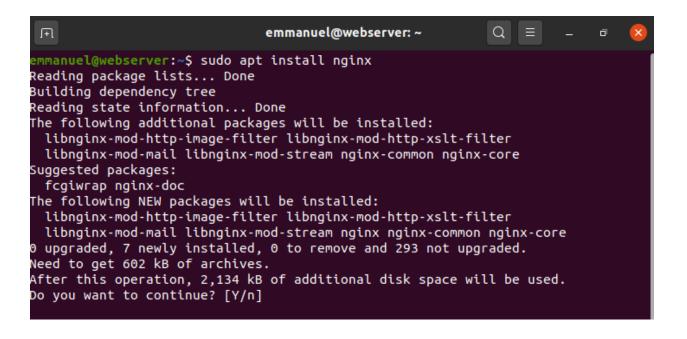
Step 1 – Installing the Nginx Web Server

```
emmanuel@webserver: ~
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo root" for details.
emmanuel@webserver:~$ sudo apt update
[sudo] password for emmanuel:
Hit:1 http://us.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://us.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu focal-backports InRelease [101 kB]
Get:4 http://security.ubuntu.com/ubuntu focal-security InRelease [109 kB]
Get:5 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 DEP-11 Metad
ata [263 kB]
Get:6 http://us.archive.ubuntu.com/ubuntu focal-updates/universe amd64 DEP-11 M
etadata [205 kB]
Get:7 http://us.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 DEP-11
Metadata [2,468 B]
Get:8 http://us.archive.ubuntu.com/ubuntu focal-backports/universe amd64 DEP-11
Metadata [1,768 B]
Get:9 http://security.ubuntu.com/ubuntu focal-security/main amd64 DEP-11 Metada
ta [24.3 kB]
Get:10 http://security.ubuntu.com/ubuntu focal-security/universe amd64 DEP-11 M
etadata [56.5 kB]
Fetched 876 kB in 2s (463 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
293 packages can be upgraded. Run 'apt list --upgradable' to see them.
```



```
emmanuel@webserver:~$ sudo ufw app list
Available applications:
   CUPS
   Nginx Full
   Nginx HTTP
   Nginx HTTPS
emmanuel@webserver:~$
```

```
emmanuel@webserver:~$ sudo ufw app list
Available applications:
  CUPS
  Nginx Full
  Nginx HTTP
  Nginx HTTPS
emmanuel@webserver:~$ sudo apt install openssh-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  ncurses-term openssh-sftp-server ssh-import-id
Suggested packages:
 molly-quard monkeysphere ssh-askpass
The following NEW packages will be installed:
  ncurses-term openssh-server openssh-sftp-server ssh-import-id
0 upgraded, 4 newly installed, 0 to remove and 293 not upgraded.
Need to get 688 kB of archives.
After this operation, 6,010 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```

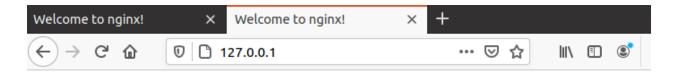
```
emmanuel@webserver:~$ sudo systemctl status ssh
ssh.service - OpenBSD Secure Shell server
     Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: >
     Active: active (running) since Tue 2020-12-22 18:39:23 EST; 1min 0s ago
      Docs: man:sshd(8)
            man:sshd config(5)
  Main PID: 4104 (sshd)
     Tasks: 1 (limit: 2319)
     Memory: 1.1M
     CGroup: /system.slice/ssh.service
             4104 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
Dec 22 18:39:23 webserver systemd[1]: Starting OpenBSD Secure Shell server...
Dec 22 18:39:23 webserver sshd[4104]: Server listening on 0.0.0.0 port 22.
Dec 22 18:39:23 webserver sshd[4104]: Server listening on :: port 22.
Dec 22 18:39:23 webserver systemd[1]: Started OpenBSD Secure Shell server.
lines 1-15/15 (END)
```

```
emmanuel@webserver:~$ sudo ufw allow ssh
Rules updated
Rules updated (v6)
emmanuel@webserver:~$
```

```
emmanuel@webserver:~$ sudo ufw app list
Available applications:
   CUPS
   Nginx Full
   Nginx HTTP
   Nginx HTTPS
   OpenSSH
emmanuel@webserver:~$
```

```
emmanuel@webserver:~$ sudo ufw allow 'Nginx HTTP'
Rules updated
Rules updated (v6)
emmanuel@webserver:~$ sudo ufw status
Status: inactive
emmanuel@webserver:~S sudo ufw enable
Firewall is active and enabled on system startup
emmanuel@webserver:~$ sudo ufw status
Status: active
To
                           Action
                                       From
22/tcp
                           ALLOW
                                       Anywhere
                          ALLOW
Nginx HTTP
                                       Anywhere
22/tcp (v6)
                          ALLOW
                                       Anywhere (v6)
Nginx HTTP (v6)
                          ALLOW
                                       Anywhere (v6)
emmanuel@webserver:~$
```

```
emmanuel@webserver:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group defau
lt qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid lft forever preferred lft forever
    inet6 ::1/128 scope host
       valid lft forever preferred lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER UP> mtu 1500 qdisc fq codel state UP q
roup default glen 1000
    link/ether 08:00:27:62:d5:d5 brd ff:ff:ff:ff:ff
    inet 192.168.0.9/24 brd 192.168.0.255 scope global dynamic noprefixroute en
D0s3
       valid lft 2842sec preferred lft 2842sec
    inet6 2601:5cb:100:6a70:9ce6:6d65:be11:e4d6/128 scope global dynamic nopref
ixroute
       valid lft 2844sec preferred lft 2844sec
    inet6 2601:5cb:100:6a70:e892:e425:751b:a321/64 scope global temporary dynam
ic
       valid lft 3600sec preferred lft 3600sec
    inet6 2601:5cb:100:6a70:5d25:ed08:28a8:58cf/64 scope global dynamic mngtmpa
ddr noprefixroute
       valid_lft 3600sec preferred_lft 3600sec
    inet6 fe80::b670:bfe:140f:e93c/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
emmanuel@webserver:~S
```



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to <u>nginx.org</u>. Commercial support is available at <u>nginx.com</u>.

Thank you for using nginx.



Step 2 — Installing MySQL

```
emmanuel@webserver:~$ sudo apt install mysql-server+
[sudo] password for emmanuel:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libaio1 libcgi-fast-perl libcgi-pm-perl libevent-core-2.1-7
  libevent-pthreads-2.1-7 libfcqi-perl libhtml-template-perl libmecab2
  mecab-ipadic mecab-ipadic-utf8 mecab-utils mysgl-client-8.0
  mysql-client-core-8.0 mysql-server-8.0 mysql-server-core-8.0
Suggested packages:
  libipc-sharedcache-perl mailx tinyca
The following NEW packages will be installed:
  libaio1 libcgi-fast-perl libcgi-pm-perl libevent-core-2.1-7
  libevent-pthreads-2.1-7 libfcqi-perl libhtml-template-perl libmecab2
  mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0
 mysql-client-core-8.0 mysql-server mysql-server-8.0 mysql-server-core-8.0
O upgraded, 16 newly installed, O to remove and 179 not upgraded.
Need to get 30.4 MB of archives.
After this operation, 248 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

```
emmanuel@webserver:~$ sudo mysql_secure_installation

Securing the MySQL server deployment.

Connecting to MySQL using a blank password.

VALIDATE PASSWORD COMPONENT can be used to test passwords and improve security. It checks the strength of password and allows the users to set only those passwords which are secure enough. Would you like to setup VALIDATE PASSWORD component?

Press y|Y for Yes, any other key for No:
```

```
emmanuel@webserver:~$ sudo mysql
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.22-Oubuntu0.20.04.3 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

Step 3 – Installing PHP

```
emmanuel@webserver:~$ sudo apt install php-fpm php-mysql
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
 php-common php7.4-cli php7.4-common php7.4-fpm php7.4-json php7.4-mysql
 php7.4-opcache php7.4-readline
Suggested packages:
 php-pear
The following NEW packages will be installed:
 php-common php-fpm php-mysql php7.4-cli php7.4-common php7.4-fpm
 php7.4-json php7.4-mysql php7.4-opcache php7.4-readline
0 upgraded, 10 newly installed, 0 to remove and 179 not upgraded.
Need to get 4,202 kB of archives.
After this operation, 18.6 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

Step 4 — Configuring Nginx to Use the PHP Processor

```
emmanuel@webserver:~$ sudo mkdir /var/www/fuspec
emmanuel@webserver:~$ sudo chown -R $USER:$USER /var/www/fuspec
emmanuel@webserver:~$ sudo nano /etc/nginx/sites-available/fuspec
emmanuel@webserver:~$
```

```
emmanuel@webserver:~$ sudo ln -s /etc/nginx/sites-available/`fuspec` /etc/nginx
/sites-enabled/
fuspec: command not found
emmanuel@webserver:~$ sudo ln -s /etc/nginx/sites-available/fuspec /etc/nginx/s
ites-enabled/
emmanuel@webserver:~$ sudo ln -s /etc/nginx/sites-available/fuspec /etc/nginx/s
ites-enabled/
ln: failed to create symbolic link '/etc/nginx/sites-enabled/fuspec': File exis
ts
emmanuel@webserver:~$ sudo nginx -t
nginx: [emerg] unknown directive "/etc/nginx/sites-available/`fuspec`" in /etc/
nginx/sites-enabled/fuspec:3
nginx: configuration file /etc/nginx/nginx.conf test failed
emmanuel@webserver:~$
```

```
mmanuel@webserver:~$ ip a
1: lo: <LOOPBACK.UP.LOWER UP> mtu 65536 qdisc noqueue state UNKNOWN group defau
lt qlen 1000
   link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
   inet 127.0.0.1/8 scope host lo
      valid_lft forever preferred_lft forever
   inet6 ::1/128 scope host
      valid lft forever preferred lft forever
2: enp0s3: <BROADCAST.MULTICAST.UP.LOWER UP> mtu 1500 qdisc fq codel state UP q
roup default glen 1000
   link/ether 08:00:27:62:d5:d5 brd ff:ff:ff:ff:ff:ff
   inet 192.168.0.9/24 brd 192.168.0.255 scope global dynamic noprefixroute en
00s3
      valid_lft 3448sec preferred_lft 3448sec
   inet6 2601:5cb:100:6a70:5078:7554:64db:1bb9/64 scope global temporary dynam
ic
      valid lft 3600sec preferred lft 3600sec
   inet6 2601:5cb:100:6a70:5d25:ed08:28a8:58cf/64 scope global dynamic mngtmpa
ddr noprefixroute
      valid_lft 3600sec preferred_lft 3600sec
   inet6 fe80::b670:bfe:140f:e93c/64 scope link noprefixroute
      valid lft forever preferred lft forever
emmanuel@webserver:~$ sudo mkdir /var/www/192.168.0.9
emmanuel@webserver:~$ sudo chown -R $USER:$USER /var/www/192.168.0.9
mmanuel@webserver:~$ sudo nano /etc/nginx/sites-available/192.168.0.9
```

```
GNU nano 4.8
                      /etc/nginx/sites-available/your_domain
                                                                      Modified
/etc/nginx/sites-available/`your_domain`
server {
   listen 80;
   server_name `your_domain` www.`your_domain`;
   root /var/www/`your_domain`;
   index index.html index.htm index.php;
   location / {
       try files $uri $uri/ =404;
   location ~ \.php$ {
       include snippets/fastcgi-php.conf;
        fastcgi_pass unix:/var/run/php/php7.4-fpm.sock;
    }
   location ~ /\.ht {
       deny all;
'G Get Help
               ^O Write Out
                              ^W Where Is
                                             ^K Cut Text
                                                             ^J Justify
'X Exit
               ^R Read File
                              ^\ Replace
                                                Paste Text
                                                             ^T To Spell
```

```
emmanuel@webserver:~$ sudo chown -R $USER:$USER /var/www/your_domain
emmanuel@webserver:~$ sudo nano /etc/nginx/sites-available/your_domain
emmanuel@webserver:~$ sudo ln -s /etc/nginx/sites-available/`your_domain` /etc/
nginx/sites-enabled/
your_domain: command not found
ln: failed to create symbolic link '/etc/nginx/sites-enabled/sites-available':
File exists
emmanuel@webserver:~$
```

```
emmanuel@webserver:~$ sudo nginx -t
nginx: [emerg] open() "/etc/nginx/sites-enabled/192.168.0.9" failed (2: No such
file or directory) in /etc/nginx/nginx.conf:62
nginx: configuration file /etc/nginx/nginx.conf test failed
emmanuel@webserver:~$ sudo ls -ltr /var/www
total 8
drwxr-xr-x 2 root
                               4096 Dec 22 18:34 html
                      root
drwxr-xr-x 2 emmanuel emmanuel 4096 Dec 24 12:09 vour domain
emmanuel@webserver:~$ sudo nginx -t
nginx: [emerg] open() "/etc/nginx/sites-enabled/192.168.0.9" failed (2: No such
file or directory) in /etc/nginx/nginx.conf:62
nginx: configuration file /etc/nginx/nginx.conf test failed
emmanuel@webserver:~$ sudo ls -ltr /etc/nginx/sites-enabled/
total 0
lrwxrwxrwx 1 root root 34 Dec 22 18:34 default -> /etc/nginx/sites-available/de
fault
lrwxrwxrwx 1 root root 27 Dec 24 11:33 sites-available -> /etc/nginx/sites-avai
lrwxrwxrwx 1 root root 33 Dec 24 11:33 fuspec -> /etc/nginx/sites-available/fus
pec
lrwxrwxrwx 1 root root 38 Dec 24 11:48 192.168.0.9 -> /etc/nginx/sites-availabl
e/192.168.0.9
emmanuel@webserver:~$ sudo rm /etc/nginx/sites-enabled/sites-available/192.168.
0.9
[sudo] password for emmanuel:
rm: cannot remove '/etc/nginx/sites-enabled/sites-available/192.168.0.9': No su
ch file or directory
emmanuel@webserver:~$ cd etc
bash: cd: etc: No such file or directory
emmanuel@webserver:~$ cd /
emmanuel@webserver:/$ cd etc
emmanuel@webserver:/etc$ cd nginx
emmanuel@webserver:/etc/nginx$ cd sites-enabled
emmanuel@webserver:/etc/nginx/sites-enabled$ ls -ltr
total 0
lrwxrwxrwx 1 root root 34 Dec 22 18:34 default -> /etc/nginx/sites-available/de
lrwxrwxrwx 1 root root 27 Dec 24 11:33 sites-available -> /etc/nginx/sites-avai
lable/
```

lrwxrwxrwx 1 root root 33 Dec 24 11:33 fusper -> /etc/ngtnx/sites-available/fu

lrwxrwxrwx 1 root root 38 Dec 24 11:48 192.168.0.9 -> /etc/nginx/sites-availabl

emmanuel@webserver:/etc/nginx/sites-enabled\$

```
mmanuel@webserver:/etc/nginx/sites-enabled$ rm fuspec
m: cannot remove 'fuspec': Permission denied
emmanuel@webserver:/etc/nginx/sites-enabled$ sudo rm fuspec
emmanuel@webserver:/etc/nginx/sites-enabled$ ls -ltr
total 0
lrwxrwxrwx 1 root root 34 Dec 22 18:34 default -> /etc/nginx/sites-available/de
ault
rwxrwxrwx 1 root root 27 Dec 24 11:33 sites-available -> /etc/nginx/sites-avai
rwxrwxrwx 1 root root 38 Dec 24 11:48 192.188.0 9 -> /etc/ngtmc/sttes-availabl
mmanuel@webserver:/etc/nginx/sites-enabled$ sudo rm 192.168.0.9
mmanuel@webserver:/etc/nginx/sites-enabled$ ls -ltr
total 0
rwxrwxrwx 1 root root 34 Dec 22 18:34 default -> /etc/nginx/sites-available/de
ault
rwxrwxrwx 1 root root 27 Dec 24 11:33 sites-available -> /etc/nginx/sites-avai
lable/
emmanuel@webserver:/etc/nginx/sites-enabled$ sudo rm sites-available
mmanuel@webserver:/etc/nginx/sites-enabled$ ls -ltr
total 0
lrwxrwxrwx 1 root root 34 Dec 22 18:34 default -> /etc/nginx/sites-available/de
fault
mmanuel@webserver:/etc/nginx/sites-enabled$
```

```
emmanuel@webserver:/etc/nginx/sites-enabled$ cd
emmanuel@webserver:~$ ls -ltr
total 36
drwxr-xr-x 2 emmanuel emmanuel 4096 Dec 22 17:05 Videos
drwxr-xr-x 2 emmanuel emmanuel 4096 Dec 22 17:05 Templates
drwxr-xr-x 2 emmanuel emmanuel 4096 Dec 22 17:05 Public
drwxr-xr-x 2 emmanuel emmanuel 4096 Dec 22 17:05 Pictures
drwxr-xr-x 2 emmanuel emmanuel 4096 Dec 22 17:05 Music
drwxr-xr-x 2 emmanuel emmanuel 4096 Dec 22 17:05 Downloads
drwxr-xr-x 2 emmanuel emmanuel 4096 Dec 22 17:05 Documents
drwxr-xr-x 2 emmanuel emmanuel 4096 Dec 22 17:05 Desktop
-rw-rw-r-- 1 emmanuel emmanuel 1431 Dec 24 12:12 :
emmanuel@webserver:~$ sudo ln -s /etc/nginx/sites-available/`your_domain` /etc/
nginx/sites-enabled/
your_domain: command not found
emmanuel@webserver:~$ sudo nano /etc/nginx/sites-available/your_domain
emmanuel@webserver:~$ ls -lt var/www
ls: cannot access 'var/www': No such file or directory
emmanuel@webserver:~$ sudo ls -lt var/www
ls: cannot access 'var/www': No such file or directory
emmanuel@webserver:~$ sudo ls -lt var/www/your_domain
ls: cannot access 'var/www/your domain': No such file or directory
emmanuel@webserver:~$ sudo cd var
sudo: cd: command not found
emmanuel@webserver:~$ sudo cd /var
sudo: cd: command not found
```

```
:mmanuel@webserver:~$ sudo mkdir /var/www/`your_domain`
your domain: command not found
mkdir: cannot create directory '/var/www/': File exists
emmanuel@webserver:~$ sudo chown -R $USER:$USER /var/www/your_domain
emmanuel@webserver:~$ sudo nano /etc/nginx/sites-available/your_domain
emmanuel@webserver:~$ sudo ln -s /etc/nginx/sites-available/`your_domain` /etc/
nginx/sites-enabled/
your_domain: command not found
ln: failed to create symbolic link '/etc/nginx/sites-enabled/sites-available':
emmanuel@webserver:~$ sudo ls -ltr /etc/nginx/sites-enabled/
total 0
lrwxrwxrwx 1 root root 34 Dec 22 18:34 default -> /etc/nginx/sites-available/de
fault
lrwxrwxrwx 1 root root 27 Dec 24 13:29 sites-available -> /etc/nginx/sites-avai
lable/
emmanuel@webserver:~$ sudo nginx -t
nginx: [crit] pread() "/etc/nginx/sites-enabled/sites-available" failed (21: Is
a directory)
nginx: configuration file /etc/nginx/nginx.conf test failed
emmanuel@webserver:~$
```

```
ייייםווטבנעשבטאבו עבו ./ אָ כע בנכ
emmanuel@webserver:/etc$ cd nginx
emmanuel@webserver:/etc/nginx$ cd sites-enabled
emmanuel@webserver:/etc/nginx/sites-enabled$ ls -lt
total 0
lrwxrwxrwx 1 root root 27 Dec 24 13:29 sites-available -> /etc/nginx/sites-avai
lable/
lrwxrwxrwx 1 root root 34 Dec 22 18:34 default -> /etc/nginx/sites-available/de
fault
emmanuel@webserver:/etc/nginx/sites-enabled$ rm sites-available
rm: cannot remove 'sites-available': Permission denied
emmanuel@webserver:/etc/nginx/sites-enabled$ sudo rm sites-available
[sudo] password for emmanuel:
emmanuel@webserver:/etc/nginx/sites-enabled$ ls -lt
total 0
lrwxrwxrwx 1 root root 34 Dec 22 18:34 default -> /etc/nginx/sites-available/de
emmanuel@webserver:/etc/nginx/sites-enabled$ sudo ln -s /sites-available/your d
emmanuel@webserver:/etc/nginx/sites-enabled$ ls -lt
total 0
lrwxrwxrwx 1 root root 28 Dec 24 14:48 <mark>your_domain -> /sites-available/your_dom</mark>
fault
emmanuel@webserver:/etc/nginx/sites-enabledS cd
emmanuel@webserver:~$ sudo nginx -t
 Show Applications pen() "/etc/nginx/sites-enabled/your_domain" failed (2: No such ry) in /etc/nginx/nginx.conf:62
nginx: configuration file /etc/nginx/nginx.conf test failed
```

```
emmanuel@webserver:~$ sudo nano /etc/nginx/sites-available/your_domain
emmanuel@webserver:~$ sudo nginx -t
nginx: [emerg] open() "/etc/nginx/sites-enabled/your_domain" failed (2: No such
file or directory) in /etc/nginx/nginx.conf:62
nginx: configuration file /etc/nginx/nginx.conf test failed
emmanuel@webserver:~$ sudo nano /etc/nginx/sites-available/your domain
emmanuel@webserver:~$
emmanuel@webserver:~$ sudo rm -rf /etc/nginx/sites-available/your_domain
emmanuel@webserver:~$ sudo nano /etc/nginx/sites-available/your domain
emmanuel@webserver:~$ sudo ls -ltr /etc/nginx/sites-available
total 4
-rw-r--r-- 1 root root 2416 Mar 26 2020 default
emmanuel@webserver:~$ sudo mkdir /var/www/fuspec
emmanuel@webserver:~$ sudo ls -ltr /etc/nginx/sites-available
total 4
-rw-r--r-- 1 root root 2416 Mar 26 2020 default
emmanuel@webserver:~$ ls -ltr /var/www/fuspec
total 0
emmanuel@webserver:~$ sudo chown -R $USER:$USER /var/www/fuspec
emmanuel@webserver:~$ sudo nano /etc/nginx/sites-available/fuspec
```

```
emmanuel@webserver:~$ sudo rm -rf /etc/nginx/sites-enabled/your_domain
emmanuel@webserver:~$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
emmanuel@webserver:~$
```

I had to remove the first line from the configuration below to get me through

```
server {
    listen 80;
    server_name `your_domain` www.`your_domain`;
    root /var/www/`your_domain`;

    index index.html index.htm index.php;

    location / {
        try_files $uri $uri/ =404;
    }

    location ~ \.php$ {
        include snippets/fastcgi-php.conf;
        fastcgi_pass unix:/var/run/php/php7.4-fpm.sock;
    }

    location ~ /\.ht {
```

```
deny all;
}
```

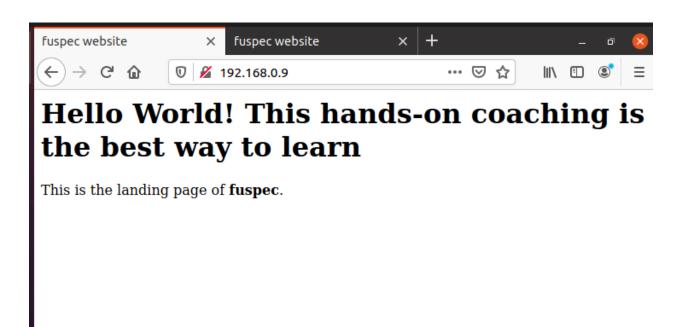
Also had to remove all the directories I had tried to use earlier from sites-available and sites-enabled folder to successfully link the new domain.

```
emmanuel@webserver:~$ sudo systemctl reload nginx
emmanuel@webserver:~$ sudo nano /var/www/fuspec/index.html
emmanuel@webserver:~$
```

```
emmanuel@webserver:~$ sudo rm /etc/nginx/sites-enabled/default
[sudo] password for emmanuel:
emmanuel@webserver:~$ sudo rm /etc/nginx/sites-enabled/default
rm: cannot remove '/etc/nginx/sites-enabled/default': No such file or directory
emmanuel@webserver:~$ sudo service nginx restart
emmanuel@webserver:~$
emmanuel@webserver:~$
emmanuel@webserver:~$
```

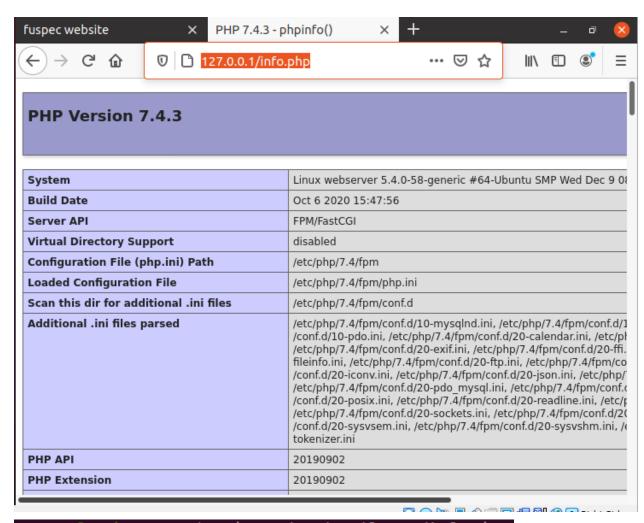
The test page did not show up until I ran the following command sudo rm /etc/nginx/sites-enabled/default

To disable the default server block file by removing the symbolic link



Step 5 –Testing PHP with Nginx

emmanuel@webserver:~\$ nano /var/www/fuspec/info.php



emmanuel@webserver:~\$ sudo rm /var/www/fuspec/info.php

Step 6 — Testing Database Connection from PHP

```
emmanuel@webserver:~$ sudo mysql
[sudo] password for emmanuel:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 8
Server version: 8.0.22-0ubuntu0.20.04.3 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

```
mysql> CREATE USER 'example_user'@'%' IDENTIFIED WITH mysql_native_password BY
'pass2020word2020';
ERROR 1819 (HY000): Your password does not satisfy the current policy requireme
mysql> SHOW VARIABLES LIKE 'validate_password%';
                                      Value
| Variable name
| validate_password.check_user_name
                                      ION
| validate_password.dictionary_file
| validate_password.length
                                      8
| validate_password.mixed_case_count
                                      1
| validate_password.number_count
| validate password.policy
                                      | MEDIUM |
| validate_password.special_char_count | 1
7 rows in set (0.21 sec)
mysql> CREATE USER 'example_user'@'%' IDENTIFIED WITH mysql_native_password BY
'Password#2020';
Query OK, 0 rows affected (0.01 sec)
mysql> GRANT ALL ON example_database.* TO 'example_user'@'%';
Query OK, 0 rows affected (0.06 sec)
mysql>
```

```
emmanuel@webserver:~$ mysql -u example_user -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 13
Server version: 8.0.22-0ubuntu0.20.04.3 (Ubuntu)
Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> mysql> SHOW DATABASES;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near 'mys
ql> SHOW DATABASES' at line 1
mysql> SHOW DATABASES;
| Database
| example database
| information_schema |
2 rows in set (0.05 sec)
mysql>
```

```
mysql> CREATE TABLE example_database.todo_list (
    -> mysql> item id INT AUTO INCREMENT,
                  content VARCHAR(255),
    -> mysql>
                  PRIMARY KEY(item id)
    -> mysql>
    -> mysql> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
 corresponds to your MySQL server version for the right syntax to use near '>
   item id INT AUTO INCREMENT,
          content VARCHAR(255),
mysql>
           PR' at line 2
mvsql>
mysql> sudo --version
    ->
    -> /c
    -> \c
mysql> /h
    -> \h
For information about MySQL products and services, visit:
   http://www.mysql.com/
For developer information, including the MySQL Reference Manual, visit:
   http://dev.mysql.com/
To buy MySQL Enterprise support, training, or other products, visit:
   https://shop.mysql.com/
```

```
mysql> CREATE TABLE example_database.todo_list (
-> item_id INT AUTO_INCREMENT,
-> content VARCHAR(255),
-> PRIMARY KEY(item_id)
-> );
Query OK, 0 rows affected (0.09 sec)

mysql>
```

```
mysql> INSERT INTO example_database.todo_list (content) VALUES ("My first import
ant item");
Query OK, 1 row affected (0.04 sec)
mysql> INSERT INTO example_database.todo_list (content) VALUES ("My second impor
tant item");
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO example_database.todo_list (content) VALUES ("My third import
ant item");
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO example_database.todo_list (content) VALUES ("and this one mo
re thingrtant item");
Query OK, 1 row affected (0.00 sec)
mysql>
mysql> SELECT * FROM example_database.todo_list;
| item_id | content
       1 | My first important item
       2 | My second important item
       3 | My third important item
       4 | and this one more thingrtant item |
4 rows in set (0.00 sec)
```

```
mysql> DELETE FROM employees
   -> \c
mysql> DELETE FROM todo list
   -> WHERE item_id = 4;
ERROR 1046 (3D000): No database selected
mysql> DELETE FROM example database.todo list
   -> WHERE item_id = 4;
Query OK, 1 row affected (0.10 sec)
mysql> SELECT * FROM example_database.todo_list;
 item_id | content
       1 | My first important item
       2 | My second important item |
       3 | My third important item
3 rows in set (0.00 sec)
mysql> INSERT INTO example database.todo list (content) VALUES ("and this one mo
re thingrtant item");
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO example database.todo list (content) VALUES ("and this one mo
re thingrtant item");
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO example database.todo list (content) VALUES ("and this one mo
re thing");
mysql> CREATE TABLE example database.todo list (
   -> item id INT AUTO INCREMENT,
   -> content VARCHAR(255),
   -> PRIMARY KEY(item_id)
   -> );
Query OK, 0 rows affected (2.04 sec)
mysql> INSERT INTO example_database.todo_list (content) VALUES ("My first import
ant item");
Query OK, 1 row affected (0.02 sec)
mysql> INSERT INTO example_database.todo_list (content) VALUES ("My second impor
tant item");
Query OK, 1 row affected (0.03 sec)
mysql> INSERT INTO example_database.todo_list (content) VALUES ("My_third import
ant item");
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO example database.todo list (content) VALUES ("and this one mo
re thing");
Query OK, 1 row affected (0.00 sec)
nysql>
```

