /var/www/dotq-wp-api/wp-content/plugins total 24 drwxr-x--- 4 www-data www-data 4096 Nov 3 16:25 . drwxr-x--- 6 www-data www-data 4096 Nov 3 16:11 .. drwxr-x--- 4 www-data www-data 4096 Sep 9 02:20 akismet -rw-r---- 1 www-data www-data 2578 Mar 18 2019 hello.php -rw-r---- 1 www-data www-data 28 Jun 5 2014 index.php drwxr-xr-x 7 www-data www-data 4096 Nov 3 16:25 post-views-counter
```

2-17) install pm2

```
$ sudo npm i -g pm2
/home/ubuntu/nuxtjs/dotq-demo-ubuntu$ sudo vim ecosystem.config.js
module.exports = {
 apps: [
   {
     name: 'DoTQNuxtAppName',
     exec_mode: 'cluster',
     instances: 'max', // Or a number of instances
     script: './node_modules/nuxt/bin/nuxt.js',
     args: 'start'
   }
 ]
$ pm2 start
id
    name
                  namespace version mode pid uptime
              cpu mem
                               user watching
    status
                                  2.15.8 cluster 3453
     DoTQNuxtAppName
0
                     default
                      0% 31.4mb dotq disabled
0s
     0 online
```

2-18) install phpmyadmin

 $\bullet \ \ reference: https://www.digitalocean.com/community/tutorials/how-to-install-and-secure-phpmyadmin-on-ubuntu-18-04$

```
$ sudo apt update
$ sudo apt install phpmyadmin php-mbstring php-gettext
NOTE: PW must complicate, include special char (Ex: Tgdd61mevado@...)
$ sudo phpenmod mbstring
$ sudo systemctl restart apache2
$ mysql -u root -p
mysql> SELECT user,plugin,host FROM mysql.user; // will see "phpmyadmin"
+----+
              plugin
+----+
              | mysql_native_password | localhost |
mysql.session mysql_native_password | localhost
| debian-sys-maint | mysql_native_password | localhost |
acc_wp_api_dotq | mysql_native_password | localhost |
| phpmyadmin | mysql_native_password | localhost |
+----+
mysql> CREATE USER 'dotq'@'localhost' IDENTIFIED BY 'Tgdd61mevado@';
Query OK, 0 rows affected (0.00 sec)
mysql> GRANT ALL PRIVILEGES ON *.* TO 'dotq'@'localhost' WITH GRANT
OPTION;
```

• revert "dotq_wp_api.conf"

```
$ sudo cp /etc/apache2/sites-available/dotq_wp_api.conf /etc/apache2
/sites-available/dotq_wp_api_proxy.conf
$ sudo cat /etc/apache2/sites-available/dotq_wp_api.conf
<Directory /var/www/dotq-wp-api/>
   AllowOverride All
</Directory>
<VirtualHost *:80>
    ServerAdmin webmaster@localhost
   ServerName your_domain
   ServerAlias www.your_domain
   DocumentRoot /var/www/dotq-wp-api
   ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
$ sudo apache2ctl configtest
Syntax OK
$ sudo systemctl restart apache2
```



2-19) secure phpmyadmin

```
$ sudo nano /etc/apache2/conf-available/phpmyadmin.conf
add "AllowOverride All"
$ sudo systemctl restart apache2
$ sudo nano /usr/share/phpmyadmin/.htaccess
AuthType Basic
AuthName "Restricted Files"
AuthUserFile /etc/phpmyadmin/.htpasswd
Require valid-user

$ sudo htpasswd -c /etc/phpmyadmin/.htpasswd dotq // for 2nd time,
remove "-c"
$ cat /etc/phpmyadmin/.htpasswd
dotq:$apr1$RBWImlTa$uFVvmOpAiQKtsw4pAD2F..
```

• ACCESS "http://18.206.255.179/phpmyadmin " \rightarrow OK!

