10/30/2022

DevOps

Assignment 01

***Submitted to:***

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***Submitted by:***

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**FA19-BCS-033**

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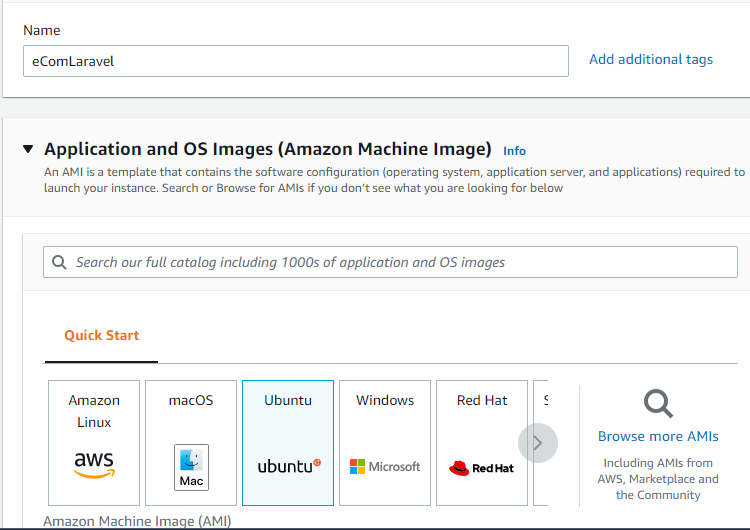
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# **Create a new instance**



Graphical user interface, text, application, email

Description automatically generated

Figure 1: Name the instance, and specify the OS to be installed

Graphical user interface, text, application, email

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Figure 2: Generate a key, to connect to VM from local system

Define the following security inbound rules:

Graphical user interface, text, application, email

Description automatically generated

Figure 3: Allow SSH traffic (to connect to instance) and allow HTTP traffic

Graphical user interface, text, application

Description automatically generated

Figure 4: New instance created

# **Connect to VM with PuTTYGraphical user interface, text, application, email Description automatically generated**

Figure 5: add Public IPv4 address Figure 6: Add your .ppk file (key)

# **Installing Apache server**

Run the following commands beforehand,

* sudo apt-get update
* sudo apt-get upgrade

Installing zip unzip extension

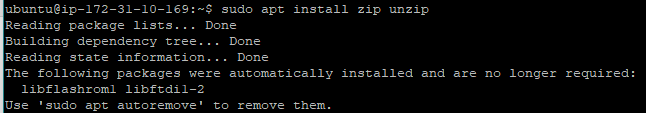


Figure 7: Install zip unzip extension

Install apache2

Text

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Figure 8: Install apache2 server

Check if apache2 is running:

Text

Description automatically generated

Figure 9: apache2 server is installed and running

Access public IPv4 DNS address to confirm Apache server installation

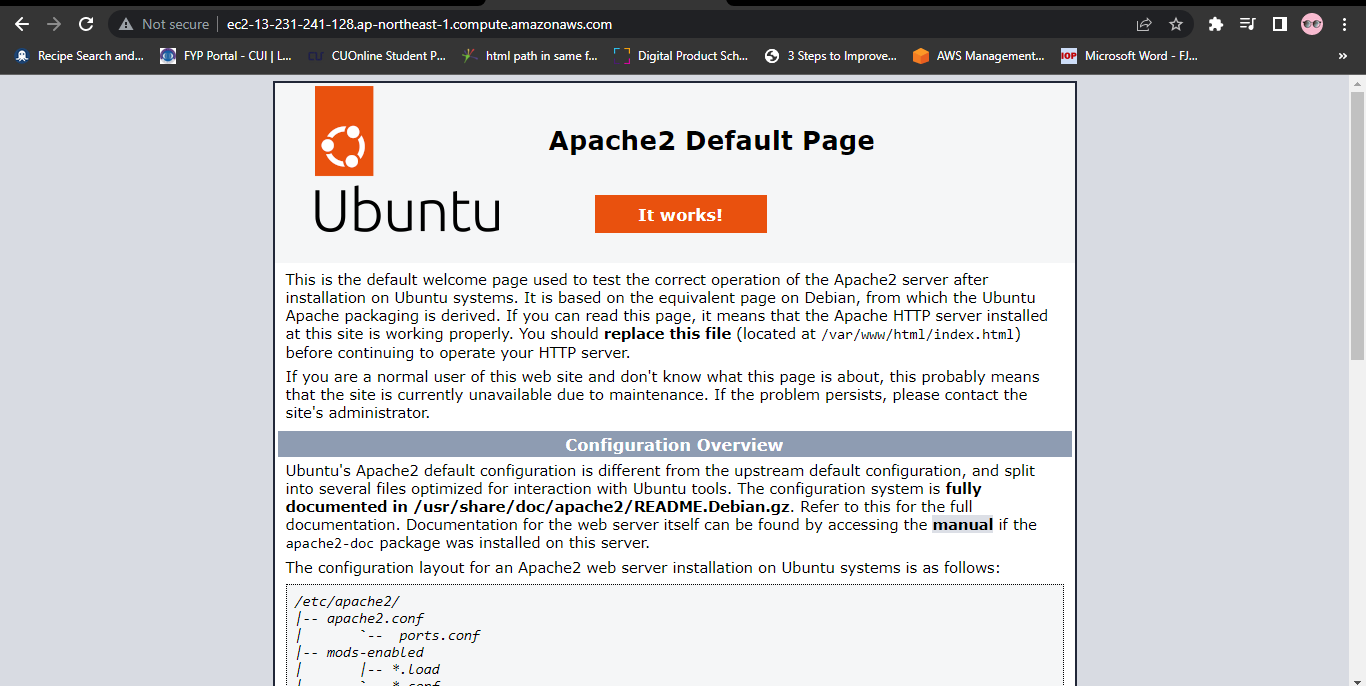


Figure 10: The following page response confirms Apache server installation on ubuntu:

# **Install MySQL**

Run the following commands to install MySQL server:

A screenshot of a computer

Description automatically generated with medium confidence

Figure 11: install MySQL server

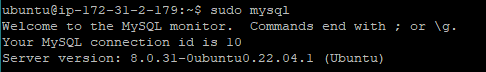


Figure 12: Switch to MySQL terminal to set password

Text

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Figure 13: Create password for root user

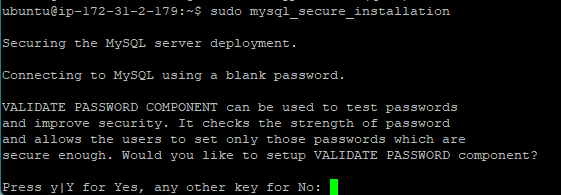


Figure 14: Install MySQL secure server

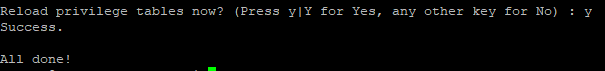


Figure 15: Configure the MySQL server

# **Install phpMyAdmin database**



Figure 15: Install phpMyAdmin database

Open the following file and edit:



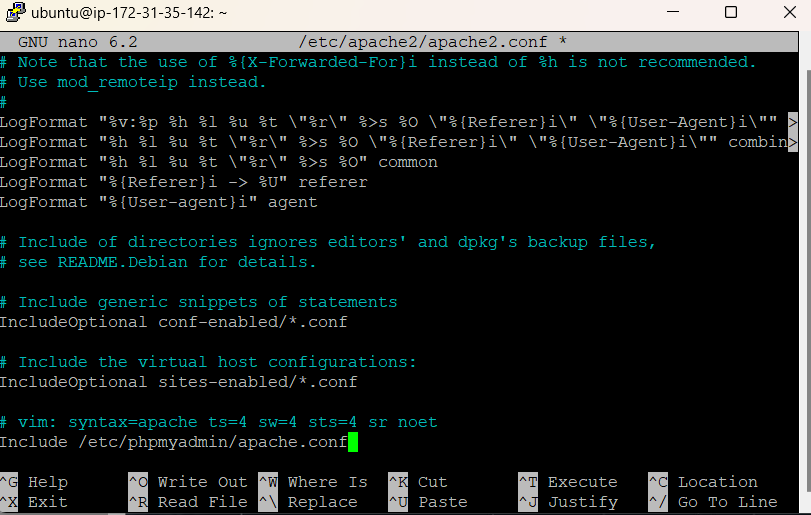


Figure 16 and 17: Add ***“Include /etc/phpMyAdmin/apache.conf”***



Figure 18: Restart your Apache server

Graphical user interface

Description automatically generated

Figure 19: access phpMyAdmin by URL: ***IP-address/phpMyAdmin/index.php***

Login to phpMyAdmin:

A screenshot of a computer

Description automatically generated

Figure 20: Login to phpMyAdmin with valid credentials

# **Install PHP**

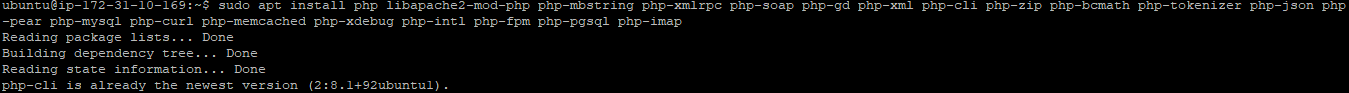


Figure 21: Run the following command to install PHP

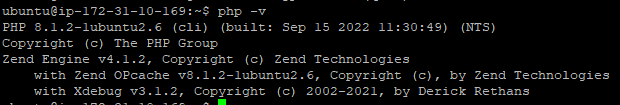


Figure 22: Check your php installed version

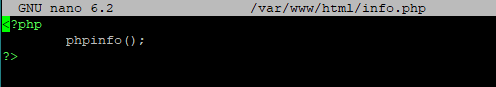


Figure 23: Add following lines to /var/www/html/info.php

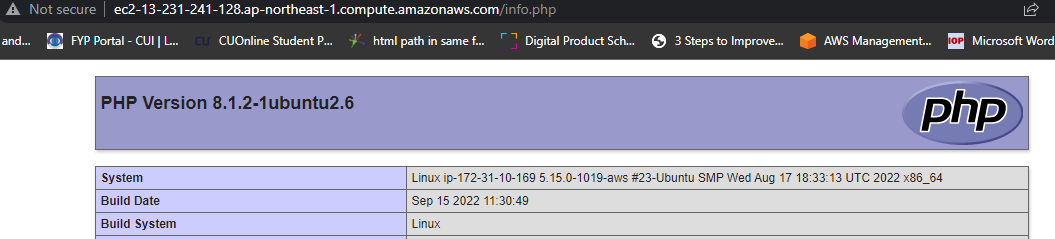


Figure 24: Accessing the following URL Confirms PHP installation:

# **Clone GitHub project**

Add code from GitHub to local repository, clone your project from GitHub

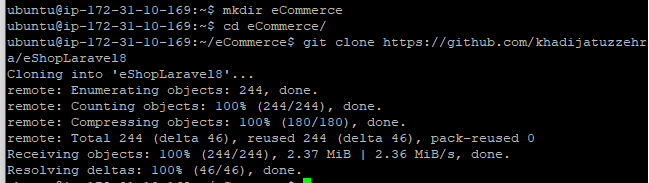


Figure 25: Create a new directory and clone project from GitHub repo

Install composer:



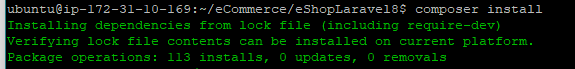


Figure 26 and 27: Install composer by following commands



Figure 28: Copy .env.example to .env

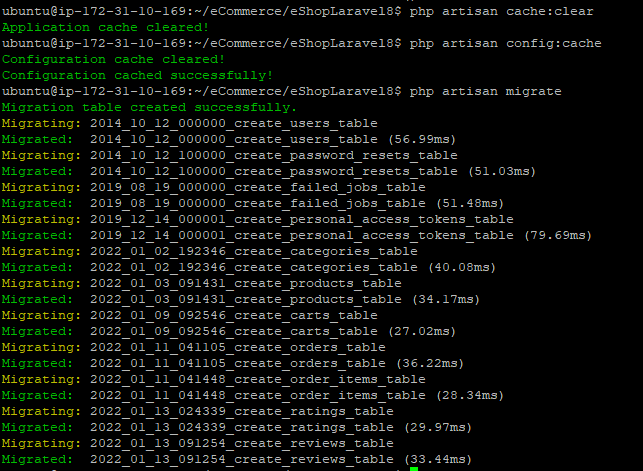
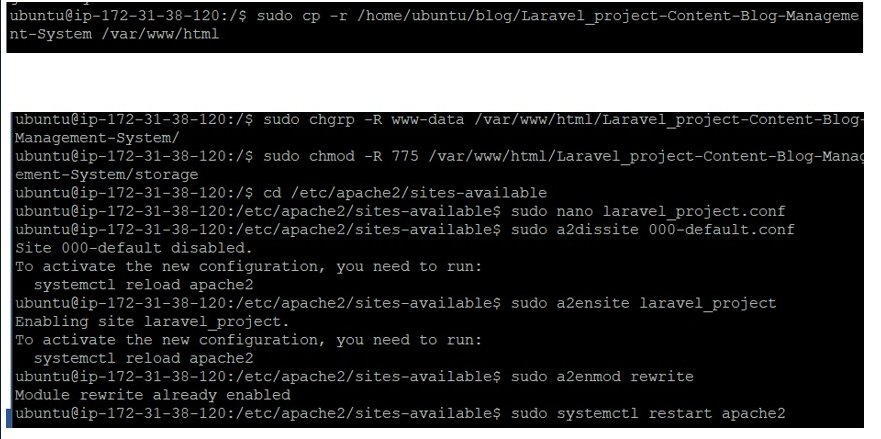


Figure 29: Migrate all tables to database

# **Deployment**

To start Laravel Project, run the following commands

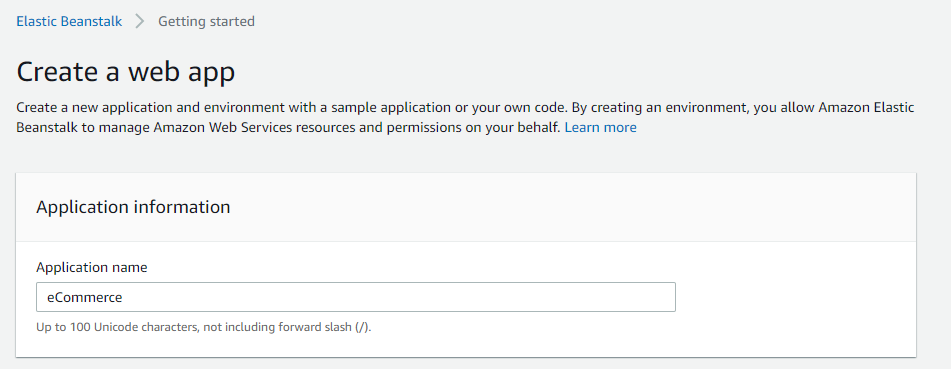


# **URL**

[**http://ec2-13-231-241-128.ap-northeast-1.compute.amazonaws.com/**](http://ec2-13-231-241-128.ap-northeast-1.compute.amazonaws.com/)

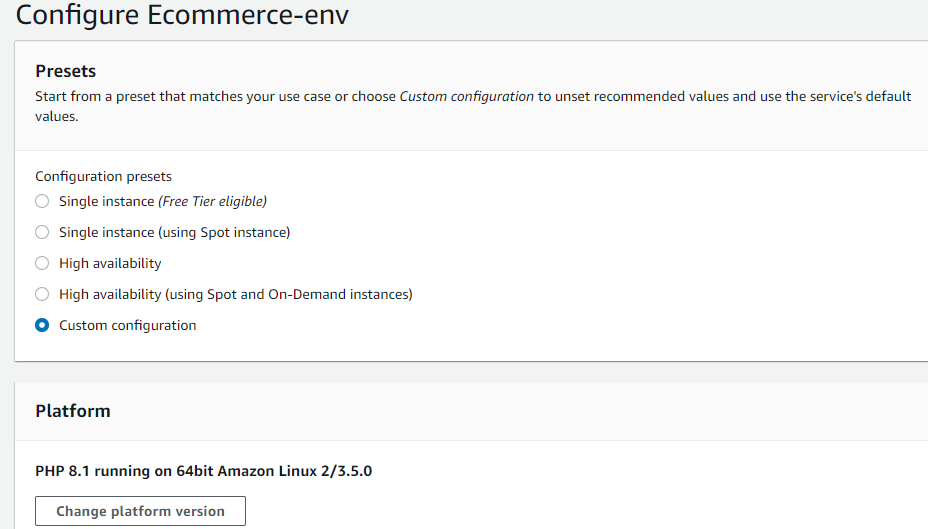
# **Part 2**

# **Create Elastic Beanstalk instance**

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**Graphical user interface, application

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**Graphical user interface, text, application

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**Graphical user interface, application

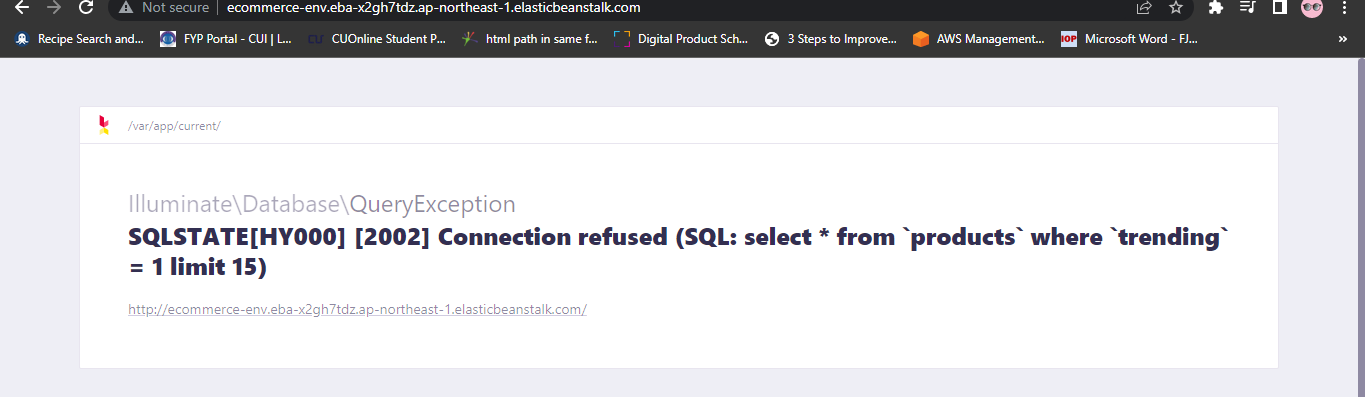
Description automatically generated**

**Graphical user interface, text

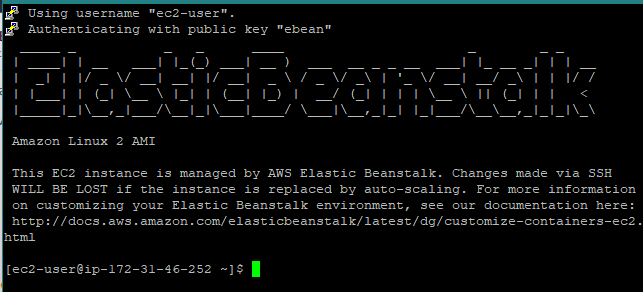
Description automatically generated**

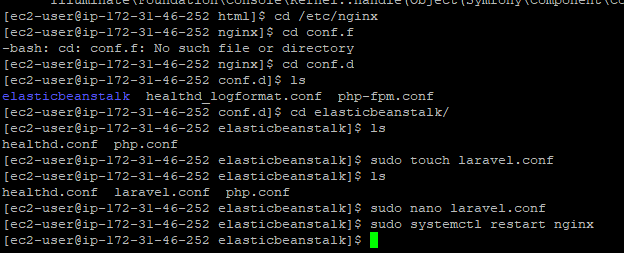
**Graphical user interface, text, application, email

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# **Connect to Elastic Beans**

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# **Create DB**

Graphical user interface, application

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A screenshot of a computer

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**Graphical user interface, text, application, email

Description automatically generated**

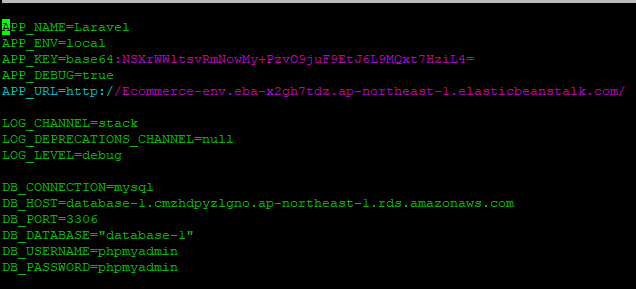
**Graphical user interface, text, application

Description automatically generated**

# **Configure .env file**

**Text

Description automatically generated**

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# **URL – part 02**

[**http://ecommerce-env.eba-x2gh7tdz.ap-northeast-1.elasticbeanstalk.com**](http://ecommerce-env.eba-x2gh7tdz.ap-northeast-1.elasticbeanstalk.com/n)