

## INFOTRIX TASKS WEEK-1

### Cloud(AWS) Week 1 Task:

#### ❖ Prerequisites:

- Create your free-tier AWS account

#### ❖ Task: Deploy application in monolithic and microservices architecture

#### ❖ Description:

- For monolithic : 1 EC2 instance, deploy wordpress and MYSQL on the same instances
- For microservices: 2 EC2 instance, 1 for wordpress and 1 for MYSQL
- Configure the necessary security group for the instances
- EC2 instance type: t2-micro, AMI: ubuntu-\*
- ❖ Create a welcome page in wordpress that will be the homepage

### For Monolithic


#### 1.Created EC2 Instance

Instances (1) Info								
<input type="text" value="Find Instance by attribute or tag (case-sensitive)"/>								
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
<input type="checkbox"/>	Infotrix_task1	i-052496b1b7efeb713	Running	t2.micro	-	No alarms	us-east-1d	ec2-54-81-

Apache2 Ubuntu Default Page: It works

Not secure | 54.81.161.220

Incognito



# Apache2 Default Page

## Ubuntu

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

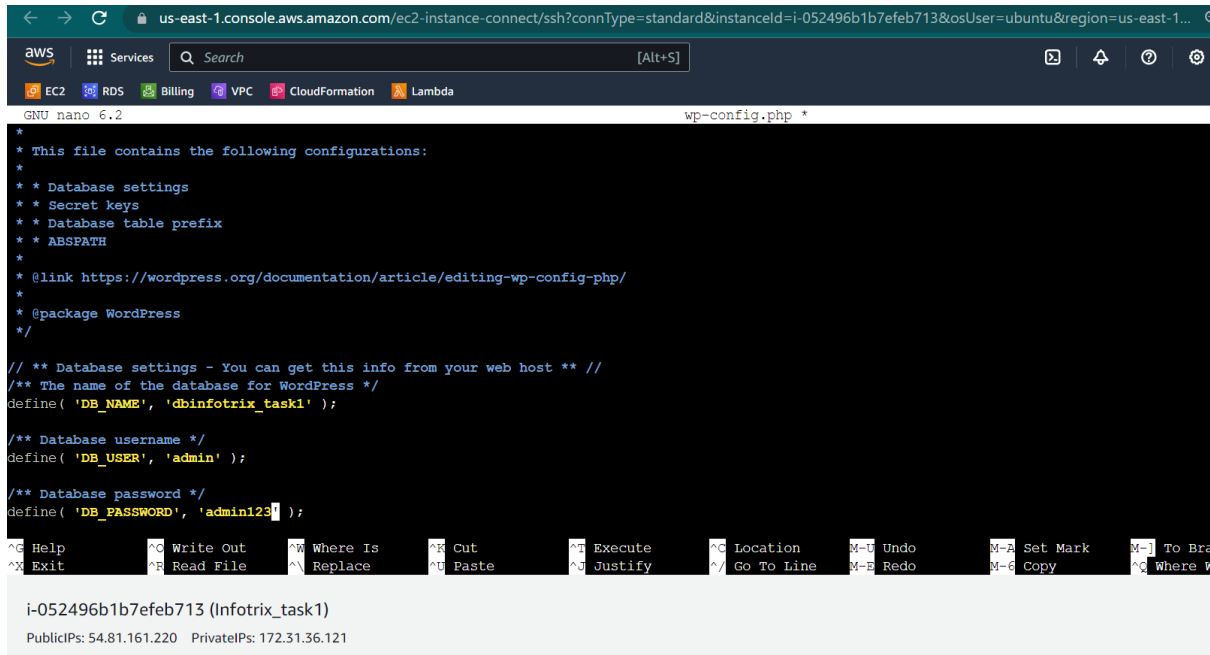
### Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/  
|-- apache2.conf  
|   |-- ports.conf  
|-- mods-enabled  
|   |-- *.load  
|   |-- *.conf  
|-- conf-enabled  
|   |-- *.conf
```

Edited DB authentication:



```
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-052496b1b7efeb713&osUser=ubuntu&region=us-east-1...
AWS Services Search [Alt+S]
EC2 RDS Billing VPC CloudFormation Lambda
GNU nano 6.2 wp-config.php *
* This file contains the following configurations:
*
* * Database settings
* * Secret keys
* * Database table prefix
* * ABSPATH
*
* @link https://wordpress.org/documentation/article/editing-wp-config-php/
*
* @package WordPress
*/

// ** Database settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'dbinfotrix_task1' );

/** Database username */
define( 'DB_USER', 'admin' );

/** Database password */
define( 'DB_PASSWORD', 'admin123' );

^G Help      ^C Write Out  ^W Where Is   ^K Cut        ^G Execute    ^C Location   M-U Undo      M-A Set Mark   M-I To Bra
^X Exit      ^R Read File  ^N Replace    ^U Paste      ^V Justify    ^_ Go To Line  M-E Redo      M-G Copy      ^C Where W
i-052496b1b7efeb713 (Infotrix_task1)
PublicIPs: 54.81.161.220 PrivateIPs: 172.31.36.121
```

History:

ubuntu@ip-172-31-36-121:/var/www/html\$ history

- 1 sudo apt update
- 2 sudo apt install mysql-server
- 3 sudo apt install mysql\_server
- 4 sudo apt install mysql-server
- 5 sudo mysql\_secure\_installation
- 6 sudo apt install apache2 php libapache2-mod-php php-mysql
- 7 wget -c http://wordpress.org/latest.tar.gz
- 8 tar -xzf latest.tar.gz
- 9 sudo cp -r wordpress/\* /var/www/html/
- 10 sudo cp -r wordpress/\* /var/www/html/
- 11 ls
- 12 sudo cd -r wordpress/
- 13 sudo cp -r wordpress/
- 14 ls

```

15 sudo cp -r wordpress/* /var/www/html/
16 ls
17 ls -a
18 cd ~
19 sudo cp -r /home/ubuntu/wordpress/* /var/www/html/
20 sudo chown -R www-data:www-data /var/www/html/
21 cd /var/www/html/
22 cp wp-config-sample.php wp-config.php
23 nano wp-config.php
24 ls
25 cp wp-config-sample.php wp-config.php
26 sudo cp wp-config-sample.php wp-config.php
27 sudo nano wp-config.php
28 history

```

For microservices:

Created two new instances for MySQL and WP:

<input type="checkbox"/>	ec2_mysql	i-00c3e52547932fca4	<span>Running</span>		t2.micro	Initializing	No alarms	+	us-east-1d	ec2-34-230
<input checked="" type="checkbox"/>	ec2_wp	i-04a81a696db74ca7c	<span>Running</span>		t2.micro	-	No alarms	+	us-east-1d	ec2-54-83-

Installed MySQL in ec2\_mysql instance

```

ubuntu@ip-172-31-40-220:~$ sudo mysql -V
mysql Ver 8.0.35-0ubuntu0.22.04.1 for Linux on x86_64 ((Ubuntu))
ubuntu@ip-172-31-40-220:~$

```

```

ubuntu@ip-172-31-40-220:~$ history
 1  sudo apt update
 2  ls
 3  sudo apt install mysql-sever
 4  sudo apt install mysql-server
 5  sudo mysql_secure_installation
 6  history

```

Installed WordPress in ec2\_wp instance

```
ubuntu@ip-172-31-37-218:~$ ls
latest.tar.gz  wordpress
ubuntu@ip-172-31-37-218:~$
```

ubuntu@ip-172-31-37-218:~\$ history

- 1 sudo apt update
- 2 sudo apt install apache2 php libapache2-mod-php php-mysql
- 5 wget -c http://wordpress.org/latest.tar.gz
- 6 tar -xzf latest.tar.gz
- 7 grep wp\_version wp-includes/version.php
- 8 ls
- 9 history

```
/** Database username */
define( 'DB_USER', 'admin2' );

/** Database password */
define( 'DB_PASSWORD', 'admin2@123' );

/** Database hostname */
define( 'DB_HOST', '54.83.160.105' );

/** Database charset to use in creating database tables. */
define( 'DB_CHARSET', 'utf8' );

/** The database collate type. Don't change this if in doubt. */
define( 'DB_COLLATE', '' );

/**#@+
 * Authentication unique keys and salts.
 *
 * Change these to different unique phrases! You can generate these using
 * the {@link https://api.wordpress.org/secret-key/1.1/salt/ WordPress.org secret-key service}.
 */
```

# Welcome to My Website