

## Creating Infrastructure:

us-east-1.console.aws.amazon.com

CloudFormation

Stacks > Create stack

Step 1  
Create stack

Step 2  
Specify stack details

Step 3  
Configure stack options

Step 4  
Review and create

### Create stack

**Prerequisite - Prepare template**

Prepare template  
Every stack is based on a template. A template is a JSON or YAML file that contains configuration information about the AWS resources you want to include in the stack.

☒ Template is ready ☐ Use a sample template ☐ Create template in Designer

**Specify template**  
A template is a JSON or YAML file that describes your stack's resources and properties.

Template source  
Selecting a template generates an Amazon S3 URL where it will be stored.

☒ Amazon S3 URL ☐ Upload a template file ☐ Sync from Git - new

Provide an Amazon S3 URL to your template. Upload your template directly to the console. Sync a template from your Git repository.

Amazon S3 URL

Amazon S3 template URL  
S3 URL: https://s3.amazonaws.com/awsinaction-code3/chapter02/template.yaml

[View in Designer](#)

[Cancel](#) [Next](#)

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us-east-1.console.aws.amazon.com

CloudFormation

Stacks > Create stack

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### Specify stack details

**Provide a stack name**

Stack name

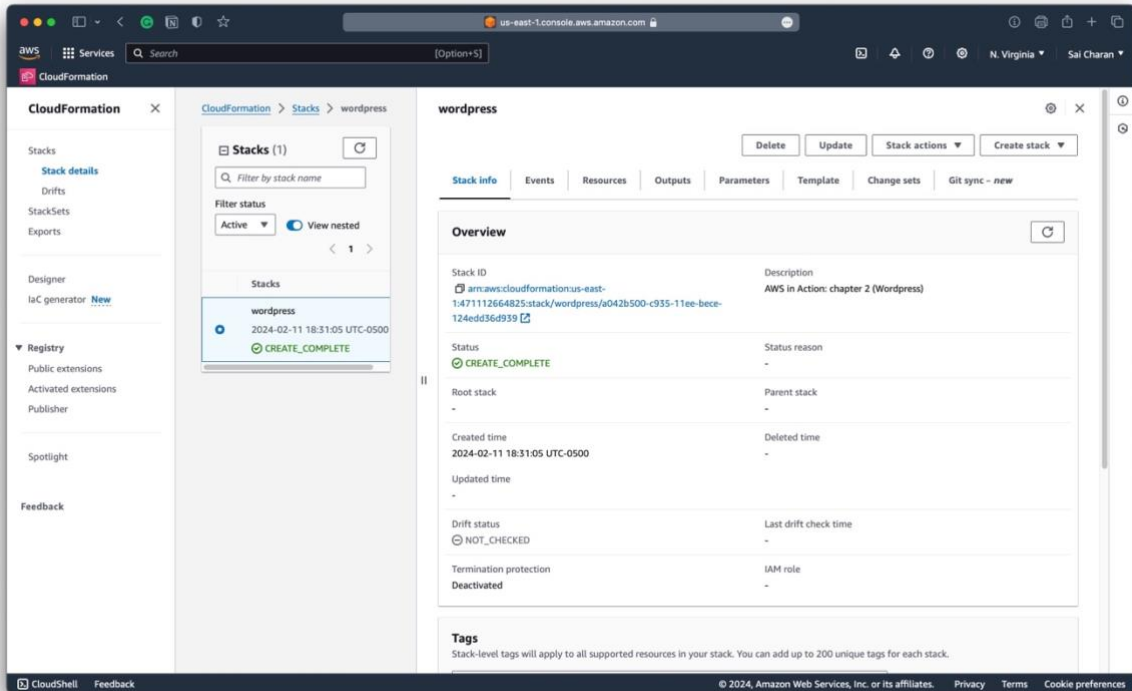
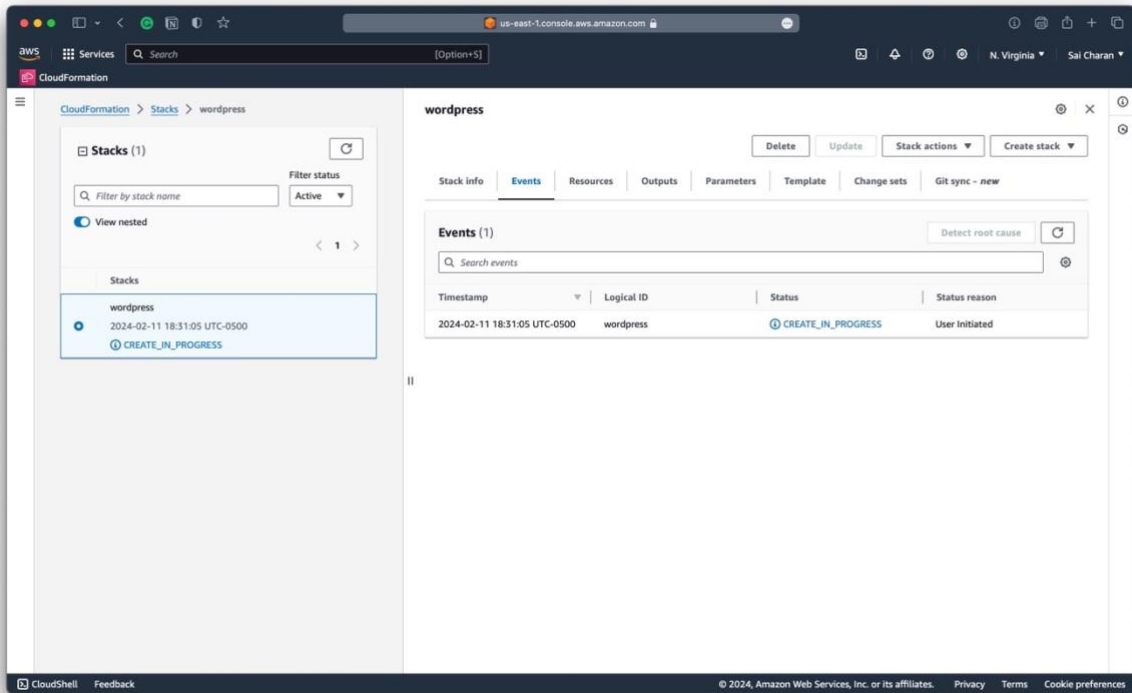
Stack name can include letters (A-Z and a-z), numbers (0-9), and dashes (-).

**Parameters**  
Parameters are defined in your template and allow you to input custom values when you create or update a stack.

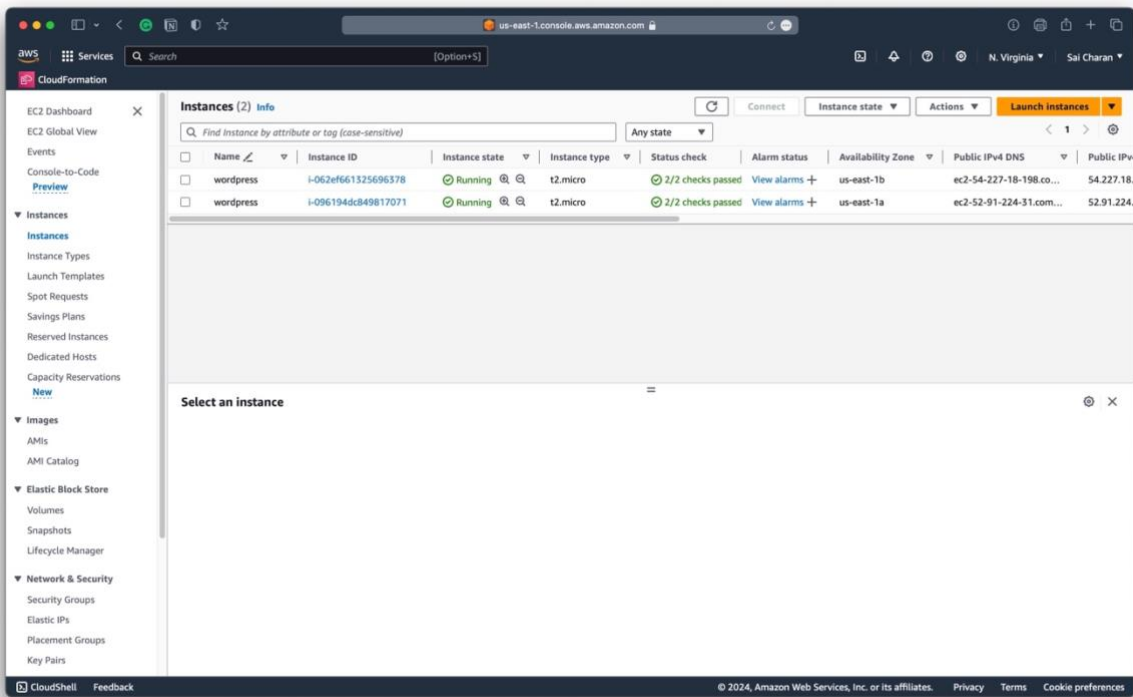
WordpressAdminPassword  
The password for the Wordpress administrator.

[Cancel](#) [Previous](#) [Next](#)

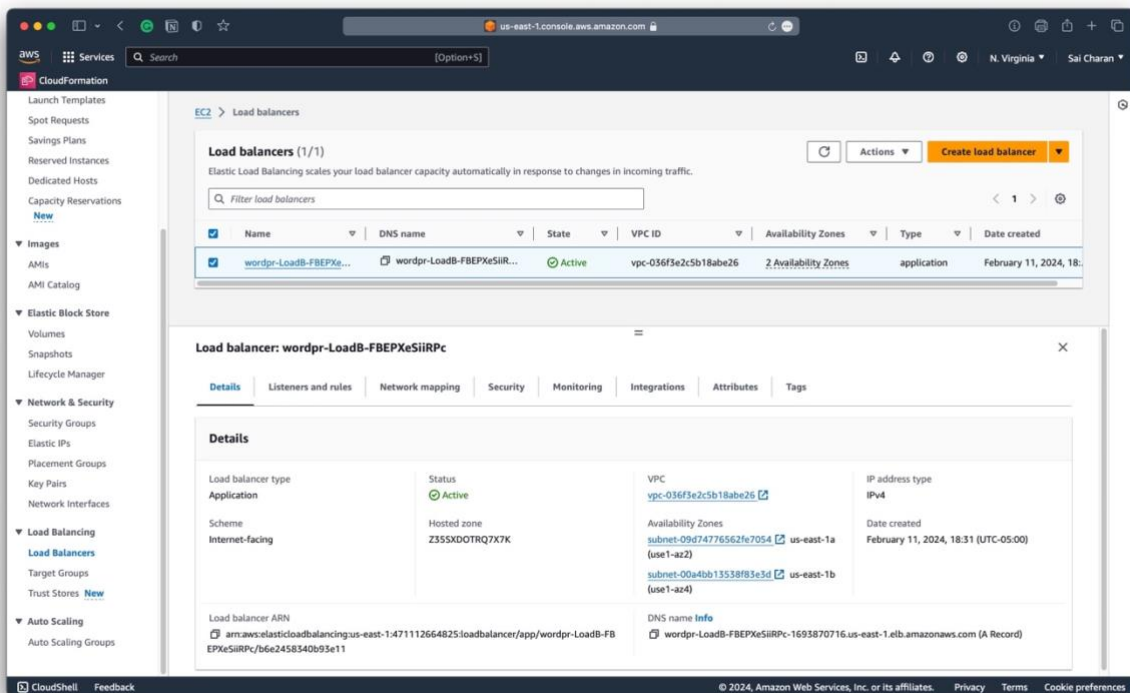
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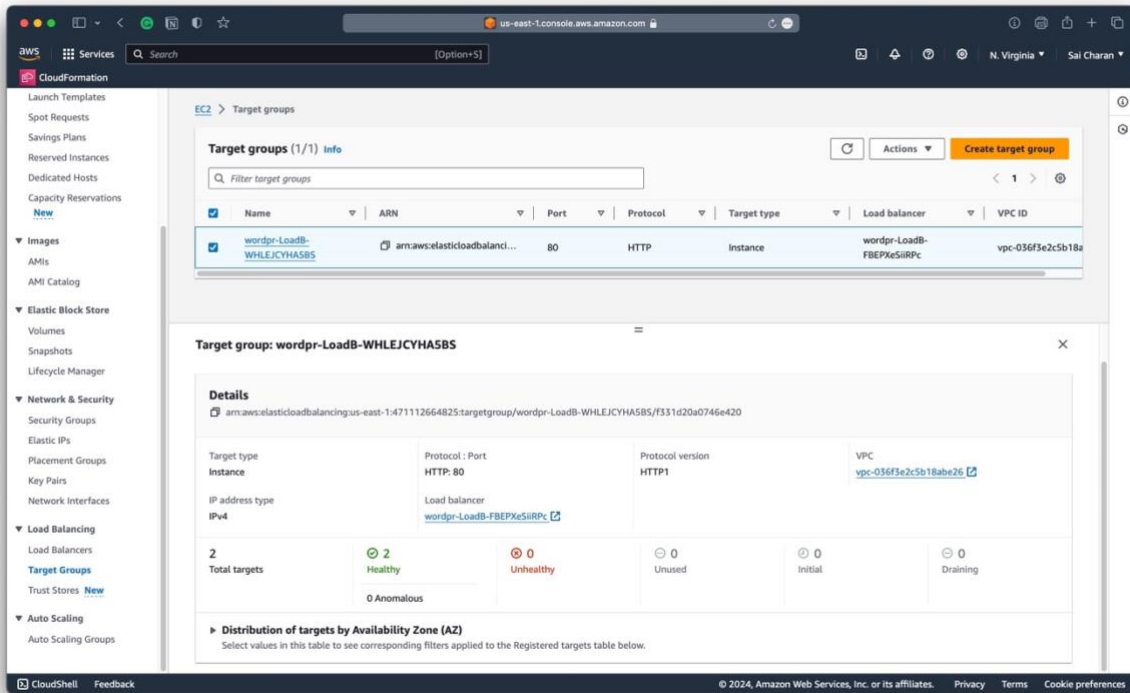


## Exploring Infrastructure

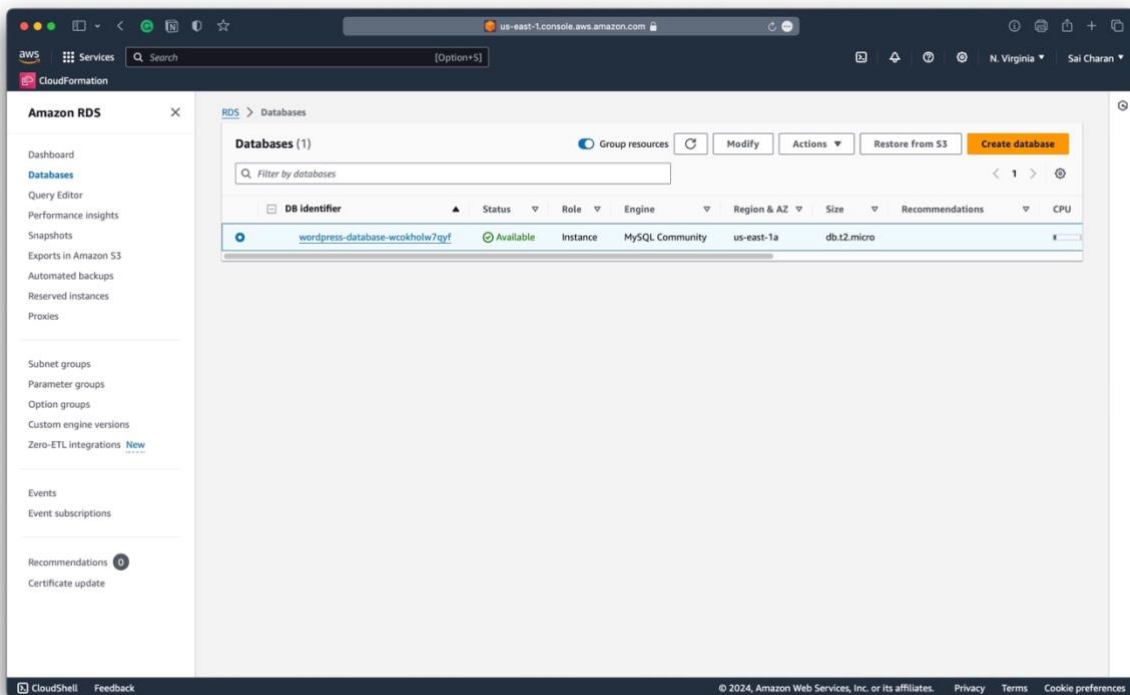


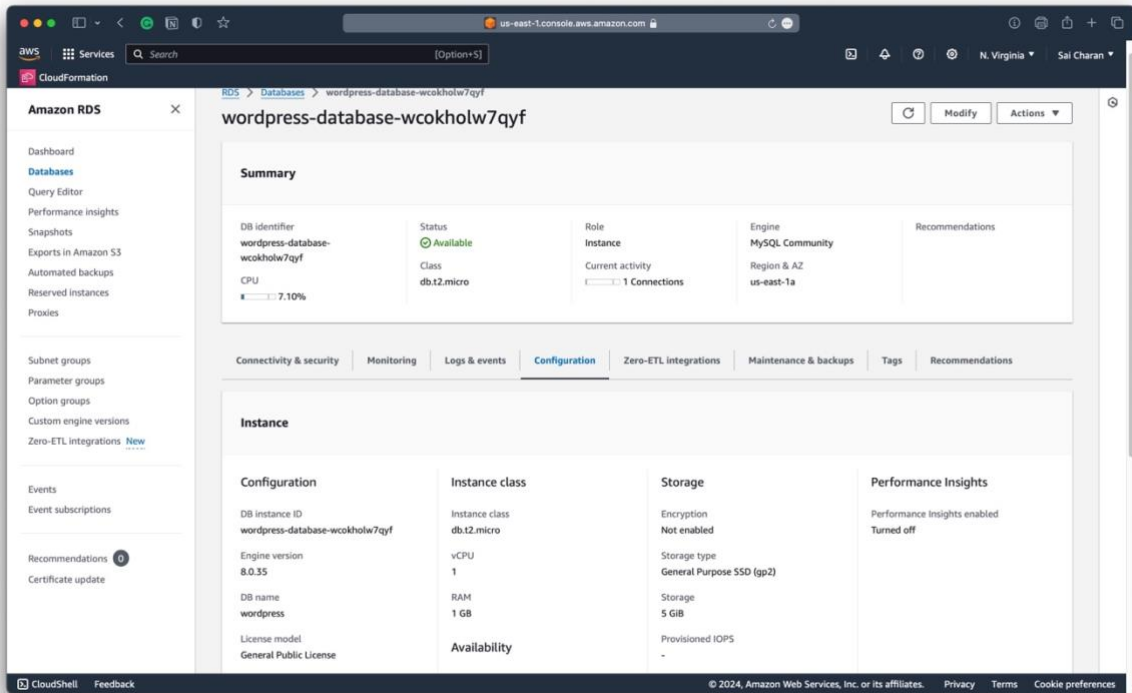
## Load Balancer:



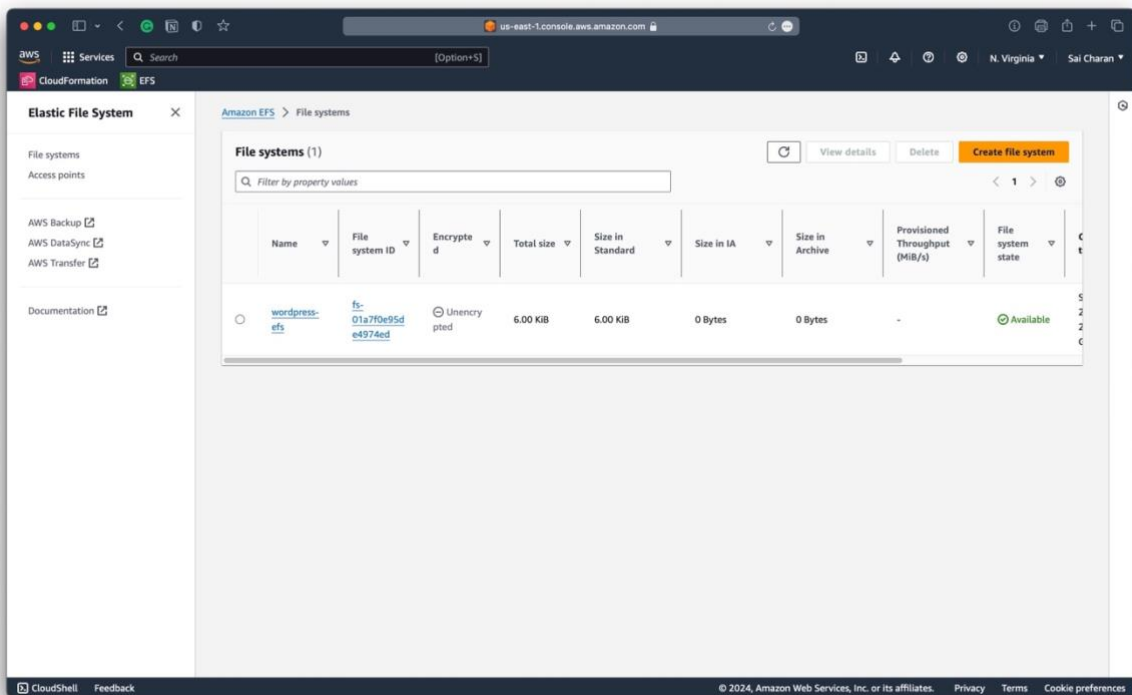


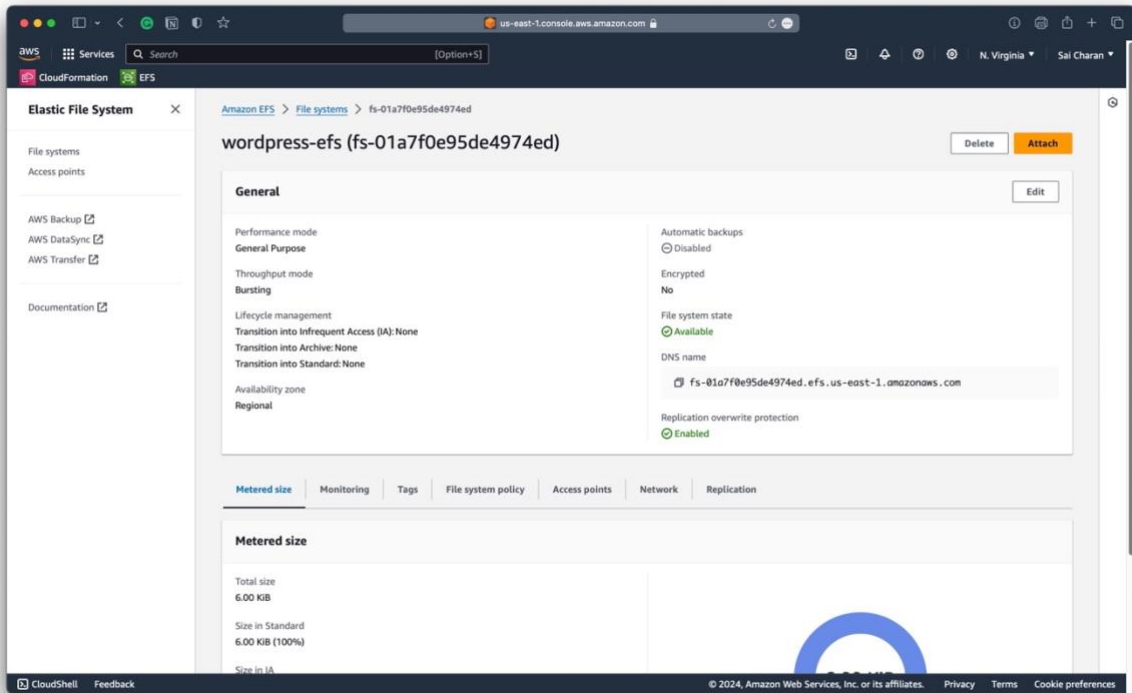
## MySQL database



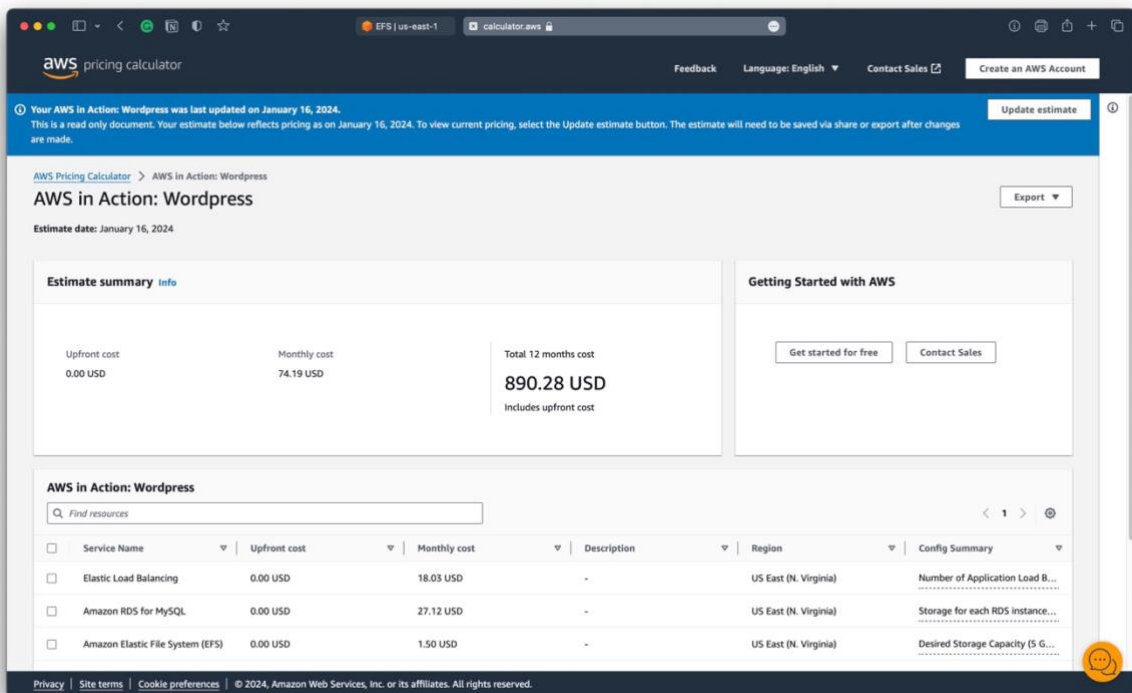


## Elastic File System

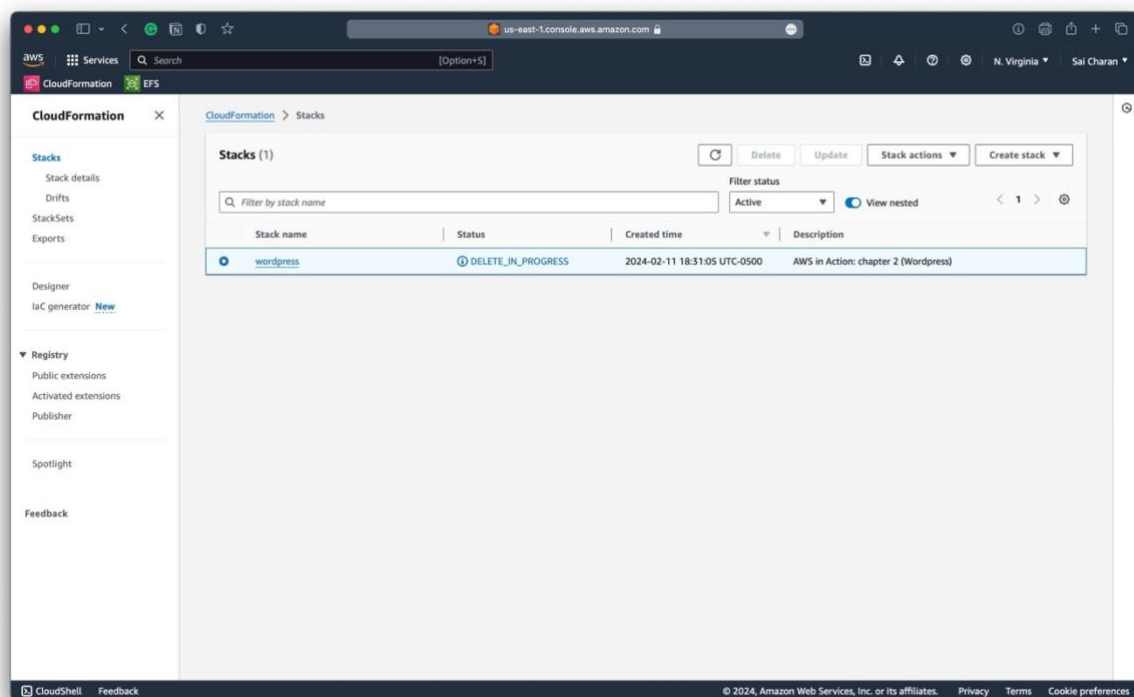
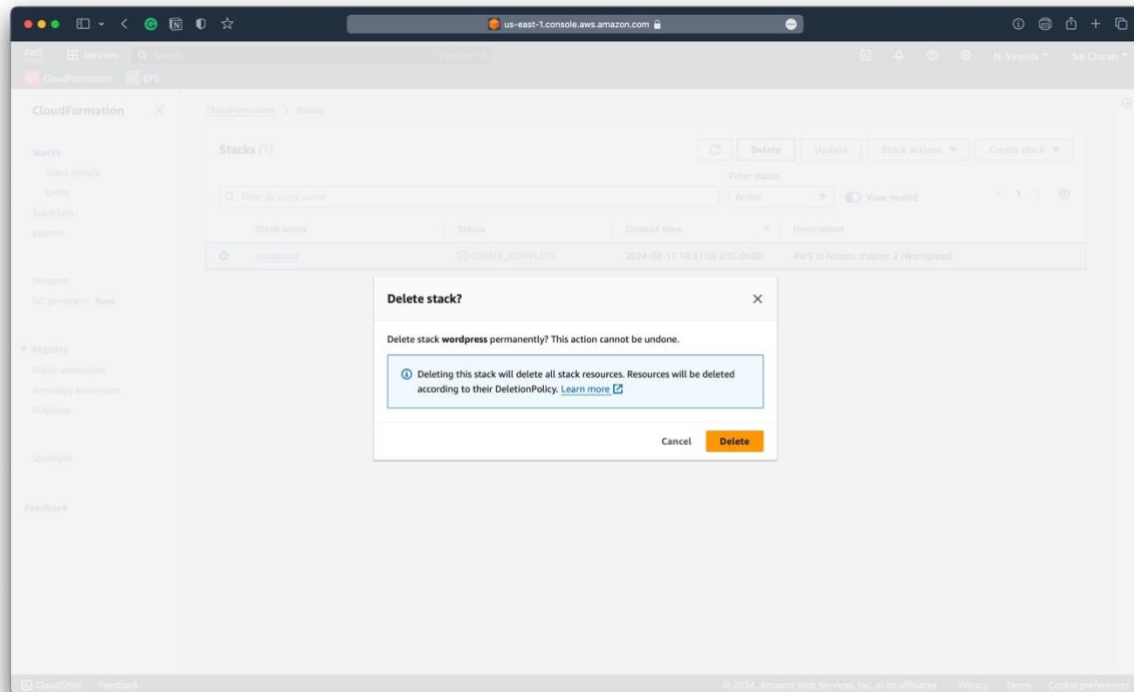




## AWS Pricing Calculator

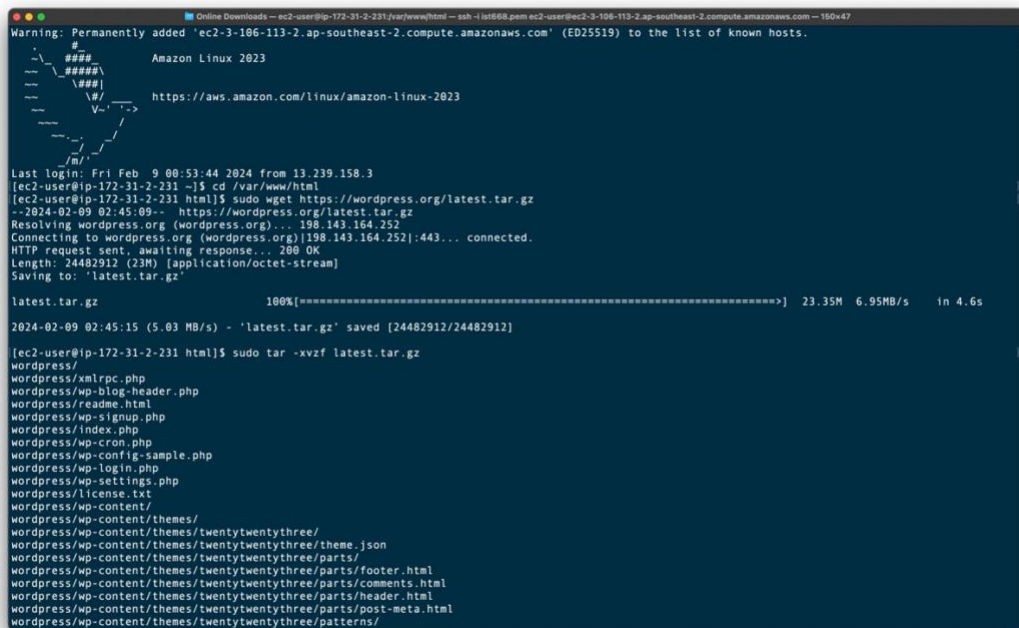


## Deleting Infrastructure:





Before referring to the textbook, I tried using Mac Terminal and Internet source to finish the assignment but, I have faced a few issues with the terminal commands. as I'm still a beginner in learning the LINUX and Mac Terminal Commands. But after referring to the Textbook the process is easy to understand. I'm attaching a few of the screenshots that I have done using the Command with Mac Terminal and AWS instance.



```
Warning: Permanently added 'ec2-3-106-113-2.ap-southeast-2.compute.amazonaws.com' (ED25519) to the list of known hosts.

Amazon Linux 2023

https://aws.amazon.com/linux/amazon-linux-2023

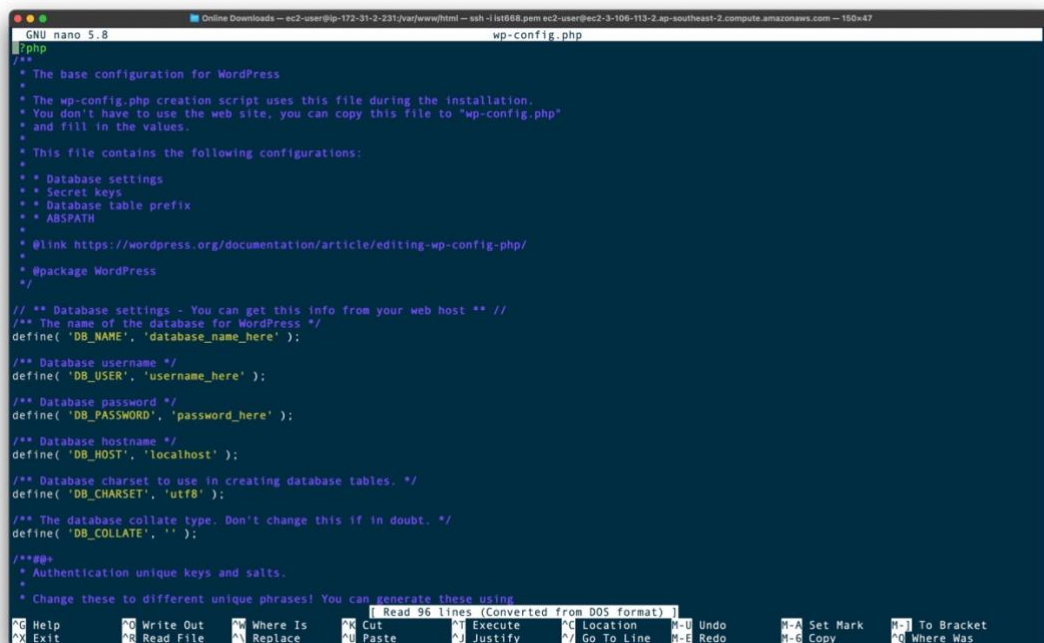
Last login: Fri Feb 9 00:53:44 2024 from 13.239.158.3
[ec2-user@ip-172-31-2-231 ~]$ cd /var/www/html
[ec2-user@ip-172-31-2-231 html]$ sudo wget https://wordpress.org/latest.tar.gz
--2024-02-09 02:45:09-- https://wordpress.org/latest.tar.gz
Resolving wordpress.org (wordpress.org)... 198.143.164.252
Connecting to wordpress.org (wordpress.org)[198.143.164.252]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 24482912 (23M) [application/octet-stream]
Saving to: 'latest.tar.gz'

latest.tar.gz           100%[=====] 23.35M  6.95MB/s   in 4.6s

2024-02-09 02:45:15 (5.03 MB/s) - 'latest.tar.gz' saved [24482912/24482912]

[ec2-user@ip-172-31-2-231 html]$ sudo tar -xvzf 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/twentytwentythree/parts/
wordpress/wp-content/themes/twentytwentythree/parts/footer.html
wordpress/wp-content/themes/twentytwentythree/parts/comments.html
wordpress/wp-content/themes/twentytwentythree/parts/header.html
wordpress/wp-content/themes/twentytwentythree/parts/post-meta.html
wordpress/wp-content/themes/twentytwentythree/patterns/
```

After connecting the instance using SSH in the terminal, I just directly downloaded “WordPress” with the Command “ sudo wget <https://wordpress.org/latest.tar.gz> “ .



```
GNU nano 5.8 wp-config.php
<?php
/*
 * The base configuration for WordPress
 *
 * The wp-config.php creation script uses this file during the installation.
 * You don't have to use the web site, you can copy this file to "wp-config.php"
 * and fill in the values.
 *
 * 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', 'database_name_here' );

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

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

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

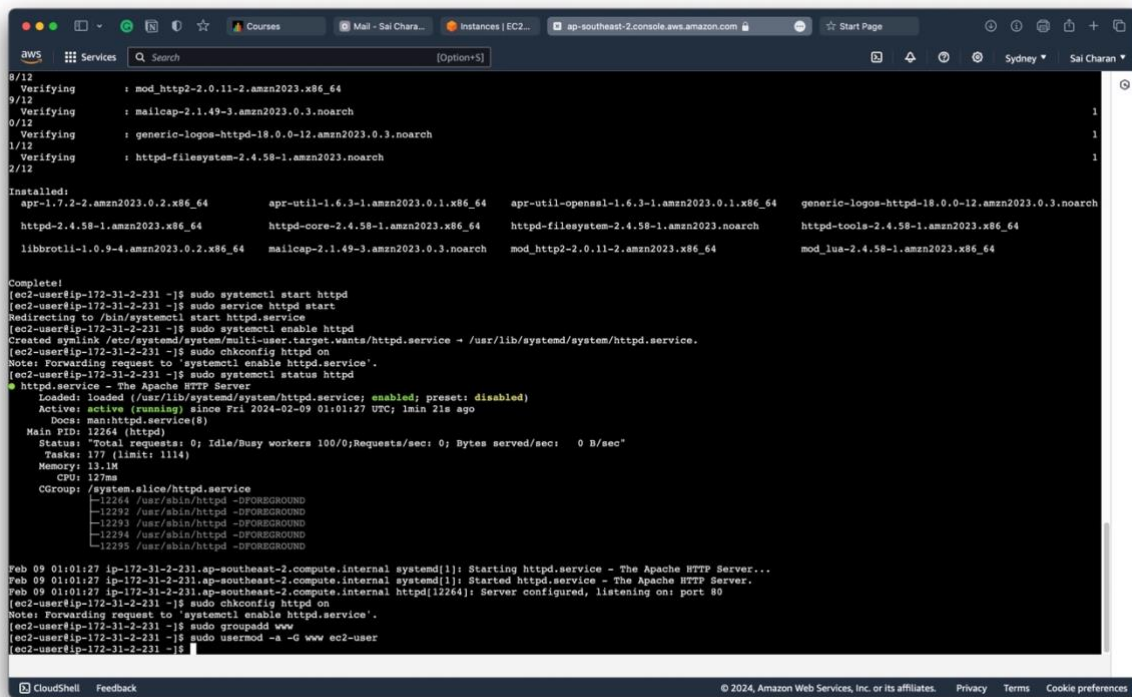
/** Database charset to use in creating database tables. */
define( 'DB_CHARSET', 'utf8' );

/** 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
 */
```



Even when I tried connecting to the instance using Web Connect Console, I failed with commands.



```
aws
Services
Search [Option+S]
[Option+S]
Sydney Sai Charan

8/12
Verifying : mod_http2-2.0.11-2.amzn2023.x86_64
9/12
Verifying : mailcap-2.1.49-3.amzn2023.0.3.noarch 1
0/12
Verifying : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch 1
1/12
Verifying : httpd-filesystem-2.4.58-1.amzn2023.noarch 1
2/12

Installed:
apr-1.7.2-2.amzn2023.0.2.x86_64 apr-util-1.6.3-1.amzn2023.0.1.x86_64 apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64 generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
httpd-2.4.58-1.amzn2023.x86_64 httpd-core-2.4.58-1.amzn2023.x86_64 httpd-filesystem-2.4.58-1.amzn2023.noarch httpd-tools-2.4.58-1.amzn2023.x86_64
libbrotli-1.0.9-4.amzn2023.0.2.x86_64 mailcap-2.1.49-3.amzn2023.0.3.noarch mod_http2-2.0.11-2.amzn2023.x86_64 mod_lua-2.4.58-1.amzn2023.x86_64

Complete!
[ec2-user@ip-172-31-2-231 ~]$ sudo systemctl start httpd
[ec2-user@ip-172-31-2-231 ~]$ sudo service httpd start
Redirecting to /bin/systemctl start httpd.service
[ec2-user@ip-172-31-2-231 ~]$ sudo systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service - /usr/lib/systemd/system/httpd.service.
[ec2-user@ip-172-31-2-231 ~]$ sudo chkconfig httpd on
Note: Forwarding request to 'systemctl enable httpd.service'.
[ec2-user@ip-172-31-2-231 ~]$ sudo systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
   Active: active (running) since Fri 2024-02-09 01:01:27 UTC; 1min 21s ago
     Docs: man:httpd.service(8)
   Main PID: 12264 (httpd)
  Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec: 0 B/sec"
    Tasks: 177 (limit: 1114)
   Memory: 13.1M
      CPU: 127ms
   CGroup: /system.slice/httpd.service
           └─12264 /usr/sbin/httpd -DFOREGROUND
             └─12292 /usr/sbin/httpd -DFOREGROUND
               └─12293 /usr/sbin/httpd -DFOREGROUND
                 └─12294 /usr/sbin/httpd -DFOREGROUND
                   └─12295 /usr/sbin/httpd -DFOREGROUND

Feb 09 01:01:27 ip-172-31-2-231.ap-southeast-2.compute.internal systemd[1]: Starting httpd.service - The Apache HTTP Server...
Feb 09 01:01:27 ip-172-31-2-231.ap-southeast-2.compute.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
Feb 09 01:01:27 ip-172-31-2-231.ap-southeast-2.compute.internal httpd[12264]: Server configured, listening on: port 80
[ec2-user@ip-172-31-2-231 ~]$ sudo chkconfig httpd on
Note: Forwarding request to 'systemctl enable httpd.service'.
[ec2-user@ip-172-31-2-231 ~]$ sudo groupadd www
[ec2-user@ip-172-31-2-231 ~]$ sudo usermod -s -G www ec2-user
[ec2-user@ip-172-31-2-231 ~]$
```

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