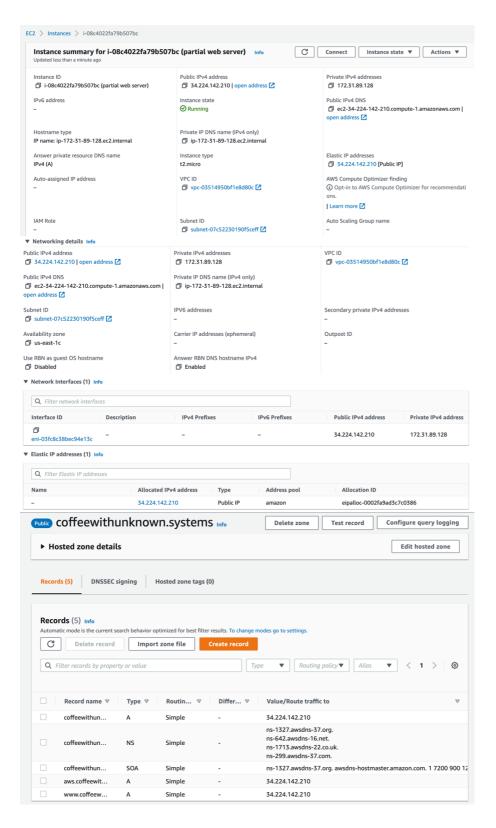
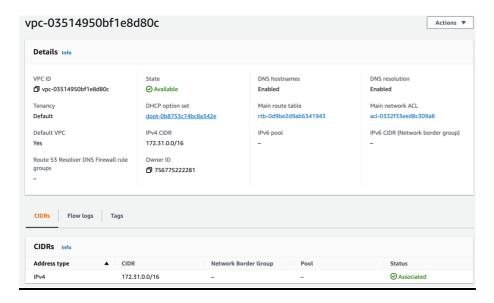
Task: Two Websites on a Single AWS Server:

Login Credentials: aws % ssh -i "wordpresspair.pem" ubuntu@ec2-34-224-142-210.compute-1.amazonaws.com



VPC details:



Steps while configuring two websites in a AWS server.

My-Sql on Ubuntu:

1. <u>Creating user Sammy:</u>

- sudo mysql
- mysql -u root -p
 - o CREATE USER 'sammy'@'localhost' IDENTIFIED BY 'password';
 - ALTER USER 'sammy'@'localhost' IDENTIFIED WITH mysql_native_password BY 'password';
- GRANT ALL PRIVILEGES ON *.* TO 'sammy'@'localhost' WITH GRANT OPTION;
- exit;

2. Testing User Sammy:

- systemctl status mysql.service
- sudo mysqladmin -p -u sammy version

Installing Apache 2:

- sudo apt update
- sudo apt install apache2
- sudo ufw app list
- sudo ufw allow "Apache Full"

Installing PHP:

- sudo apt install php libapache2-mod-php php-mysql
- sudo nano /etc/apache2/mods-enabled/dir.conf

```
o <IfModule mod_dir.c>
DirectoryIndex index.php index.html index.cgi index.pl index.xhtml index.htm</IfModule>
```

- sudo systemetl restart apache2
- sudo systemetl status apache2
- apt show php-cli
- sudo nano /var/www/html/info.php
 - o <?php

phpinfo();

WordPress Dependencies:

sudo apt update

```
php7.4-bcmath \
php7.4-curl \
php7.4-imagick \
php7.4-intl \
php7.4-json \
php7.4-mbstring \
```

- php7.4-mysql \ php7.4-xml \
- php7.4-zip
- mysql -u root -p (password)
 - CREATE USER 'wordpressuser'@'%' IDENTIFIED WITH mysql_native_password BY 'password';
 - o GRANT ALL ON wordpress.* TO 'wordpressuser'@'%';
 - o FLUSH PRIVILEGES;
 - o EXIT;
- sudo apt update

sudo mysql

- sudo apt install php-curl php-gd php-mbstring php-xml php-xmlrpc php-soap php-intl php-zip
- sudo systemetl restart apache2
- sudo nano /etc/apache2/sites-available/wordpress.conf

```
<VirtualHost *:80>
. . .

<Directory /var/www/wordpress/>
```

```
AllowOverride All

</Directory>
...

</VirtualHost>
```

- o sudo a2enmod rewrite
- o sudo apache2ctl configtest
- sudo systemctl restart apache2

Wordpress:

- cd /tmp
- curl -O https://wordpress.org/latest.tar.gz
- tar xzvf latest.tar.gz
- touch /tmp/wordpress/.htaccess
- cp /tmp/wordpress/wp-config-sample.php /tmp/wordpress/wp-config.php
- mkdir /tmp/wordpress/wp-content/upgrade
- sudo cp -a /tmp/wordpress/. /var/www/wordpress

Configure Wordpress Directory:

- sudo chown -R www-data:www-data/var/www/wordpress
- sudo find /var/www/wordpress/ -type d -exec chmod 750 {} \;
- sudo find /var/www/wordpress/ -type f -exec chmod 640 {} \;
- curl -s https://api.wordpress.org/secret-key/1.1/salt/
- sudo nano /var/www/wordpress/wp-config.php

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

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

/** Database password */
define( 'DB_DASWORD', 'password');

/** Database hostname */
define( 'DB_DASSWORD', 'password');

/** 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).

*
    *You can change these at any point in time to invalidate all existing cookies.

* This will force all users to have to log in again.

*
    *@since 2.6.0

*//
/*
define( 'AUTH_KEY',
    define( 'AUTH_KEY', 'put your unique phrase here');
define( 'NONCE_KEY', 'put your unique phrase here');
define( 'NONCE_SALT', 'put your unique phrase here');
define( 'NONCE_SALT', 'put your unique phrase here');
define( 'NONCE_SALT', 'put your unique phrase here');
define( 'NONCE_KEY', 'values COPIED FROM THE COMMAND LINE');
define( 'NONCE_KEY, 'values COPIED FROM THE COMMAND LINE');
define( 'AUTH_SALT', 'values COPIED FROM THE COMMAND LINE');
define( 'AUTH_SALT', 'values COPIED FROM THE COMMAND LINE');
define( 'NONCE_KEX', 'values COPIED FROM THE COMMAND LINE');
define( 'NONCE_SALT', 'values COPIED FROM THE COMMAND LINE');
define( 'NONCE_SALT', 'values COPIED FROM THE COMMAND LINE');
define( 'NONCE_FALT', 'values COPIED FROM THE COMMAND LINE');
define( 'NONCE_FALT', 'values COPIED FROM THE COMMAND LINE');
define( 'NONCE_FALT', 'values COPIED FROM THE COMMAND LINE');
```

Data Base Error::

Soln:

- cat /etc/apache2/sites-available/000-default.conf
- nano /etc/apache2/sites-available/000-default.conf
 - change DocumentRoot /var/www/wordpress
- systemctl restart apache2
- sudo nano /var/www/wordpress/wp-config.php

```
// ** Database settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'wordpress );
/** Database username */
define( 'DB_USER', 'wordpressusere' );
/** Database hostname */
define( 'DB_HOST', 'localhost' );
  ** Database charset to use in creating database tables. */
lefine( 'DB_CHARSET', 'utf8' );
/** The database collate type. Don't change this if in doubt. */
define( 'DB_COLLATE', '' );
                                                     'VALUES COPIED FROM THE
```

- Sudo mysql
- Show databases; (database wordpress missing)
- Create DATABASE wordpress;
- systemctl restart apache2

Code History:

```
mysql --version
```

- apt update
- sudo apt install php7.4-curl php7.4-gd php7.4-mbstring php7.4-xml php7.4-xmlrpc php7.4-soap php7.4-intl php7.4-zip php7.4mysql
- 5 sudo apt install apache2
- sudo ufw app list
- sudo ufw app info "Apache Full"
- sudo ufw allow "Apache Full"
- sudo apt install mysql-server
- 10 sudo systemctl start mysql.service
- 11 sudo mysql
- 12 mysql -u root -p
- 13 sudo mysql
- mysql -u root -p

```
mysql -u sammy -p
15
     systemctl status mysql.service
17
     sudo mysqladmin -p -u sammy version
    CREATE DATABASE db
18
19
     sudo mysql
20
     sudo mysql -u root -p
21
     sudo ufw allow "Apache Full"
22
     sudo apt install php libapache2-mod-php php-mysql
23
     sudo nano /etc/apache2/mods-enabled/dir.conf
24
     sudo systemctl restart apache2
25
     sudo systemctl status apache2
26
     apt search php- | less
27
     apt\ show\ package_name
28
     apt show php-cli
29
     sudo apt install php-cli
30
     sudo apt install package1 package2 ...
31
     sudo systemctl status apache2
32
     sudo systemctl restart apache2
33
     sudo apt install libapache2-mod-php
34
     sudo nano /var/www/html/info.php
35
36
     mysql -u root -p
37
     sudo apt update
38
     sudo apt install php-curl php-gd php-mbstring php-xml php-xmlrpc php-soap php-intl php-zip
39
     php -v
40
     sudo systemctl restart apache2
41
     sudo nano /etc/apache2/sites-available/wordpress.conf
42
     sudo a2enmod rewrite
43
     sudo systemctl restart apache2
44
     sudo a2enmod rewrite
45
     sudo apache2ctl configtest
46
     sudo systemctl restart apache2
47
     cd /tmp
     curl -O https://wordpress.org/latest.tar.gz
48
49
     tar xzvf latest.tar.gz
50
     touch /tmp/wordpress/.htaccess
51
     cp /tmp/wordpress/wp-config-sample.php /tmp/wordpress/wp-config.php
52
     mkdir /tmp/wordpress/wp-content/upgrade
53
     sudo cp -a /tmp/wordpress/. /var/www/wordpress
54
     sudo chown -R www-data:www-data/var/www/wordpress
55
     sudo find /var/www/wordpress/ -type d -exec chmod 750 {} \;
56
     sudo find /var/www/wordpress/ -type f -exec chmod 640 {} \;
57
     curl -s https://api.wordpress.org/secret-key/1.1/salt/
58
     sudo nano /var/www/wordpress/wp-config.php
59
     systemctl start apache2
60
     cd /var/www
61
     1s
62
     cd wordpress/
63
64
     cp wp-config-sample.php wp-config.php
65
66
     history
67
     cat /etc/apache2/sites-available/000-default.conf
68
69
     nano /etc/apache2/sites-available/000-default.conf
     systemctl restart apache2
70
71
     □sudo nano /var/www/wordpress/wp-config.php
72
     sudo nano /var/www/wordpress/wp-config.php
73
     systemctl restart apache2
74
     sudo mysql
75
     systemctl restart apache2
76
     history
     cat /etc/apache2/sites-available/000-default.conf
77
78
     cd ..
79
80
     sudo cp -R wordpress wordpress2
81
82
     sudo mkdir -p /var/www/example.com/public_html
83
     sudo mkdir -p /var/www/test.com/public_html
84
85
     mysql -u root -p
86
87
     cd wordpress
88
     cd ..
```

cd wordpress2

```
90 ls
```

- 91 nano wp-config.php
- 92 cd/etc/apache2/sites-available
- 93 ls
- 94 cp wordpress.conf wordpress2.conf
- 95 ls
- 96 nano wordpress2.conf
- 97 systemctl restart apache2
- 98 nano wordpress2.conf
- 99 systemctl restart apache2
- 100 sudo a2ensite wordpress2.conf
- 101 systemctl restart apache2
- 102 systemctl restart apache2.service
- 103 nano wordpress2.conf
- 104 ls
- 105 cat 000-default.conf
- 106 ls
- 107 sudo cp 000-default.conf wordpress3.conf
- 108 ls
- 109 sudo rm -R wordpress2.conf
- 110 ls
- 111 sudo nano wordpress3.conf
- 112 sudo systemetl restart apache2
- 113 sudo systemctl restart apache2.service
- 114 ls
- 115 sudo mv wordpress3.conf secondsite.conf
- 116 ls
- 117 a2ensite wordpress.conf
- 118 systemctl restart apache2
- 119 a2desite secondsite.conf
- 120 a2dissite secondsite.conf
- 121 a2ensite wordpress.conf
- 122 systemctl restart apache2
- 123 journalctl -f
- 124 ls
- 125 cat wordpress.conf
- 126 sudo a2dissite wordpress.conf
- 127 sudo systemctl restart apache2.service
- 128 ls
- 129 cd 000-default.conf
- 130 cat 000-default.conf
- 131 sudo nano 000-default.conf
- 132 sudo systemctl restart apache2
- 133 sudo nano 000-default.conf
- 134 sudo systemctl restart apache2135 sudo nano 000-default.conf
- 136 sudo systemetl restart apache2
- 136 sudo systemeti restart apach 137 sudo nano 000-default.conf
- 138 sudo systemctl restart apache2
- 139 cd /var/html
- 140 cd /var/www/html
- 141 ls
- 142 cd..
- 143 ls
- 144 cd wordpress
- 145 ls
- 146 cd wp-config.php
- 147 cd wpadmin
- 148 cd wp-admin
- 149 ls
- 150 cd..
- 151 nano wp-config.php
- 152 clear
- 153 cd /var/www/html
- 154 ls
- 155 cd..
- 156 ls
- 157 cd wordpress2
- 158 ls
- 159 cd/etc/sites-available
- 160 cd/etc
- 161 ls
- 162 cd php
- 163 ls
- 164 cd..

```
165 cd/apache2
```

- 166 sudo nano /etc/apache2/sites-available/wordpress.conf
- 167 sudo nano /etc/apache2/sites-available
- 168 cd apache2
- 169 ls
- 170 cd sites-enabled/
- 171 ls
- 172 a2enmod wordpress2.conf
- 173 a2ensite wordpress2.conf
- 174 nano wordpress2.conf
- 175 a2ensite wordpress2.conf
- 176 nano wordpress2.conf
- 177 systemctl restart apache2
- 178 systemctl start apache2.service
- 179 sudo nano /var/www/wordpress/wp-config.php
- 180 sudo nano /var/www/wordpress2/wp-config.php
- 181 cd /var/www
- 182 ls
- 183 cd SecondSite/
- 184 ls
- 185 nano wp-config.php
- 186 systemetl status mysql.service
- 187 sudo mysqladmin -p -u atc1 version
- 188 apt install apache2
- 189 systemctl start apache2
- 190 journalctl -xe
- 191 cd /var/www
- 192 ls
- 193 mv -R wordpress2 SecondSite
- 194 mv wordpress2 SecondSite
- 195 ls
- 196 cd /etc/apache2
- 197 apache2ctl configtest
- 198 journalctl | tail
- 199 ls
- 200 nano ports.conf
- 201 cd sites-enabled/
- 202 ls
- 203 nano 000-default.conf
- 204 sudo mysql
- 205 sudo service apache2 reload
- 206 sudo service apache2 start
- 207 ls
- 208 en2dissite wordpress2.conf
- 209 an2dissite wordpress2.conf
- 210 a2dissite wordpress2.conf
- 211 systemctl reload apache2
- 212 apachectl-t
- 213 sudo a2enmod access_compat && sudo service apache2 restart
- 214 a2dissite wordpress2.conf
- 214 azdı.
- 216 ls
- 217 cd sites-available/
- 218 ls
- 219 nano wordpress2.conf
- 220 systemctl restart apache2
- 221 history
- 222 cd/etc/apache2
- 223 ls
- 224 sudo sites-enabled/
- 225 ls
- 226 cd sites-enabled/
- 227 ls
- 228 cat 000-default.conf
- 229 cp 000-default.conf wordpress2.conf
- 230 ls
- 231 nano wordpress2.conf
- 232 nano 000-default.conf
- 233 ls
- 234 e2ensite wordpress2.conf
- 235 a2ensite wordpress2.conf
- 236 sudo a2enmod rewrite
- $237 \ ls$
- 238 a2ensite wordpress2.conf
- 239 ls

```
240 ls -la
241 sudo ln -s /etc/apache2/sites-available/wordpress2.conf /etc/apache2/sites-enabled/wordpress2.conf
242 sudo cp -r wordpress2.conf /etc/apache2/sites-enabled/
243 ls
244 ls -la
245 cd..
246 cd sites-available/
247 sudo ln -s /etc/apache2/sites-available/wordpress2.conf /etc/apache2/sites-enabled/wordpress2.conf
248 ls
249 exit
250 cd /var/www
251 ls
252 cd SecondSite/
253 ls
254 cd..
255 ls
256 mv SecondSite/ wordpress2
257 ls
258 rm -R example.com/
259 cd test.com/
260 ls
261 cd..
262 rm -R test.com/
263 ls
264 cd wordpress2
265 ls
266 cat wp-config.php
267 cd..
268 cd wordpress
269 nano wp-config.php
```

Configuration File Details:

```
Incotein-17-01-89-128//etc/apache2/sites-available/ act demomeb2.conf

virtualions +188.

# The ServerName directive sets the request scheme, nontame and port that she server uses to identify isself. This is used when creating a redirection URLs. In the context of virtual host, the ServerName of specifies what hostmame must appear in the request's Host-header to protein which this virtual host. For the default virtual host (this file) this a match this virtual host. For the default virtual host (this file) this a flower, you must set it for any further virtual host explicitly.

# ServerName dever, you must set it for any further virtual host explicitly.

# ServerName demoZ.meskhydraulic.com

# For most configuration files from conf-available/,
```

Web Domain Detail:



Wordpress 1 (/var/www/wordpress/cat wp-config.php):

```
* @link https://wordpress.org/support/article/editing-wp-config-php/
* @gackage WordPress
*/

/** Database settings - You can get this info from your web host ** //

/** Database settings - You can get this info from your web host ** //

/** Database settings - You can get this info from your web host ** //

/** Database username */

define( 'DB_NAME', 'wordpress');

/** Database username */

define( 'DB_USER', 'wordpressuser');

/** Database nassword */

define( 'DB_HOST', 'localhost');

/** Database charset to use in creating database tables. */

define( 'DB_OLARSET', 'urfe');

/** The database collate type. Don't change this if in doubt. */

define( 'DB_OLARSET', 'urfe');

/**#R#*

* 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).

* You can change these at any point in time to invalidate all existing cookies.

* This will force all users to have to log in again.

* @since 2.6.0

*/

/*

define( 'AUTH_KEY', 'put your unique phrase here');

define( 'AUTH_KEY', 'put your unique phrase here');

define( 'MONGE_EX'', 'yut your unique phrase here');

define( 'MONGE_EX'', 'YALUES COPIED FROM THE COMMAND LINE');

define( 'NONGE_EXI', 'YALUES COPIED FROM THE COMMAND LINE');

define( NONGE_EXI', 'YALUES COPIED FROM THE COMMAND LINE');

define( NONGE_EXI', 'YALUES COPIED FROM THE COMMAND LINE');

define( NONGE_EXI', 'YALUES COPIED F
```

Wordpress 2 (/var/www/wordpress2/cat wp-config.php):

```
* * ABSPATH

* @link https://wordpress.org/support/article/editing-wp-config-php/

* @spackage WordPress

*//** Database settings - You can get this info from your web host ** //

/** The name of the database for WordPress */

define( 'NB_MME', 'atcl');

/** Database username */

define( 'NB_USER', 'atcl');

/** Database password */

define( 'NB_HOST', 'localhost');

/** Database hostname */

define( 'NB_CHARSET', 'urf8');

/** The database collate type. Don't change this if in doubt. */

define( 'NB_CHARSET', 'urf8');

/** The database collate type. Don't change this if in doubt. */

define( 'NB_CHARSET', 'urf8');

/**#G+

* Authentication unique keys and salts.

* Change these to different unique phrases! You can generate these using

* the (@link https://api.wordpress.org/secret-key/l.i/salt/ WordPress.org secret-key service).

* You can change these at any point in time to invalidate all existing cookies.

* This will force all users to have to log in again.

* @saince 2.6.0

*//

define( 'AUTH_KEY', 'put your unique phrase here');

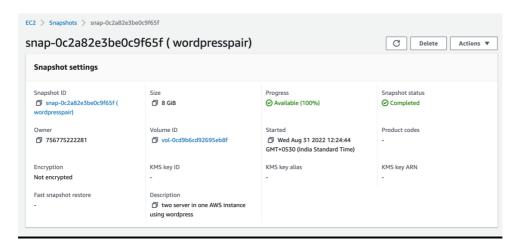
define( 'AUTH_SALT', 'put your unique phrase here');

define( 'AUTH_SALT', 'put your unique phrase here');

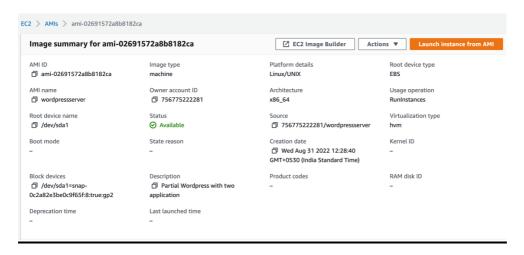
define( 'NONCE_SALT', 'NALUES COPIED FROM THE COMMAND LINE');

define( 'NONCE_SALT', 'NALUE
```

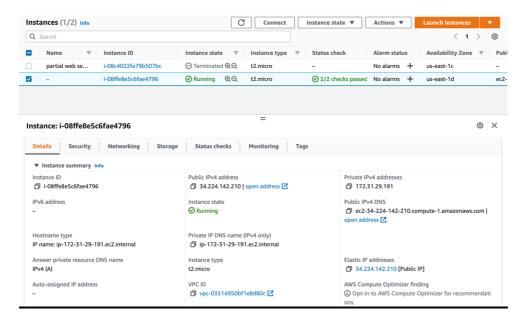
Taking Snapshot of the Instance:



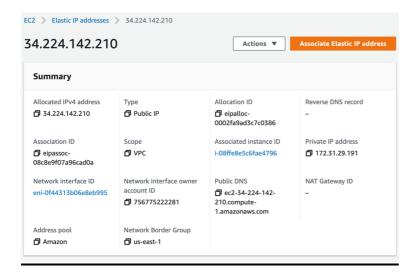
Creating AMI(amazon machine instance) from Snapshot:



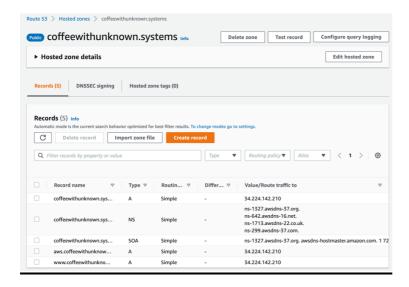
New Instance create from the Saved Image:



Association & Reconfiguration of Elastic IP:



ROUTE 53 Details:



Thank You