

Practical No. 1

Problem Statement :- Case study on Amazon EC2 and learn about Amazon EC2 web services.

EC2 Console

Instance details | EC2 | ap | x

EC2 Instance Connect | aj | x

DSBDA Lab Manual & Sy | x

Assignment7.ipynb - Col | x

New Tab | x

+ | - | x

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-046f2124db67e8... ☆ | | | | |

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Amazon Linux 2023

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

[ec2-user@ip-172-31-4-35 ~]\$ sudo su -

[root@ip-172-31-4-35 ~]# yum update -y

Amazon Linux 2023 Kernel Livepatch repository

Last metadata expiration check: 0:00:01 ago on Mon Apr 7 08:53:28 2025.

Dependencies resolved.

Nothing to do.

Complete!

[root@ip-172-31-4-35 ~]# yum install -y httpd

Last metadata expiration check: 0:00:34 ago on Mon Apr 7 08:53:28 2025.

Dependencies resolved.

Package	Architecture	Version	Repository	Size
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i-046f2124db67e87c0 (Pranjal's Web Server)

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Instance details | EC2 | ap | x

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New Tab | x

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ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-046f2124db67e8... ☆ | | | | |

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Package

Architecture

Version

Repository

Size

Installing:

httpd

x86_64

2.4.62-1.amzn2023

amazonlinux

48 k

Installing dependencies:

apr

x86_64

1.7.5-1.amzn2023.0.4

amazonlinux

129 k

apr-util

x86_64

1.6.3-1.amzn2023.0.1

amazonlinux

98 k

generic-logos-httpd

noarch

18.0.0-12.amzn2023.0.3

amazonlinux

19 k

httpd-core

x86_64

2.4.62-1.amzn2023

amazonlinux

1.4 M

httpd-filesystem

noarch

2.4.62-1.amzn2023

amazonlinux

14 k

httpd-tools

x86_64

2.4.62-1.amzn2023

amazonlinux

81 k

libbrotli

x86_64

1.0.9-4.amzn2023.0.2

amazonlinux

315 k

mailcap

noarch

2.1.49-3.amzn2023.0.3

amazonlinux

33 k

Installing weak dependencies:

apr-util-openssl

x86_64

1.6.3-1.amzn2023.0.1

amazonlinux

17 k

mod_http2

x86_64

2.0.27-1.amzn2023.0.3

amazonlinux

166 k

mod_lua

x86_64

2.4.62-1.amzn2023

amazonlinux

61 k

Transaction Summary

Install 12 Packages

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Browser tabs: Instance details | EC2 | ap... | EC2 Instance Connect | a... | OSBDA Lab Manual & Sy... | Assignment7.ipynb - Col... | Directory Landing Page | +

Address bar: ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-046f2124db67e8...

Navigation bar: MyHP LIFE | Microsoft learn | Simplilearn | Dashboard | Learnin... | Free Agile Scrum M... | How to Network on... | ChatGPT | Tableau | PMO Onboarding

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```

Total                                                                 15 MB/s | 2.3 MB    00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing      :                                                    1/1
  Installing     : apr-1.7.5-1.amzn2023.0.4.x86_64                    1/12
  Installing     : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64       2/12
  Installing     : apr-util-1.6.3-1.amzn2023.0.1.x86_64              3/12
  Installing     : mailcap-2.1.49-3.amzn2023.0.3.noarch               4/12
  Installing     : httpd-tools-2.4.62-1.amzn2023.x86_64              5/12
  Installing     : libbrotli-1.0.9-4.amzn2023.0.2.x86_64             6/12
Running scriptlet: httpd filesystem-2.4.62-1.amzn2023.noarch          7/12
  Installing     : httpd filesystem-2.4.62-1.amzn2023.noarch          7/12
  Installing     : httpd-core-2.4.62-1.amzn2023.x86_64               8/12
  Installing     : mod_http2-2.0.27-1.amzn2023.0.3.x86_64            9/12
  Installing     : mod_lua-2.4.62-1.amzn2023.x86_64                 10/12
  Installing     : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch 11/12
  Installing     : httpd-2.4.62-1.amzn2023.x86_64                   12/12
Running scriptlet: httpd-2.4.62-1.amzn2023.x86_64                   12/12
  Verifying      : apr-1.7.5-1.amzn2023.0.4.x86_64                   1/12
  Verifying      : apr-util-1.6.3-1.amzn2023.0.1.x86_64              2/12

```

i-046f2124db67e87c0 (Pranjal's Web Server)

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```
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           486 kB/s | 17 kB    00:00
(2/12): apr-util-1.6.3-1.amzn2023.0.1.x86_64.rpm                 2.4 MB/s | 98 kB    00:00
(3/12): apr-1.7.5-1.amzn2023.0.4.x86_64.rpm                      2.8 MB/s | 129 kB   00:00
(4/12): generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch.rpm    1.1 MB/s | 19 kB    00:00
(5/12): httpd-2.4.62-1.amzn2023.x86_64.rpm                      2.5 MB/s | 48 kB    00:00
(6/12): httpd-filesystem-2.4.62-1.amzn2023.noarch.rpm            729 kB/s | 14 kB    00:00
(7/12): httpd-tools-2.4.62-1.amzn2023.x86_64.rpm                 3.6 MB/s | 81 kB    00:00
(8/12): httpd-core-2.4.62-1.amzn2023.x86_64.rpm                  31 MB/s | 1.4 MB    00:00
(9/12): libbrotli-1.0.9-4.amzn2023.0.2.x86_64.rpm                11 MB/s | 315 kB    00:00
(10/12): mailcap-2.1.49-3.amzn2023.0.3.noarch.rpm                1.2 MB/s | 33 kB     00:00
(11/12): mod_http2-2.0.27-1.amzn2023.0.3.x86_64.rpm             6.9 MB/s | 166 kB    00:00
(12/12): mod_lua-2.4.62-1.amzn2023.x86_64.rpm                   3.3 MB/s | 61 kB     00:00
-----
Total                                                                    15 MB/s | 2.3 MB     00:00
Running transaction check
```

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Verifying : apr-1.7.5-1.amzn2023.0.4.x86_64 1/12

Verifying : apr-util-1.6.3-1.amzn2023.0.1.x86_64 2/12

Verifying : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64 3/12

Verifying : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch 4/12

Verifying : httpd-2.4.62-1.amzn2023.x86_64 5/12

Verifying : httpd-core-2.4.62-1.amzn2023.x86_64 6/12

Verifying : httpd-filesystem-2.4.62-1.amzn2023.noarch 7/12

Verifying : httpd-tools-2.4.62-1.amzn2023.x86_64 8/12

Verifying : libbrotli-1.0.9-4.amzn2023.0.2.x86_64 9/12

Verifying : mailcap-2.1.49-3.amzn2023.0.3.noarch 10/12

Verifying : mod_http2-2.0.27-1.amzn2023.0.3.x86_64 11/12

Verifying : mod_lua-2.4.62-1.amzn2023.x86_64 12/12

Installed:

apr-1.7.5-1.amzn2023.0.4.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-2.4.62-1.amzn2023.x86_64 httpd-core-2.4.62-1.amzn2023.x86_64

httpd-filesystem-2.4.62-1.amzn2023.noarch httpd-tools-2.4.62-1.amzn2023.x86_64 libbrotli-1.0.9-4.amzn2023.0.2.x86_64

mailcap-2.1.49-3.amzn2023.0.3.noarch mod_http2-2.0.27-1.amzn2023.0.3.x86_64 mod_lua-2.4.62-1.amzn2023.x86_64

Complete!

[root@ip-172-31-4-35 ~]# systemctl status httpd

-bash: systemctl: command not found

[root@ip-172-31-4-35 ~]# systemctl status httpd o httpd.service - The Apache HTTP Server

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```
Complete!  
[root@ip-172-31-4-35 ~]# systemctl status httpd  
-bash: systemctl: command not found  
[root@ip-172-31-4-35 ~]# systemctl status httpd o httpd.service - The Apache HTTP Server  
-bash: systemctl: command not found  
[root@ip-172-31-4-35 ~]# systemctl status httpd  
o httpd.service - The Apache HTTP Server  
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)  
   Active: inactive (dead)  
     Docs: man:httpd.service(8)  
[root@ip-172-31-4-35 ~]# mkdir temp  
[root@ip-172-31-4-35 ~]# cd temp/  
[root@ip-172-31-4-35 temp]# wget https://www.free-css.com/assets/files/free-css-templates/download/page296/listrace.zip  
--2025-04-07 09:12:42-- https://www.free-css.com/assets/files/free-css-templates/download/page296/listrace.zip  
Resolving www.free-css.com (www.free-css.com)... 217.160.0.242, 2001:8d8:100f:f000::28f  
Connecting to www.free-css.com (www.free-css.com)|217.160.0.242|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 2346106 (2.2M) [application/zip]  
Saving to: 'listrace.zip'  
  
listrace.zip                               100%[=====>] 2.24M  2.13MB/s  in 1.1s  
2025-04-07 09:12:44 (2.13 MB/s) - 'listrace.zip' saved [2346106/2346106]
```

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ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-046f2124db67e8...

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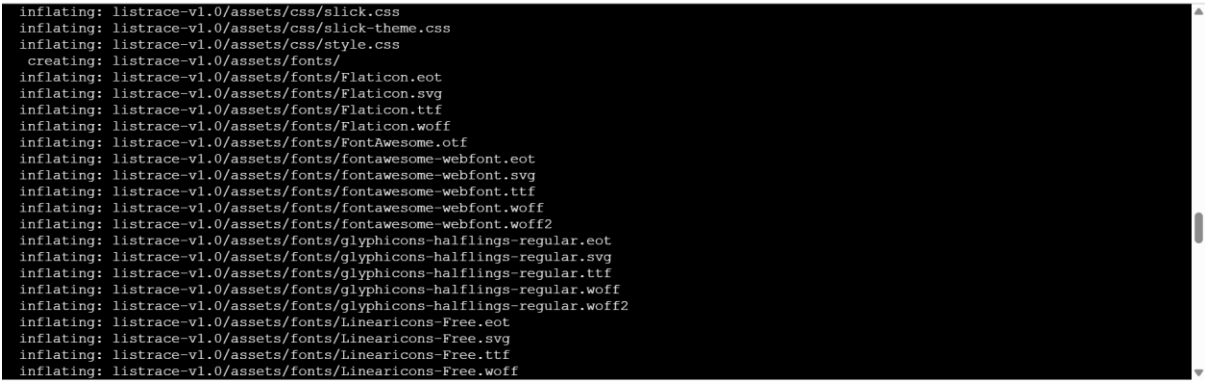
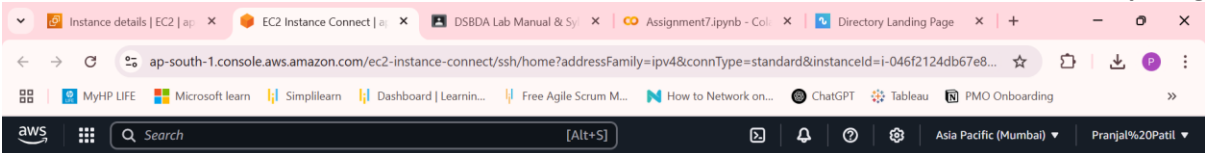
```
2025-04-07 09:12:44 (2.13 MB/s) - 'listrace.zip' saved [2346106/2346106]  
  
[root@ip-172-31-4-35 temp]# ls -lrt  
total 2292  
-rw-r--r--. 1 root root 2346106 Feb  9  2022 listrace.zip  
[root@ip-172-31-4-35 temp]# unzip listrace.zip  
Archive: listrace.zip  
  creating: listrace-v1.0/assets/  
    creating: listrace-v1.0/assets/css/  
  inflating: listrace-v1.0/assets/css/ajax-loader.gif  
  inflating: listrace-v1.0/assets/css/animate.css  
  inflating: listrace-v1.0/assets/css/bootsnv.css  
  inflating: listrace-v1.0/assets/css/bootstrap.min.css  
  inflating: listrace-v1.0/assets/css/flaticon.css  
  inflating: listrace-v1.0/assets/css/font-awesome.min.css  
    creating: listrace-v1.0/assets/css/fonts/  
  inflating: listrace-v1.0/assets/css/fonts/slick.eot  
  inflating: listrace-v1.0/assets/css/fonts/slick.svg  
  inflating: listrace-v1.0/assets/css/fonts/slick.ttf  
  inflating: listrace-v1.0/assets/css/fonts/slick.woff  
  inflating: listrace-v1.0/assets/css/linearicons.css  
  inflating: listrace-v1.0/assets/css/responsive.css
```

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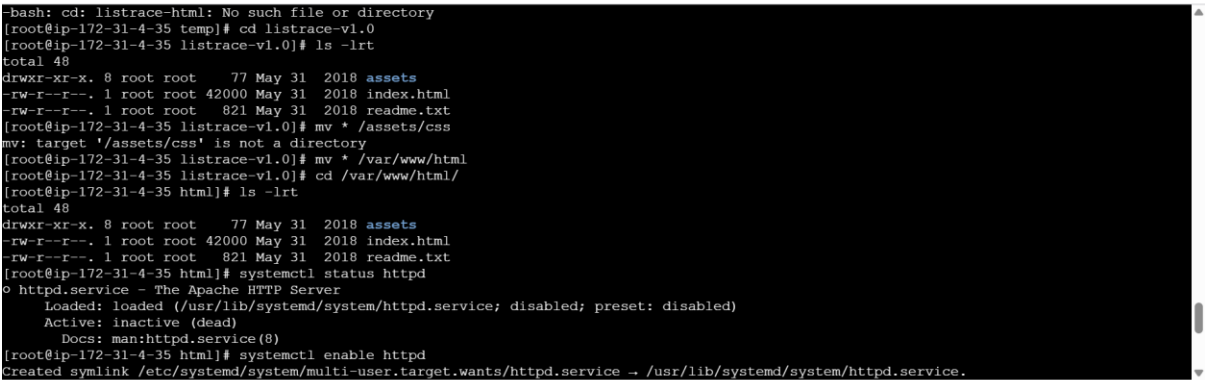
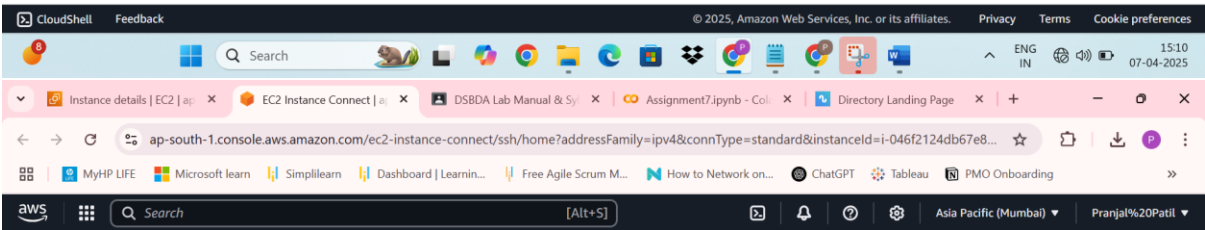
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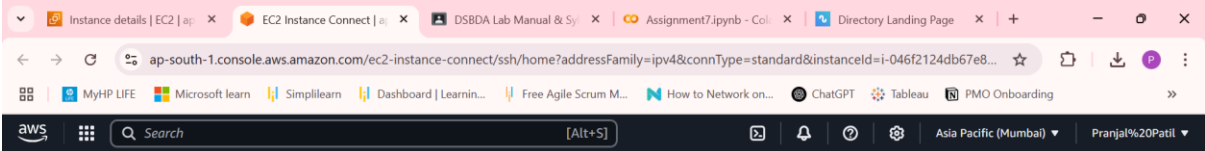
PublicIPs: 13.203.215.39 PrivateIPs: 172.31.4.35



i-046f2124db67e87c0 (Pranjal's Web Server)

PublicIPs: 13.203.215.39 PrivateIPs: 172.31.4.35

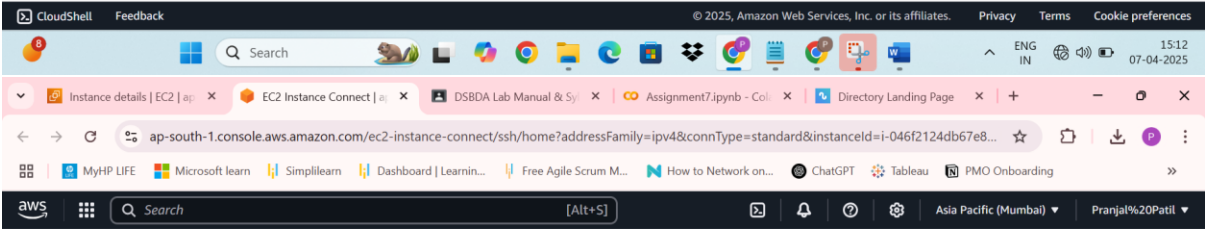




```
creating: listrace-v1.0/assets/img/
inflating: listrace-v1.0/assets/img/controls.png
creating: listrace-v1.0/assets/js/
inflating: listrace-v1.0/assets/js/bootsnav.js
inflating: listrace-v1.0/assets/js/bootstrap.min.js
inflating: listrace-v1.0/assets/js/custom.js
inflating: listrace-v1.0/assets/js/feather.min.js
inflating: listrace-v1.0/assets/js/jquery.counterup.min.js
inflating: listrace-v1.0/assets/js/jquery.js
inflating: listrace-v1.0/assets/js/slick.min.js
inflating: listrace-v1.0/assets/js/waypoints.min.js
creating: listrace-v1.0/assets/logo/
inflating: listrace-v1.0/assets/logo/favicon.png
inflating: listrace-v1.0/index.html
inflating: listrace-v1.0/readme.txt
[root@ip-172-31-4-35 temp]# ls -lrt
total 2292
-rw-r--r--. 1 root root 2346106 Feb  9  2022 listrace.zip
drwxr-xr-x. 3 root root    56 Apr  7 09:13 listrace-v1.0
[root@ip-172-31-4-35 temp]# cd listrace-html
-bash: cd: listrace-html: No such file or directory
[root@ip-172-31-4-35 temp]# cd listrace-v1.0
[root@ip-172-31-4-35 listrace-v1.0]# ls -lrt
```

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PublicIPs: 13.203.215.39 PrivateIPs: 172.31.4.35




```
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-4-35 html]# systemctl start httpd
[root@ip-172-31-4-35 html]# systemctl status httpd
• httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
   Active: active (running) since Mon 2025-04-07 09:22:30 UTC; 34s ago
     Docs: man:httpd.service(8)
   Main PID: 27410 (httpd)
   Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec: 0 B/sec"
   Tasks: 177 (limit: 1111)
   Memory: 13.0M
     CPU: 68ms
   CGroup: /system.slice/httpd.service
           └─27410 /usr/sbin/httpd -DFOREGROUND
             └─27411 /usr/sbin/httpd -DFOREGROUND
               └─27412 /usr/sbin/httpd -DFOREGROUND
                 └─27413 /usr/sbin/httpd -DFOREGROUND
                   └─27414 /usr/sbin/httpd -DFOREGROUND

Apr 07 09:22:30 ip-172-31-4-35.ap-south-1.compute.internal systemd[1]: Starting httpd.service - The Apache HTTP Server...
Apr 07 09:22:30 ip-172-31-4-35.ap-south-1.compute.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
Apr 07 09:22:30 ip-172-31-4-35.ap-south-1.compute.internal httpd[27410]: Server configured, listening on: port 80
[root@ip-172-31-4-35 html]#
```

i-046f2124db67e87c0 (Pranjal's Web Server)

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Output :-

