Infotrixs - AWS Cloud Intern

Name – Yogesh N

Github - https://github.com/Yogesh-24

Task 1

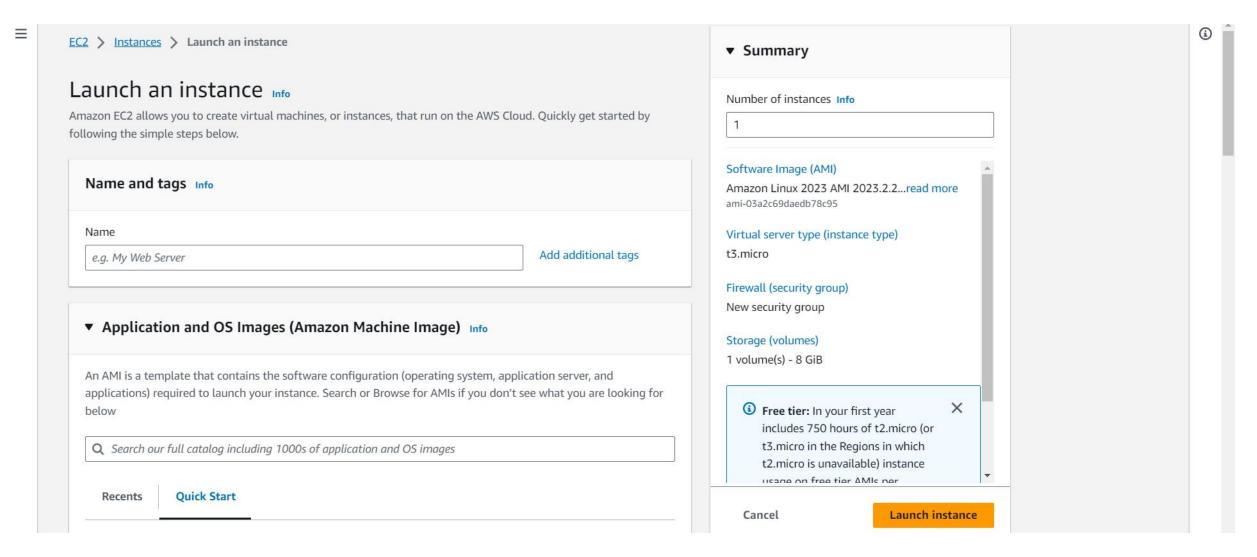
Deploy application in monolithic and microservices architecture Description:

- Monolithic 1 EC2 instance, deploy wordpress and MySql on same instances.
- Microserices 2 EC2 instance , 1 for wordpress and other for MySql
- EC2 instance type t3.micro
- AMI Ubuntu

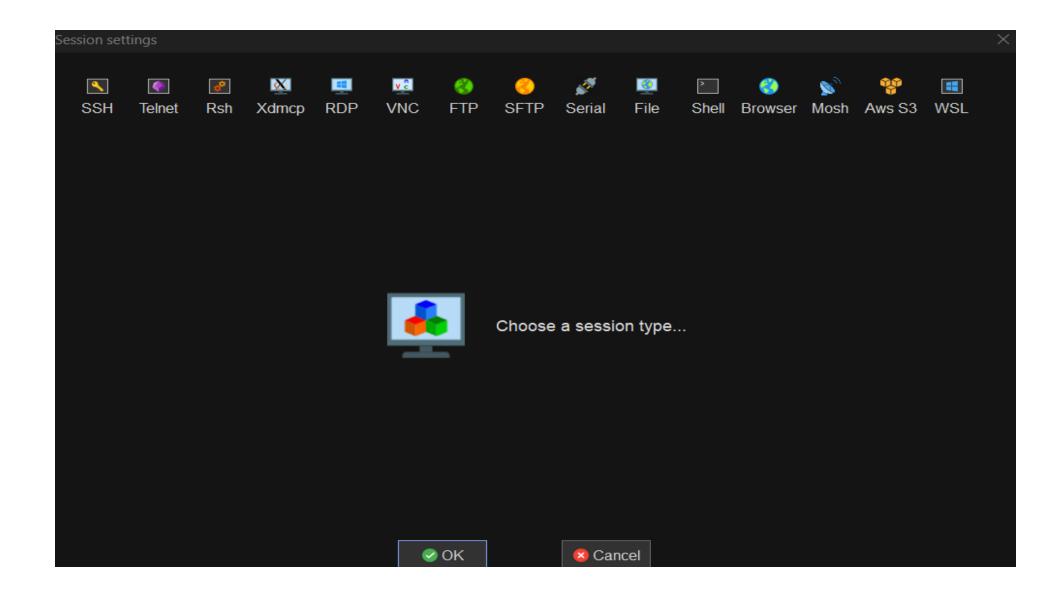
Instance Specifications

- Name mywordpress
- OS Ubuntu
- Instance Type t3.micro
- Storage 8 gb

Creating Instance



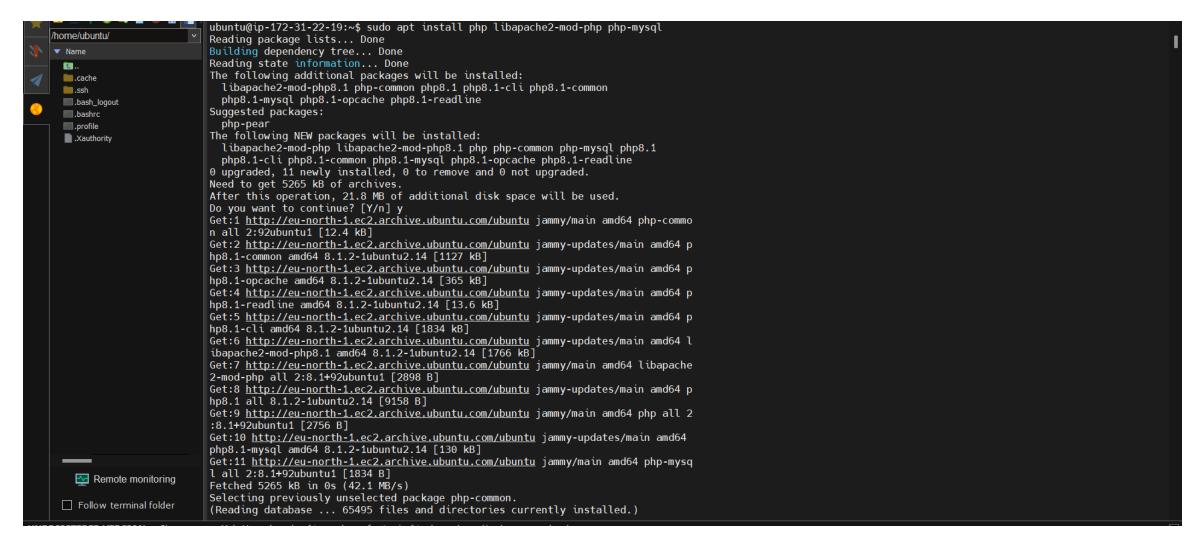
Connect Via SSH - MobaXterm



Step 1 – Installing Apache Server

```
ubuntu@ip-172-31-22-19:~$ sudo apt install apache2
                           Reading package lists... Done
/home/ubuntu/
                           Building dependency tree... Done
▼ Name
                           Reading state information... Done
                           The following additional packages will be installed:
 £.
                             apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1
  .cache
                             libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap mime-support
  .ssh
                             ssl-cert
  .bash logout
                           Suggested packages:
  .bashrc
                             apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser
  profile.
                             bz ip2-doc
  .Xauthority
                           The following NEW packages will be installed:
                             apache2 apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1
                             libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap mime-support
                             ssl-cert
                           0 upgraded, 13 newly installed, 0 to remove and 0 not upgraded.
                           Need to get 2137 kB of archives.
                           After this operation, 8505 kB of additional disk space will be used.
                           Do you want to continue? [Y/n] y
                           Get:1 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 l
                           ibapr1 amd64 1.7.0-8ubuntu0.22.04.1 [108 kB]
                           Get:2 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 l
                           ibaprutil1 amd64 1.6.1-5ubuntu4.22.04.2 [92.8 kB]
                           Get:3 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 l
                           ibaprutil1-dbd-sqlite3 amd64 1.6.1-5ubuntu4.22.04.2 [11.3 kB]
                           Get:4 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 l
                           ibaprutil1-ldap amd64 1.6.1-5ubuntu4.22.04.2 [9170 B]
                           Get:5 <a href="http://eu-north-1.ec2.archive.ubuntu.com/ubuntu">http://eu-north-1.ec2.archive.ubuntu.com/ubuntu</a> jammy/main amd64 liblua5.3
                           -0 amd64 5.3.6-1build1 [140 kB]
                           Get:6 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 a
                           pache2-bin amd64 2.4.52-1ubuntu4.6 [1345 kB]
                           Get:7 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 a
                           pache2-data all 2.4.52-1ubuntu4.6 [165 kB]
                           Get:8 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 a
```

Step 2 – Installing PHP Runtime and PHP MySQL Connector



Step 3 - Installing MySql Server

```
ubuntu@ip-172-31-22-19:~$ sudo apt install mysgl-server
                           Reading package lists... Done
/home/ubuntu/
                           Building dependency tree... Done
▼ Name
                           Reading state information... Done
                           The following additional packages will be installed:
 ŧ.
                            libcgi-fast-perl libcgi-pm-perl libclone-perl libencode-locale-perl
 .cache
                            libevent-pthreads-2.1-7 libfcgi-bin libfcgi-perl libfcgi0ldbl
 .ssh
                            libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl
 .bash_logout
                            libhttp-date-perl libhttp-message-perl libio-html-perl
 .bashrc
                            liblwp-mediatypes-perl libmecab2 libprotobuf-lite23 libtimedate-perl
 .profile
                            liburi-perl mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0
  .Xauthority
                            mysal-client-core-8.0 mysal-common mysal-server-8.0 mysal-server-core-8.0
                           Suggested packages:
                            libdata-dump-perl libipc-sharedcache-perl libbusiness-isbn-perl libwww-perl
                            mailx tinyca
                           The following NEW packages will be installed:
                            libcgi-fast-perl libcgi-pm-perl libclone-perl libencode-locale-perl
                            libevent-pthreads-2.1-7 libfcgi-bin libfcgi-perl libfcgi0ldbl
                            libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl
                            libhttp-date-perl libhttp-message-perl libio-html-perl
                            liblwp-mediatypes-perl libmecab2 libprotobuf-lite23 libtimedate-perl
                            liburi-perl mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0
                            mysql-client-core-8.0 mysql-common mysql-server mysql-server-8.0
                            mysgl-server-core-8.0
                           0 upgraded, 28 newly installed, 0 to remove and 49 not upgraded.
                           Need to get 21.8 MB/29.6 MB of archives.
                           After this operation, 243 MB of additional disk space will be used.
                           Do you want to continue? [Y/n] y
                           Get:1 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 m
                           vsql-client-core-8.0 amd64 8.0.35-0ubuntu0.22.04.1 [2682 kB]
                           Get:2 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 m
                           ysgl-client-8.0 amd64 8.0.35-0ubuntu0.22.04.1 [22.7 kB]
                           Get:3 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 m
                           ysql-server-core-8.0 amd64 8.0.35-0ubuntu0.22.04.1 [17.6 MB]
                           Get:4 <u>http://eu-north-1.ec2.archive.ubuntu.com/ubuntu</u> jammy-updates/main amd64 m
                           vsgl-server-8.0 amd64 8.0.35-0ubuntu0.22.04.1 [1438 kB]
                           Get:5 <a href="http://eu-north-1.ec2.archive.ubuntu.com/ubuntu">http://eu-north-1.ec2.archive.ubuntu.com/ubuntu</a> jammy-updates/main amd64 m
                           ysgl-server all 8.0.35-0ubuntu0.22.04.1 [9464 B]
                           Fetched 21.8 MB in 0s (50.2 MB/s)
    Remote monitoring
                           Preconfiguring packages ...
```

Step 4 – Installing Wordpress

```
ubuntu@ip-172-31-22-19:~$ cd /tmp
/home/ubuntu/
                          ubuntu@ip-172-31-22-19:/tmp$ wget https://wordpress.org/latest.tar.gz
                          --2023-11-08 10:11:47-- https://wordpress.org/latest.tar.gz
▼ Name
                         Resolving wordpress.org (wordpress.org)... 198.143.164.252
 t.
                         Connecting to wordpress.org (wordpress.org) 198.143.164.252 :443... connected.
 .cache
                         HTTP request sent, awaiting response... 200 OK
 .ssh
                         Length: 24480560 (23M) [application/octet-stream]
 .bash_logout
                         Saving to: 'latest.tar.gz'
 .bashrc
 .profile
                          latest.tar.gz
                                             in 2.7s
 .Xauthority
                         2023-11-08 10:11:51 (8.63 MB/s) - 'latest.tar.gz' saved [24480560/24480560]
                         ubuntu@ip-172-31-22-19:/tmp$ ls
                          latest.tar.gz
                          snap-private-tmp
                          systemd-private-8c47c8706aeb42fe8d38d668c7ee60e2-apache2.service-0JJqM6
                          systemd-private-8c47c8706aeb42fe8d38d668c7ee60e2-chrony.service-INJbDq
                          systemd-private-8c47c8706aeb42fe8d38d668c7ee60e2-systemd-logind.service-AWXctq
                          systemd-private-8c47c8706aeb42fe8d38d668c7ee60e2-systemd-resolved.service-6GTNUG
                          tmp.z1sHsD5JLX
                         ubuntu@ip-172-31-22-19:/tmp$ tar -xvf latest.tar.gz
                         wordpress/
                         wordpress/xmlrpc.php
                         wordpress/wp-blog-header.php
                         wordpress/readme.html
                         wordpress/wp-signup.php
                         wordpress/index.php
                         wordpress/wp-cron.php
                         wordpress/wp-config-sample.php
                         wordpress/wp-login.php
                         wordpress/wp-settings.php
                         wordpress/license.txt
                         wordpress/wp-content/
                         wordpress/wp-content/themes/
                         wordpress/wp-content/themes/twentytwentythree/
                         wordpress/wp-content/themes/twentytwentythree/theme.json
                         wordpress/wp-content/themes/twentvtwentvthree/parts/
   Remote monitoring
                         wordpress/wp-content/themes/twentytwentythree/parts/footer.html
                         wordpress/wp-content/themes/twentytwentythree/parts/comments.html

☐ Follow terminal folder

                         wordpress/wp-content/themes/twentvtwentvthree/parts/header.html
```

Static Webpage - Deployed Successfully

