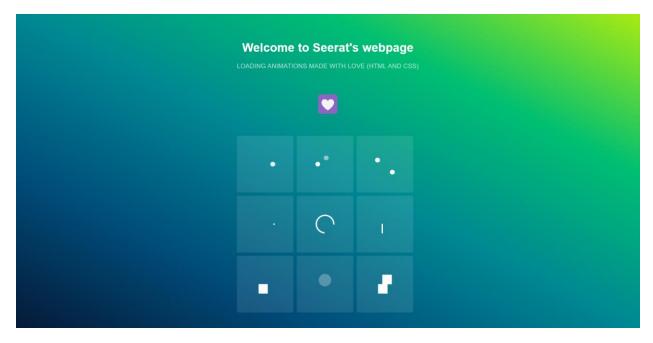
Assignment 6

Seerat



Steps->

I navigated to the AWS Management Console and entered my login credentials to access my account.

In the AWS Management Console, I searched for "EC2" and opened the EC2 Dashboard.

I selected an Amazon Machine Image (AMI), choosing Amazon Linux 2.

I chose an instance type, specifically t2.micro, which is free-tier eligible.

I configured the instance details, leaving the default settings as they were suitable for my needs.

I added storage, using the default settings provided.

I added a tag with a Key (e.g., "Name") and Value (e.g., "MyEC2Instance") to label my instance.

I configured a security group, creating a new one that allowed HTTP (port 80) and SSH (port 22) traffic.

After reviewing the settings, I clicked "Launch."

I created a new key pair, downloading the .pem file needed to connect to my instance.

I found the public IP address of my instance in the EC2 Dashboard.

I used a terminal or command prompt to connect to the instance using SSH, specifying the path to my .pem file and the instance's public IP address.

I then installed git on my instance and navigated to the desired directory on my instance.

I then cloned the repository containing the index.html file and navigated to the directory where index.html was located.

I moved the index.html file to the /var/www/html/ directory.

I updated the file permissions to make index.html readable by the web server.

I installed Apache2 on my instance.

I started the Apache service and enabled it to start on boot.

I opened a web browser and navigated to the public IP address of my instance to view the index.html file.

I edited the index.html file to update its content.

After saving the changes, I refreshed the web page to see the updated content.

I went to the EC2 Dashboard, selected my instance, and terminated it.

I faced an error and made a new inbound rule -> type - http, protocol- TCP, port range - 80, source IPv4 0.0.0.0/0

```
Command Prompt
Microsoft Windows [Version 10.0.22631.3880]
(c) Microsoft Corporation. All rights reserved.
C:\Users\8noor>ssh -i "C:\Users\8noor\Documents\ais\AISeerat.pem" ec2-user@18.119.137.114
The authenticity of host '18.119.137.114 (18.119.137.114)' can't be established.
ED25519 key fingerprint is SHA256:65gxfAiOQntQE9bV0ZwjWKvo//ZbMsBA0JzN1AzM/4Q. This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '18.119.137.114' (ED25519) to the list of known hosts.
          #_
####_
                           Amazon Linux 2023
        \_####
            \###|
              \#/
                           https://aws.amazon.com/linux/amazon-linux-2023
         _/m/'
[ec2-user@ip-172-31-12-63 ~]$ sudo yum install git -y
Last metadata expiration check: 0:02:26 ago on Fri Jul 26 02:17:29 2024.
Dependencies resolved.
 Package
                                        Architecture
                                                                                                                    Repository
                                                                                                                                                     Size
Installing:
                                        x86_64
                                                                  2.40.1-1.amzn2023.0.3
                                                                                                                                                     54 k
                                                                                                                    amazonlinux
Installing dependencies:
                                        x86_64
                                                                  2.40.1-1.amzn2023.0.3
                                                                                                                    amazonlinux
                                                                                                                                                    4.3 M
 git-core
                                                                  2.40.1-1.amzn2023.0.3
1:0.17029-5.amzn2023.0.2
 git-core-doc
                                                                                                                    amazonlinux
                                                                                                                                                    2.6 M
                                        noarch
 perl-Error
                                                                                                                    amazonlinux
                                                                                                                                                     41 k
                                        noarch
                                                                  1.37-477.amzn2023.0.6
2.40.1-1.amzn2023.0.3
 perl-File-Find
                                                                                                                    amazonlinux
                                                                                                                                                     26 k
                                        noarch
                                                                                                                    amazonlinux
                                                                                                                                                     42 k
                                        noarch
                                                                  2.38-9.amzn2023.0.2
                                         x86_64
                                                                                                                    amazonlinux
                                                                                                                                                     36 k
 perl-lib
                                                                                                                                                     15 k
                                        x86_64
                                                                  0.65-477.amzn2023.0.6
                                                                                                                    amazonlinux
Transaction Summary
Install 8 Packages
Total download size: 7.1 M
Installed size: 34 M
Downloading Packages:
(1/8): git-2.40.1-1.amzn2023.0.3.x86_64.rpm
(2/8): perl-Error-0.17029-5.amzn2023.0.2.noarch.rpm
(3/8): git-core-2.40.1-1.amzn2023.0.3.x86_64.rpm
(4/8): git-core-doc-2.40.1-1.amzn2023.0.3.noarch.rpm
                                                                                                                  850 kB/s |
                                                                                                                                  54 kB
                                                                                                                                               00:00
                                                                                                                  2.6 MB/s
29 MB/s
                                                                                                                                 41 kB
                                                                                                                                               00:00
00:00
                                                                                                                                4.3 MB
                                                                                                                   15 MB/s
                                                                                                                                 2.6 MB
                                                                                                                                               00:00
(5/8): perl-File-Find-1.37-477.amzn2023.0.6.noarch.rpm
                                                                                                                  270 kB/s
                                                                                                                                  26 kB
                                                                                                                                               00:00
(6/8): perl-Git-2.40.1-1.amzn2023.0.3.noarch.rpm
                                                                                                                  1.9 MB/s
                                                                                                                                  42 kB
                                                                                                                                               00:00
(7/8): perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64.rpm (8/8): perl-lib-0.65-477.amzn2023.0.6.x86_64.rpm
                                                                                                                  1.4 MB/s
                                                                                                                                  36 kB
                                                                                                                                               00:00
                                                                                                                  639 kB/s
                                                                                                                                  15 kB
                                                                                                                                               00:00
Total
                                                                                                                   26 MB/s | 7.1 MB
                                                                                                                                               00:00
```

```
Command Prompt
 Transaction check succeeded.
Running transaction test
Transaction test succeeded.
 Running transaction
    Preparing
    Installing
                                   git-core-2.40.1-1.amzn2023.0.3.x86_64
    Installing
                                : git-core-doc-2.40.1-1.amzn2023.0.3.noarch
                                                                                                                                                                                                  2/8
    Installing
                                : perl-lib-0.65-477.amzn2023.0.6.x86_64
                                                                                                                                                                                                  3/8
                                   perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64
perl-File-Find-1.37-477.amzn2023.0.6.noarch
    Installing
                                                                                                                                                                                                  4/8
    Installing
                                                                                                                                                                                                  5/8
    Installing
                                 : perl-Error-1:0.17029-5.amzn2023.0.2.noarch
                                                                                                                                                                                                  6/8
    Installing
                                   perl-Git-2.40.1-1.amzn2023.0.3.noarch
                                                                                                                                                                                                  7/8
    Installing
                                 : git-2.40.1-1.amzn2023.0.3.x86_64
                                                                                                                                                                                                  8/8
    Running scriptlet: git-2.40.1-1.amzn2023.0.3.x86_64
                                                                                                                                                                                                  8/8
                                   git-2.40.1-1.amzn2023.0.3.x86_64
                                                                                                                                                                                                  1/8
    Verifying
                                : git-core-2.40.1-1.amzn2023.0.3.x86_64
                                                                                                                                                                                                  2/8
    Verifying
    Verifying
                                : git-core-doc-2.40.1-1.amzn2023.0.3.noarch
                                                                                                                                                                                                  3/8
                                : perl-Error-1:0.17029-5.amzn2023.0.2.noarch
                                                                                                                                                                                                  4/8
    Verifying
                                 : perl-File-Find-1.37-477.amzn2023.0.6.noarch
    Verifying
                                                                                                                                                                                                  5/8
                                perl-Git-2.40.1-1.amzn2023.0.3.noarch

: perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64

: perl-lib-0.65-477.amzn2023.0.6.x86_64
    Verifying
                                                                                                                                                                                                  6/8
    Verifying
                                                                                                                                                                                                  7/8
    Verifying
 Installed:
    git-2.40.1-1.amzn2023.0.3.x86_64
                                                                                                        git-core-2.40.1-1.amzn2023.0.3.x86_64
    git-core-doc-2.40.1-1.amzn2023.0.3.noarch
                                                                                                        perl-Error-1:0.17029-5.amzn2023.0.2.noarch
    perl-File-Find-1.37-477.amzn2023.0.6.noarch
                                                                                                        perl-Git-2.40.1-1.amzn2023.0.3.noarch
    perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64
                                                                                                        perl-lib-0.65-477.amzn2023.0.6.x86_64
 Complete!
Complete!

[ec2-user@ip-172-31-12-63 ~]$ cd /home/ec2-user

[ec2-user@ip-172-31-12-63 ~]$ cd \home\ec2-user

-bash: cd: homeec2-user: No such file or directory

[ec2-user@ip-172-31-12-63 ~]$ cd /home/ec2-user

[ec2-user@ip-172-31-12-63 ~]$ git clone https://github.com/EvolveNextGen/AI-101-Bootcamp-June-2024.git

Closing into 'AI-101-Bootcamp-June-2024'
[ec2-user@ip-172-31-12-63 ~]$ git clone https://github.com/EvolveNextGen/AI-101-Bootca Cloning into 'AI-101-Bootcamp-June-2024'...
remote: Enumerating objects: 307, done.
remote: Counting objects: 100% (174/174), done.
remote: Compressing objects: 100% (146/146), done.
remote: Total 307 (delta 63), reused 37 (delta 12), pack-reused 133
Receiving objects: 100% (307/307), 14.30 MiB | 17.50 MiB/s, done.
Resolving deltas: 100% (307/307), 14.30 MiB | 17.50 MiB/s, done.
[ec2-user@ip-172-31-12-63 ~]$ cd AI-101-Bootcamp-June-2024/Assignment6
[ec2-user@ip-172-31-12-63 Assignment6]$ sudo mv index.html /var/www/html/index.html
mv: cannot move 'index.html' to '/var/www/html/index.html': No such file or directory
[ec2-user@ip-172-31-12-63 Assignment6]$ ls -l
total 7680
 total 7680
 -rw-r--r--. 1 ec2-user ec2-user 7759722 Jul 26 02:21 Assignment_06_Timothy.pdf
-rw-r--r--. 1 ec2-user ec2-user 96358 Jul 26 02:21 Katelyn_Assignment6.PNG
                                                         1306 Jul 26 02:21 index.html
 -rw-r--r--. 1 ec2-user ec2-user
 [ec2-user@ip-172-31-12-63 Assignment6]$ sudo systemctl status httpd
 [ec2-user@ip-172-31-12-63 Assignment6]$ sudo yum install httpd -y
```

© Command Prompt X + ∨				
Package	Architecture	Version	Repository	Size
Installing: httpd	×86_64	2.4.61–1.amzn2023	amazonlinux	47 k
Installing dependencies: apr	x86_64	1.7.2-2.amzn2023.0.2	amazonlinux	129 k
apr-util generic-logos-httpd	x86_64 noarch	1.6.3-1.amzn2023.0.1 18.0.0-12.amzn2023.0.3	amazonlinux amazonlinux	98 k 19 k
httpd-core httpd-filesystem	x86_64 noarch	2.4.61-1.amzn2023 2.4.61-1.amzn2023	amazonlinux amazonlinux	1.4 M 14 k
httpd-tools libbrotli	x86_64 x86_64	2.4.61-1.amzn2023 1.0.9-4.amzn2023.0.2	amazonlinux amazonlinux	81 k 315 k
mailcap Installing weak dependencies	noarch	2.1.49-3.amzn2023.0.3	amazonlinux	33 k
apr-util-openssl	x86_64	1.6.3-1.amzn2023.0.1	amazonlinux	17 k
mod_http2 mod_lua	x86_64 x86_64	2.0.27-1.amzn2023.0.2 2.4.61-1.amzn2023	amazonlinux amazonlinux	166 k 61 k
Transaction Summary				
Install 12 Packages	==========		=======================================	========
Total download size: 2.3 M Installed size: 6.9 M Downloading Packages: (1/12): apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64.rpm (2/12): apr-util-1.6.3-1.amzn2023.0.1.x86_64.rpm (3/12): apr-util-1.6.3-1.amzn2023.0.1.x86_64.rpm (4/12): generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch.rpm (5/12): httpd-2.4.61-1.amzn2023.x86_64.rpm (6/12): httpd-filesystem-2.4.61-1.amzn2023.noarch.rpm (7/12): httpd-core-2.4.61-1.amzn2023.x86_64.rpm (8/12): httpd-tools-2.4.61-1.amzn2023.x86_64.rpm (8/12): libbrotli-1.0.9-4.amzn2023.x86_64.rpm (9/12): libbrotli-1.0.9-4.amzn2023.0.2.x86_64.rpm (10/12): mailcap-2.1.49-3.amzn2023.0.3.noarch.rpm (11/12): mod_http2-2.0.27-1.amzn2023.0.2.x86_64.rpm (12/12): mod_http2-2.0.27-1.amzn2023.0.2.x86_64.rpm			279 kB/s 17 kB 1.9 MB/s 129 kB 1.3 MB/s 98 kB 1.1 MB/s 19 kB 2.4 MB/s 47 kB 798 kB/s 14 kB 33 MB/s 1.4 MB 2.4 MB/s 81 kB 11 MB/s 315 kB 1.5 MB/s 33 kB 6.4 MB/s 166 kB 2.6 MB/s 61 kB	00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00
Total Running transaction check Transaction check succeeded. Running transaction test Transaction test succeeded. Running transaction			11 MB/s 2.3 MB	00 : 00
Preparing : Installing : apr-1.7.2-2.amzn2023.0.2.x86_64 Installing : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64 Installing : apr-util-1.6.3-1.amzn2023.0.1.x86_64 Installing : mailcap-2.1.49-3.amzn2023.0.3.noarch Installing : httpd-tools-2.4.61-1.amzn2023.x86_64				1/1 1/12 2/12 3/12 4/12 5/12
Installing: libbrotli-1.0.9-4.amzn2023.0.2.x86_64				6/12

```
| Decimal Property | X | Part | Apple | Part | Decimal Property | Deci
```

```
Command Prompt
 [ec2-user@ip-172-31-12-63 Assignment6]$ sudo systemctl restart httpd
[ec2-user@ip-172-31-12-63 Assignment6]$ sudo cat /var/www/html/index.html
<!DOCTYPE html>
 <html lang="en">
<head>
        <meta charset="UTF-8">
       <meta name="viewport" content="width=device-width, initial-scale=1.0">
       <title>Demo Page</title>
       <style>
              body {
    font-family: Arial, sans-serif;
                     margin: 0;
padding: 0;
              header {
                     background-color: #4CAF50;
                     color: white;
text-align: center;
                     padding: 10px 0;
               footer {
                     background-color: #f1f1f1;
                     color: #333;
text-align: center;
padding: 10px 0;
position: fixed;
                     width: 100%;
                     bottom: 0;
              .content {
   padding: 20px;
   margin-top: 60px; /* Space for fixed header */
   margin-bottom: 60px; /* Space for fixed footer */
       </style>
 </head>
<body>
        <header>
              <h1>Welcome to the Demo Page</h1>
       </header>
       <div class="content">
              for the main content area. You can add your text, images, or any other HTML elements here.for the main content area. You can add your text, images, or an external stylesheet.
       </div>
       <footer>
              © 2024 Demo Page. All rights reserved.
       </footer>
 </body>

</ptools/
</pre>
</ptools/
</pre>
/html>[ec2-user@ip-172-31-12-63 Assignment6]$ sudo chowd 644 /var/www/html/index.html
[ec2-user@ip-172-31-12-63 Assignment6]$ sudo chown apache:apache /var/www/html/index.html
[ec2-user@ip-172-31-12-63 Assignment6]$ sudo nano /var/www/html/index.html
[ec2-user@ip-172-31-12-63 Assignment6]$ sudo nano /var/www/html/index.html
[ec2-user@ip-172-31-12-63 Assignment6]$ sudo nano /var/www/html/index.html
```

```
Command Prompt
                   margin-bottom: 60px; /* Space for fixed footer */
      </style>
</head>
<body>
       -
<header>
            <h1>Welcome to the Demo Page</h1>
      </header>
      <div class="content">
            This is the main content area. You can add your text, images, or any other HTML elements here.
Feel free to style this section as you like using inline CSS or an external stylesheet.
      </div>
      <footer>
             © 2024 Demo Page. All rights reserved.
      </footer>
</body>
</html>[ec2-user@ip-172-31-12-63 Assignment6]$ sudo chmod 644 /var/www/html/index.html
[ec2-user@ip-172-31-12-63 Assignment6]$ sudo chwn apache:apache /var/www/html/index.html
[ec2-user@ip-172-31-12-63 Assignment6]$ sudo nano /var/www/html/index.html
[ec2-user@ip-172-31-12-63 Assignment6]$
Broadcast message from root@localhost (Fri 2024-07-26 03:08:54 UTC):
The system will power off now!
Connection to 18.119.137.114 closed by remote host.
Connection to 18.119.137.114 closed.
C:\Users\8noor>
```