ICT-171

# ASSIGNMENT-2 CLOUD PROJECT

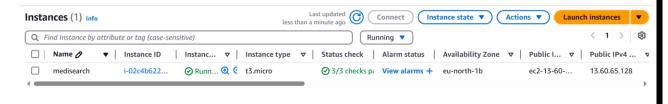
IP: 13.60.65.128

DNS: <a href="http://www.medisearch.online">http://www.medisearch.online</a>

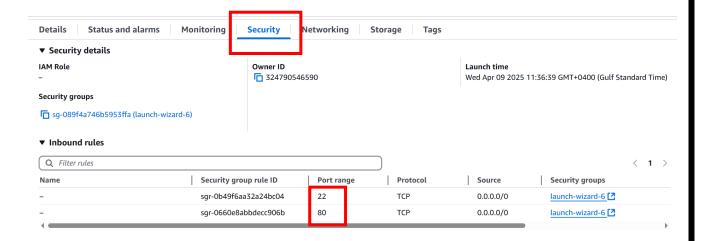
Jainil Piyushkumar Patel STUDENT ID: 35480908

#### SETTING UP A WEB-SERVER:

1. Launch an instance

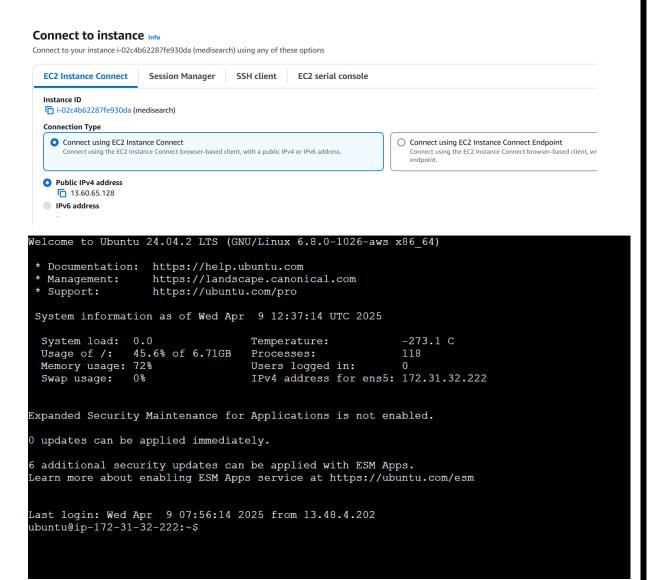


2. Enable port 22 and 80 in edit inbound rule in security option



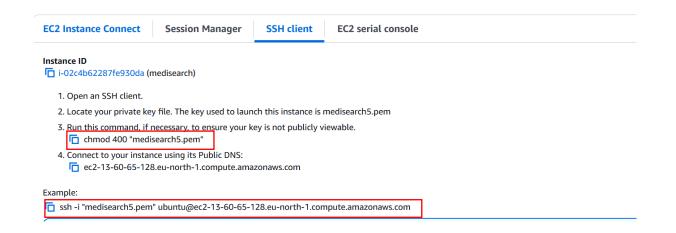
3. Connect instance to ubuntu terminal





Our instance in connected with terminal

- The second way of connecting
- 1) copy chmod 400 and ssh and past it on ubuntu terminal



2) and now open terminal and past it.

```
jainil@jainil-virtualbox:~$ cd Downloads
jainil@jainil-virtualbox:~/Downloads$ chmod 400 "ICT.pem"
jainil@jainil-virtualbox:~/Downloads$ ssh -1 "medisearch5.pem" ubuntu@ec2-13-60
-65-128.eu-north-1.compute.amazonaws.com
hostkeys_find_by_key_hostfile: hostkeys_foreach failed for /home/jainil/.ssh/kn
own_hosts: Permission denied
The authenticity of host 'ec2-13-60-65-128.eu-north-1.compute.amazonaws.com (13
.60.65.128)' can't be established.
ED25519 key fingerprint is SHA256:mKf0xbN0uWRbPE3vq5GUJ7/YlD9Yw4TIQt775VeTHkY.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
```

3) and now our instance is conncted with ubuntu

```
Memory usage: 73%

Swap usage: 0%

IPv4 address for ens5: 172.31.32.

Expanded Security Maintenance for Applications is not enabled.

updates can be applied immediately.

additional security updates can be applied with ESM Apps.

Learn more about enabling ESM Apps service at https://ubuntu.com/es

Last login: Wed Apr 9 12:37:15 2025 from 13.48.4.203

ubuntu@ip-172-31-32-222:~$
```

> And now, we download Apache in our ubuntu:

Sudo apt install apache2

Sudo apt -get update

Sudo su

Sudo systemctl reload apache2

Sudo systemctl restart apache2

# **≻**Setting up WordPress:

 We need to update our repository and upgrade our packages before we begin.

```
sudo apt update && sudo apt upgrade -y
```

Install Apache server and the necessary dependency.

```
sudo apt install apache2 ghostscript libapache2-mod-
php mysql-server php php-bcmath php-curl php-imagick
php-intl php-json php-mbstring php-mysql php-xml php-
zip -y
```

Make the directory where we'll host the WordPress files

```
sudo mkdir -p /var/www/html
```

Change the directory's ownership to the user www-data

```
sudo chown www-data: /var/www/html
```

 And then curl the zip files from the official wordpress page and unzip them into the directory we created.

```
curl https://wordpress.org/latest.tar.gz | sudo -u
www-data tar zx -C /var/www/html
```

```
6 additional security updates can be applied with ESM Apps.

Learn more about enabling ESM Apps service at https://ubuntu.com/esm

Last login: Wed Apr 9 13:58:15 2025 from 13.48.4.202

ubuntu@ip-172-31-32-222:~$ cd /var/www/html

ubuntu@ip-172-31-32-222:/var/www/html$ ls

index.html wordpress

ubuntu@ip-172-31-32-222:/var/www/html$
```

Our wordpress is installed successfully



Now we can set up our account



Now we can login into our Wordpress

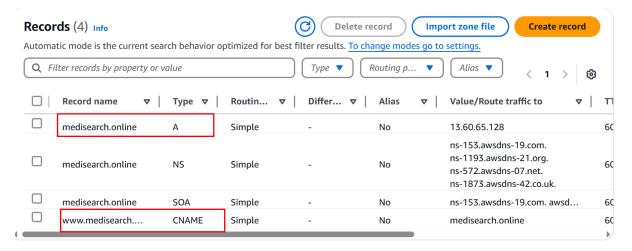
# **➤ Linking with DNS**

#### 1) We create hosting network using route 53

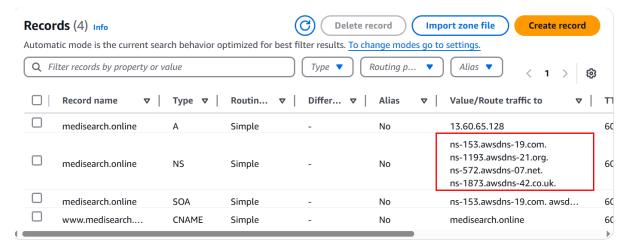
#### Create hosted zone Info

<b>Hosted zone configuration</b> A hosted zone is a container that holds information about how you want to route traffic for a domain, such as example.c	com, and its subdomains.
Domain name Info This is the name of the domain that you want to route traffic for.	
example.com	<u> </u>
Valid characters: a-z, 0-9,!"#\$%&'()*+,-/:;<=>?@[\]^_`{ }.~	

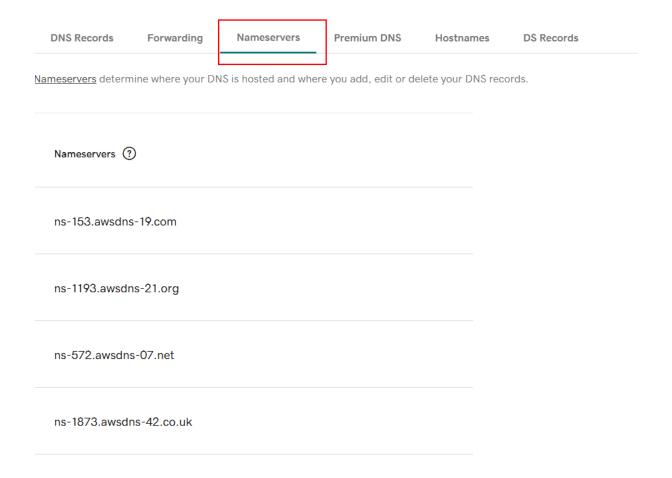
#### 2) Now we create an "A" record and "CNAME" record



#### 3) Now we create an nameserver



4) Now we copy these nameservers and past into in godaddy.



## > SSL/TLS Documentation:

#### 1). First we download certbot

sudo snap install --classic certbot

2).

sudo ln -s /snap/bin/certbot /usr/bin/certbot

sudo certbot --apache

4).

sudo certbot certonly --apache

```
ubuntu@ip-172-31-32-222:-$ sudo snap install --classic certbot
certbot 4.0.0 from Certbot Project (certbot-eff√) installed
ubuntu@ip-172-31-32-222:-$ sudo in -s /snap/bin/certbot /usr/bin/certbot
ubuntu@ip-172-31-32-222:-$ sudo in -s /snap/bin/certbot /usr/bin/certbot
ubuntu@ip-172-31-32-222:-$ sudo certbot --apache
saving debug log to /var/log/letsencrypt/letsencrypt.log
Enter email address or hit Enter to akin
(Enter 'c' to cancel): jainilpatel9494@gmail.com

Please read the Terms of Service at:
https://letsencrypt.org/documents/LE-SA-v1.5-February-24-2025.pdf
You must agree in order to register with the ACME server. Do you agree?

(Y)es/(N)o: yes

Would you be willing, once your first certificate is successfully issued, to
share your email address with the Electronic Frontier Foundation, a founding
partner of the Let's Encrypt project and the non-profit organization that
develops Certbot? We'd like to send you email about our work encrypting the web,
EFF news, campaigns, and ways to support digital freedom.

(Y)es/(N)o: y
Account registered.
Please enter the domain name(s) you would like on your certificate (comma and/or
space separated) (Enter 'c' to cancel): medisearch.online
Requesting a certificate for medisearch.online
```

### **End of documentation**