LEMP project(nginx.mysql,php)

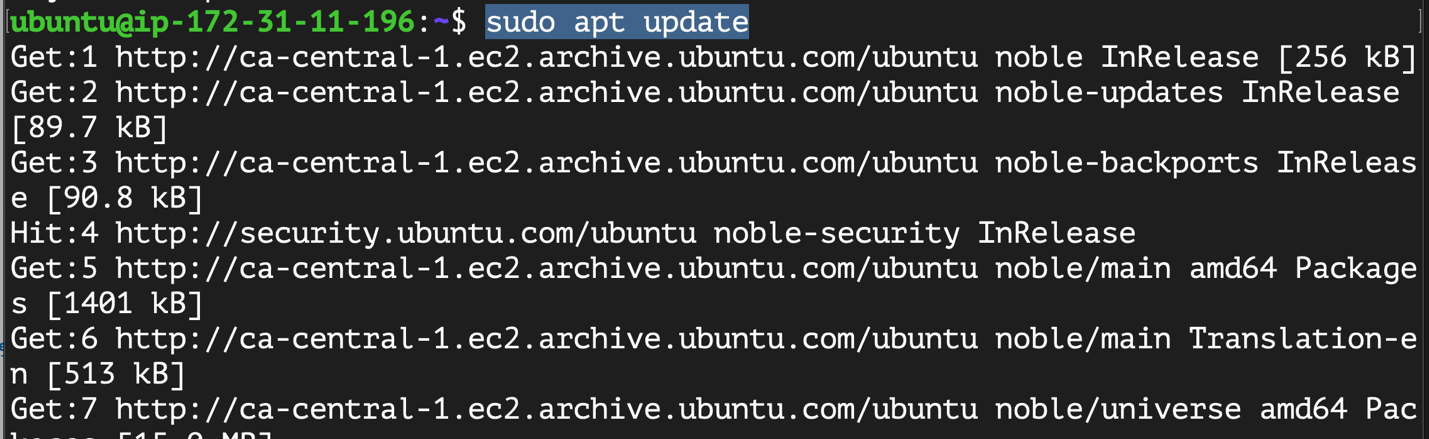
1. Create ec2 instance
2. ssh to instance

$ ssh -i key ubuntu@ip

Key permission ------🡪 400

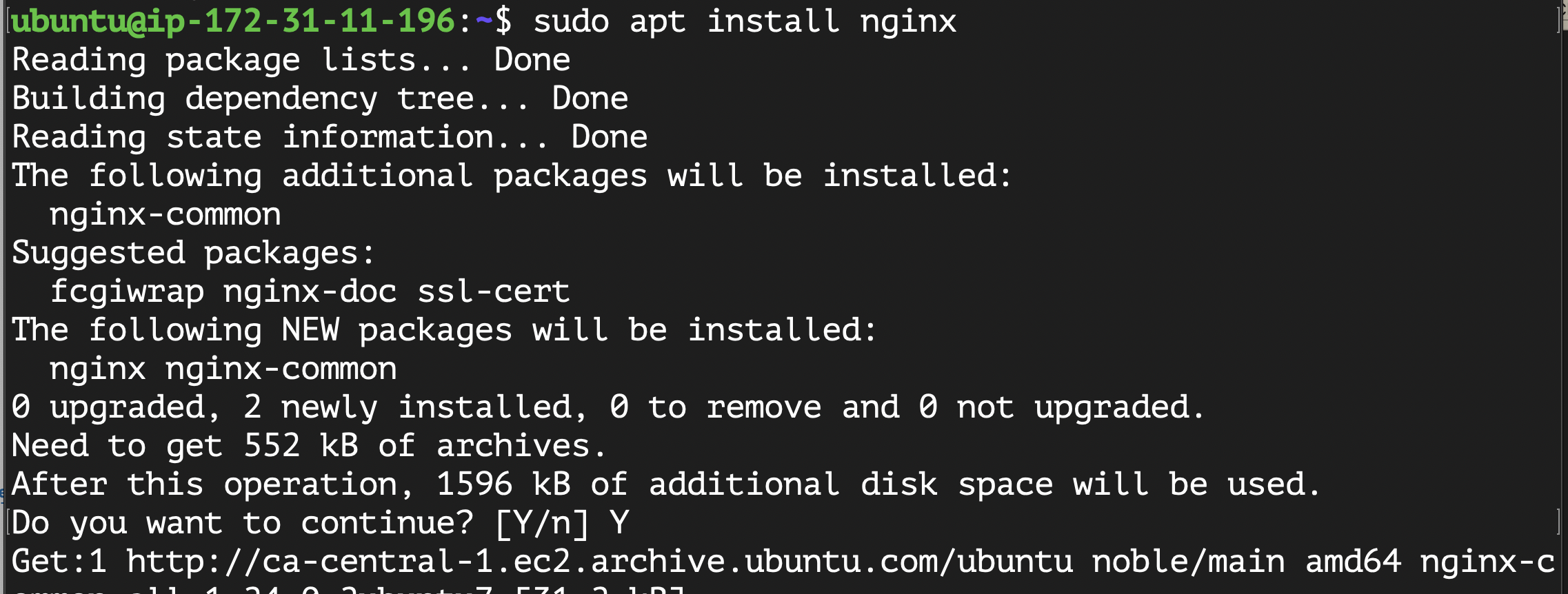
1. update package manager

$ sudo apt update



1. Install nginx

$ sudo apt install nginx



1. Ensure that nginx is up and running

$ sudo systemctl status nginx

A screen shot of a computer

Description automatically generated

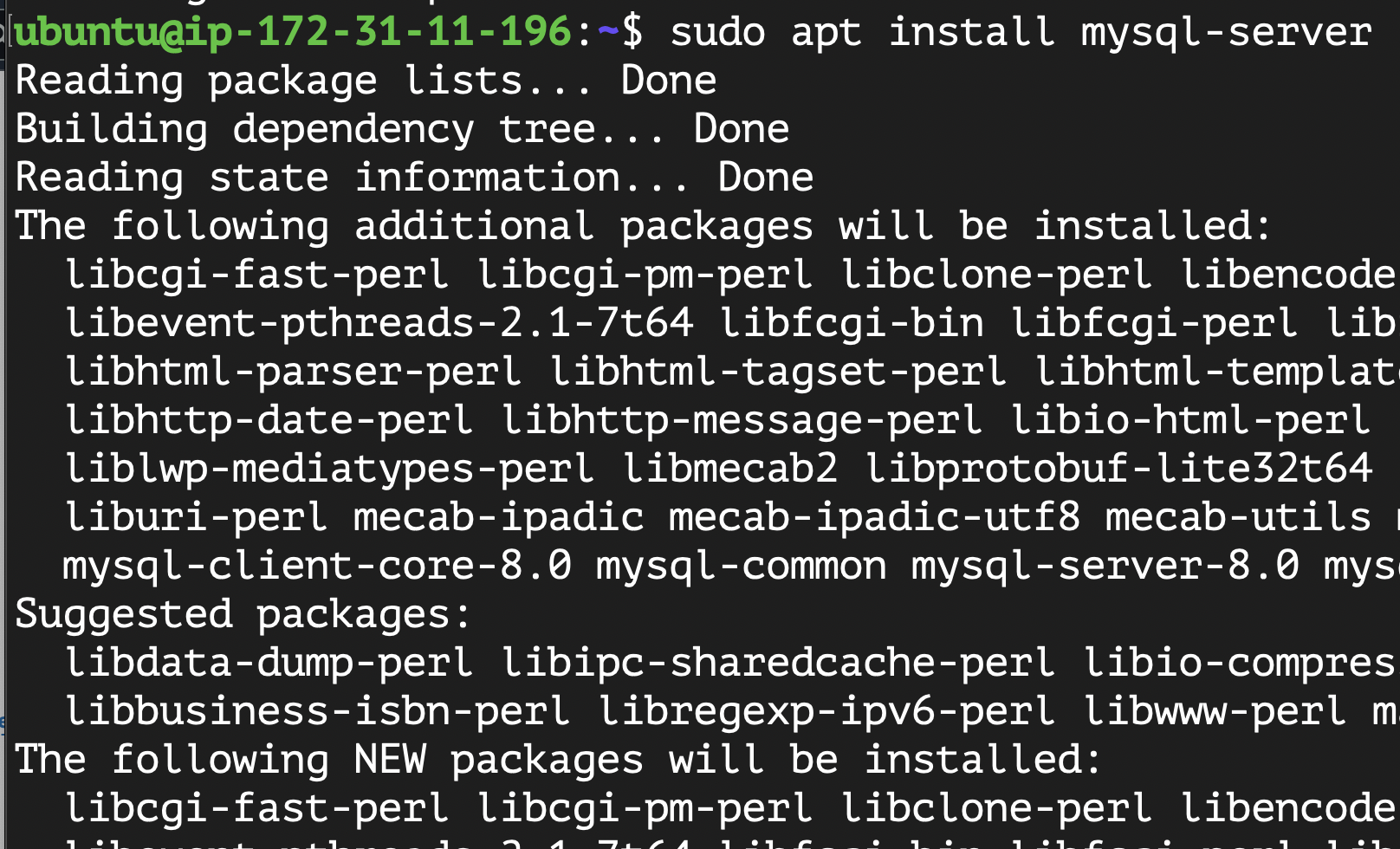
Access nginx --------🡪

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1. Install mysql

$ sudo apt install mysql-server



1. Install php-fpm and php-mysql

$ sudo apt install php-fpm php-mysql

A screen shot of a computer

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1. How to change password for root user on mysql
2. First after installation mysql run

$ sudo mysql\_secure\_installation

Remove defaults and secure access to mysql

1. Change root password

mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql\_native\_password BY 'PassWord.1';

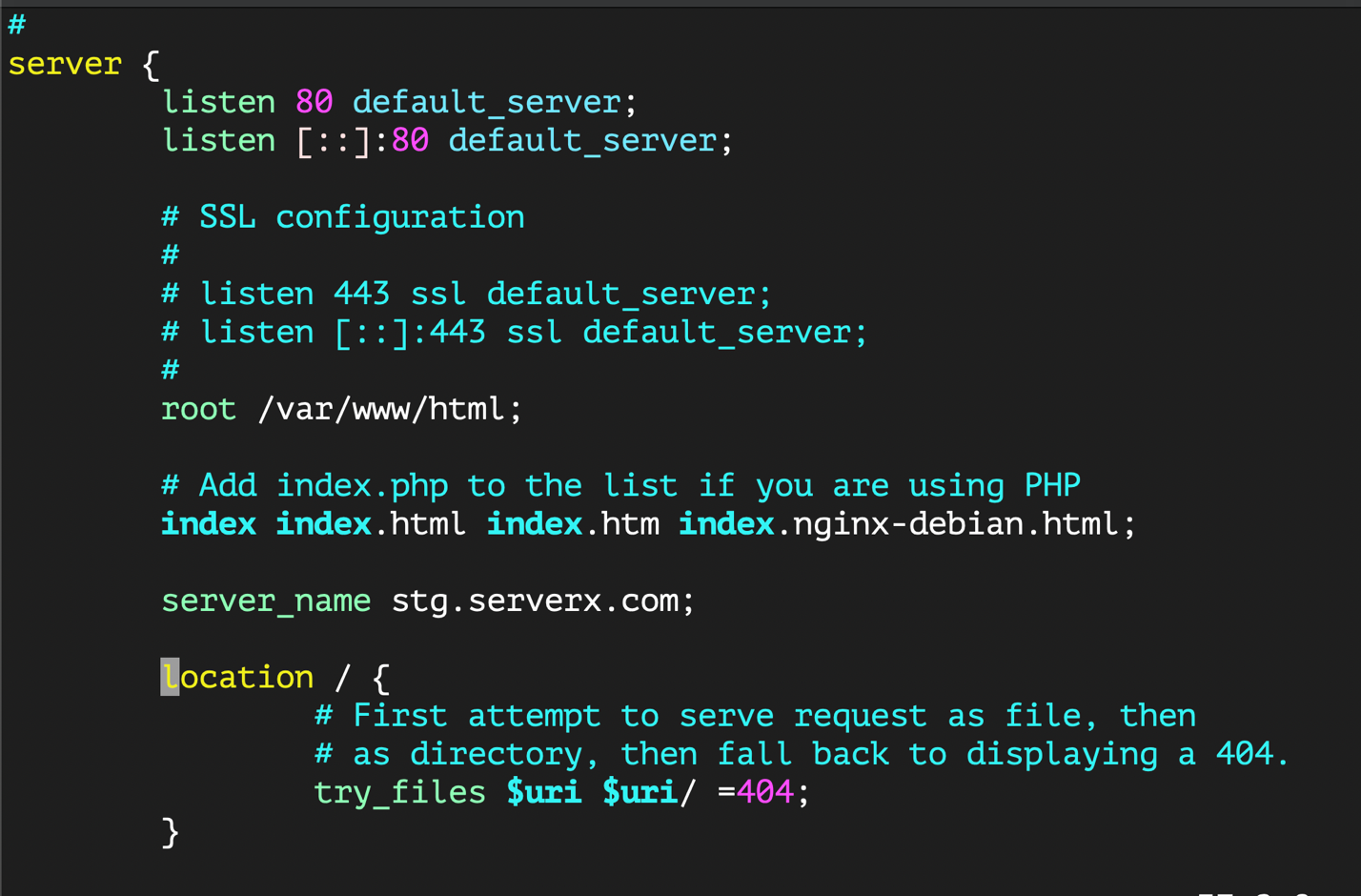
ALTER USER 'user\_name'@'ip\_of\_sqlserver' IDENTIFIED WITH mysql\_native\_password 'password';

1. Create root directory for your web server

$ sudo mkdir /var/www/LEMP\_Project

$ sudo chown $USER:$USER -R /var/www/LEMP\_Project

1. Skip step 9
2. Go to /etc/nginx/sites-enabled/default



A screen shot of a computer code

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1. Test ngnix configuration

$ sudo nginx -t

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1. Go to /var/www/html create file called index.html and edit it then restart nginx
2. $ sudo systemctl restart nginx

A computer screen with green and blue text

Description automatically generated

A green and white sign

Description automatically generated

1. Create database

Create DataBase testing\_db;

Show Databases;

CREATE USER 'test\_user'@'%' IDENTIFIED WITH mysql\_native\_password BY 'Password';

GRANT ALL db\_name.\* to user@sql\_server;

GRANT ALL on testing\_db.\* TO 'test\_user'@'%';

A screenshot of a computer program

Description automatically generated

CREATE TABLE testing\_db.todo\_list (

item\_id INT AUTO\_INCREMENT,

content VARCHAR(255),

PRIMARY KEY(item\_id)

);

**INSERT INTO testing\_db.todo\_list (content) VALUES ("Create simple devops project");**

**INSERT INTO testing\_db.todo\_list (content) VALUES ("Visit my reletives");**

**INSERT INTO testing\_db.todo\_list (content) VALUES ("Go to GYM");**

**INSERT INTO testing\_db.todo\_list (content) VALUES ("Playing tennis");**

**A screenshot of a computer program

Description automatically generated**

Then exit

1. Go to /var/www/html create file called todo\_lists.php

<?php

$user = "example\_user";

$password = "password";

$database = "example\_database";

$table = "todo\_list";

try {

$db = new PDO("mysql:host=localhost;dbname=$database", $user, $password);

echo "<h2>TODO</h2><ol>";

foreach($db->query("SELECT content FROM $table") as $row) {

echo "<li>" . $row['content'] . "</li>";

}

echo "</ol>";

} catch (PDOException $e) {

print "Error!: " . $e->getMessage() . "<br/>";

die();

}

A black and white screen with white text

Description automatically generated

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