

Day-4 Assignment.pdf x Instances | EC2 Management

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#instances:sort=instanceState

Services Resource Groups

New EC2 Experience

EC2 Dashboard Events Tags Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public
linux-server-01	i-0d4181821e77925...	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-18-220-59-87.us-e...	18.220.59.87
linux-server-02	i-0e887ae6500f5cb3a	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-18-219-51-158.us...	18.219.51.15

Instance: i-0d4181821e7792536 (linux-server-01) Public DNS: ec2-18-220-59-87.us-east-2.compute.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID i-0d4181821e7792536 Public DNS (IPv4) ec2-18-220-59-87.us-east-2.compute.amazonaws.com

Instance state running IPv4 Public IP 18.220.59.87

Instance type t2.micro IPv6 IPs -

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Created a the linux server 01 instance

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Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public
linux-server-01	i-0d4181821e77925...	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-18-220-59-87.us-e...	18.220.59.87
linux-server-02	i-0e887ae6500f5cb3a	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-18-219-51-158.us...	18.219.51.15

Instance: i-0e887ae6500f5cb3a (linux-server-02) Public DNS: ec2-18-219-51-158.us-east-2.compute.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID i-0e887ae6500f5cb3a Public DNS (IPv4) ec2-18-219-51-158.us-east-2.compute.amazonaws.com

Instance state running IPv4 Public IP 18.219.51.158

Instance type t2.micro IPv6 IPs -

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Created linux server 02 instance

```
Terminal Shell Edit View Window Help
Downloads — ec2-user@ip-172-31-28-74 — ssh -i sidhartha-007.pem ec2-user@ec2-18-220-59-87.us-east-2.compute.amazonaws.com
To update your account to use zsh, please run 'chsh -s /bin/zsh'.
For more details, please visit https://support.apple.com/kb/HT208050.
(base) Siddhartha-MacBook-Air:~$ ssh -i sidhartha-007.pem ec2-user@ec2-18-220-59-87.us-east-2.compute.amazonaws.com
The authenticity of host 'ec2-18-220-59-87.us-east-2.compute.amazonaws.com (18.220.59.87)' can't be established.
ECDSA key fingerprint is SHA256:5VMYt0FskhMpl1tXwE77PwZBMQJ34ZuSwUH3zXDQ8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-18-220-59-87.us-east-2.compute.amazonaws.com,18.220.59.87' (ECDSA)
to the list of known hosts.

_ _ _ _ _
| | | | |
_ _ _ _ _ Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 8 available
Run "sudo yum update" to apply all updates.
-bash: warning: setlocale: LC_CTYPE: cannot change locale (UTF-8): No such file or directory
[ec2-user@ip-172-31-28-74 ~]$ sudo yum update
Failed to set locale, defaulting to C
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
Resolving Dependencies
--> Running transaction check
--> Package amazon-linux-extras.noarch 0:1.6.12-1.amzn2 will be updated
--> Package amazon-linux-extras.noarch 0:1.6.12-1.amzn2 will be an update
--> Package amazon-linux-extras-yum-plugin.noarch 0:1.6.12-1.amzn2 will be updated
--> Package amazon-linux-extras-yum-plugin.noarch 0:1.6.12-1.amzn2 will be an update
--> Package ca-certificates.noarch 0:2019.2.32-76.amzn2.0.3 will be updated
--> Package python.x86_64 0:2.7.18-1.amzn2.0.1 will be an update
--> Package python-devel.x86_64 0:2.7.18-1.amzn2.0.1 will be an update
--> Package python-libs.x86_64 0:2.7.18-1.amzn2.0.1 will be an update
--> Package python2-rsa.noarch 0:3.4.1-1.amzn2.0.1 will be an update
--> Package python2-rsa.noarch 0:3.4.1-1.amzn2.0.1 will be an update
--> Package tzdata.noarch 0:2020a-1.amzn2 will be updated
--> Package tzdata.noarch 0:2020a-1.amzn2 will be an update
--> Finished Dependency Resolution

Dependencies Resolved

Package Arch Version Repository Size
Updating:
amazon-linux-extras noarch 1.6.12-1.amzn2 amzn2-core 36 k
amazon-linux-extras-yum-plugin noarch 1.6.12-1.amzn2 amzn2-core 19 k
ca-certificates noarch 2019.2.32-76.amzn2.0.3 amzn2-core 391 k
python x86_64 2.7.18-1.amzn2.0.1 amzn2-core 92 k
python-devel x86_64 2.7.18-1.amzn2.0.1 amzn2-core 483 k
python-libs x86_64 2.7.18-1.amzn2.0.1 amzn2-core 7.5 M
python2-rsa noarch 3.4.1-1.amzn2.0.1 amzn2-core 68 k
tzdata noarch 2020a-1.amzn2 amzn2-core 479 k

Terminal Shell Edit View Window Help
Downloads — ec2-user@ip-172-31-21-14 — ssh -i sidhartha-007.pem ec2-user@ec2-18-219-51-158.us-east-2.compute.amazonaws.com
To update your account to use zsh, please run 'chsh -s /bin/zsh'.
For more details, please visit https://support.apple.com/kb/HT208050.
(base) Siddhartha-MacBook-Air:~$ ssh -i sidhartha-007.pem ec2-user@ec2-18-219-51-158.us-east-2.compute.amazonaws.com
The authenticity of host 'ec2-18-219-51-158.us-east-2.compute.amazonaws.com (18.219.51.158)' can't be established.
ECDSA key fingerprint is SHA256:dwFDohmJ3j8LXpV5RrQuDN3pJfPKrScxM1pcftXAI.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-18-219-51-158.us-east-2.compute.amazonaws.com,18.219.51.158' (ECDSA)
to the list of known hosts.

_ _ _ _ _
| | | | |
_ _ _ _ _ Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 8 available
Run "sudo yum update" to apply all updates.
-bash: warning: setlocale: LC_CTYPE: cannot change locale (UTF-8): No such file or directory
[ec2-user@ip-172-31-21-14 ~]$ sudo yum update
Failed to set locale, defaulting to C
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
Resolving Dependencies
--> Running transaction check
--> Package amazon-linux-extras.noarch 0:1.6.11-1.amzn2 will be updated
--> Package amazon-linux-extras.noarch 0:1.6.12-1.amzn2 will be an update
--> Package amazon-linux-extras-yum-plugin.noarch 0:1.6.11-1.amzn2 will be updated
--> Package amazon-linux-extras-yum-plugin.noarch 0:1.6.12-1.amzn2 will be an update
--> Package ca-certificates.noarch 0:2019.2.32-76.amzn2.0.2 will be updated
--> Package ca-certificates.noarch 0:2019.2.32-76.amzn2.0.3 will be an update
--> Package python.x86_64 0:2.7.18-1.amzn2.0.1 will be an update
--> Package python-devel.x86_64 0:2.7.18-1.amzn2.0.1 will be an update
--> Package python-libs.x86_64 0:2.7.18-1.amzn2.0.1 will be an update
--> Package python2-rsa.noarch 0:3.4.1-1.amzn2.0.1 will be an update
--> Package python2-rsa.noarch 0:3.4.1-1.amzn2.0.1 will be an update
--> Package tzdata.noarch 0:2019c-1.amzn2 will be updated
--> Package tzdata.noarch 0:2020a-1.amzn2 will be an update
--> Finished Dependency Resolution

Dependencies Resolved

Package Arch Version Repository Size
Updating:
amazon-linux-extras noarch 1.6.12-1.amzn2 amzn2-core 36 k
amazon-linux-extras-yum-plugin noarch 1.6.12-1.amzn2 amzn2-core 19 k
ca-certificates noarch 2019.2.32-76.amzn2.0.3 amzn2-core 391 k
python x86_64 2.7.18-1.amzn2.0.1 amzn2-core 92 k
python-devel x86_64 2.7.18-1.amzn2.0.1 amzn2-core 483 k
python-libs x86_64 2.7.18-1.amzn2.0.1 amzn2-core 7.5 M
python2-rsa noarch 3.4.1-1.amzn2.0.1 amzn2-core 68 k
tzdata noarch 2020a-1.amzn2 amzn2-core 479 k
```

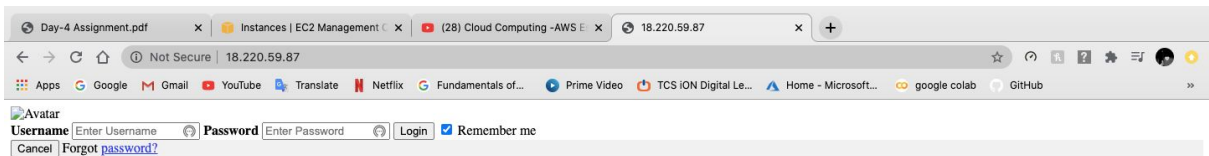
Launched instance -01 and instance-02 in mac terminal

```
Terminal Shell Edit View Window Help
Downloads — root@ip-172-31-28-74:~$ ssh -i sidhartha-007.pem ec2-user@ec2-18-220-59-87.us-east-2.compute.amazonaws.com — 176x63
<input type="password" placeholder="Enter Password" name="psw" required>
<button type="submit">Login</button>
[19:15, 23/08/2020] Sarthak Nhe: <label>
<input type="checkbox" checked="checked" name="remember"> Remember me
</label>
</div>
<div class="container" style="background-color:#f1f1f1">
<button type="button" class="cancelbtn">Cancel</button>
<span class="psw">Forgot <a href="#">password</a></span>
</div>
</form>
[root@ip-172-31-28-74 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-28-74 html]# vi index.html
[ec2-user@ip-172-31-28-74 html]# more index.html
<form action="action_page.php" method="post">
<div class="imgcontainer">

</div>
<div class="container">
<label for="uname"><b>Username</b></label>
<input type="text" placeholder="Enter Username" name="uname" required>
<label for="psw"><b>Password</b></label>
<input type="password" placeholder="Enter Password" name="psw" required>
<button type="submit">Login</button>
[19:15, 23/08/2020] Sarthak Nhe: <label>
<input type="checkbox" checked="checked" name="remember"> Remember me
</label>
</div>
<div class="container" style="background-color:#f1f1f1">
<button type="button" class="cancelbtn">Cancel</button>
<span class="psw">Forgot <a href="#">password</a></span>
</div>
</form>
[root@ip-172-31-28-74 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[ec2-user@ip-172-31-28-74 html]#

Terminal Shell Edit View Window Help
Downloads — [ec2-user@ip-172-31-21-14 ~]$ cd /var/www/html
-bash: cd: /var/www/html: No such file or directory
[ec2-user@ip-172-31-21-14 ~]$ cd /var/www/html
-bash: cd: /var/www/html: No such file or directory
[ec2-user@ip-172-31-21-14 ~]$
```

Successfully uploaded the code and started httpd service for instance-01 (ip-is written tab menu in ss)



Successfully tested the loading of instance-01

```
Terminal Shell Edit View Window Help
Downloads — root@ip-172-31-21-14:/var/www/html — ssh -i siddhartha-007.pem ec2-user@ec2-18-219-51-158.us-east-2.compute.amazonaws.com — 202x63

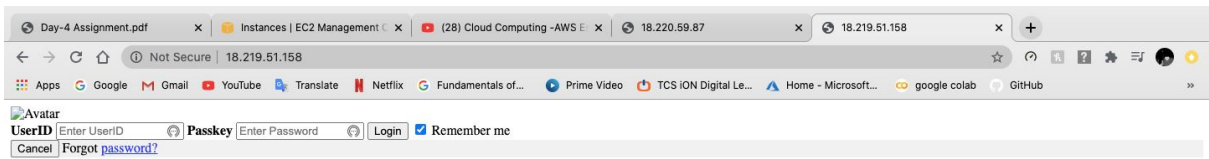
Running transaction
Installing : apr-1.6.3-5.amzn2.0.2.x86_64 1/9
Installing : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 2/9
Installing : apr-util-1.6.1-5.amzn2.0.2.x86_64 3/9
Installing : httpd-tools-2.4.43-1.amzn2.x86_64 4/9
Installing : generic-logos-httpd-18.0.0-4.amzn2.noarch 5/9
Installing : mailcap-2.1.41-2.amzn2.noarch 6/9
Installing : httpd filesystem-2.4.43-1.amzn2.noarch 7/9
Installing : mod_http2-1.15.3-2.amzn2.x86_64 8/9
Installing : httpd-2.4.43-1.amzn2.x86_64 9/9
Verifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 1/9
Verifying : apr-util-1.6.1-5.amzn2.0.2.x86_64 2/9
Verifying : httpd-2.4.43-1.amzn2.x86_64 3/9
Verifying : mod_http2-1.15.3-2.amzn2.x86_64 4/9
Verifying : httpd filesystem-2.4.43-1.amzn2.noarch 5/9
Verifying : apr-1.6.3-5.amzn2.0.2.x86_64 6/9
Verifying : mailcap-2.1.41-2.amzn2.noarch 7/9
Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch 8/9
Verifying : httpd-tools-2.4.43-1.amzn2.x86_64 9/9

Installed:
httpd.x86_64 0:2.4.43-1.amzn2

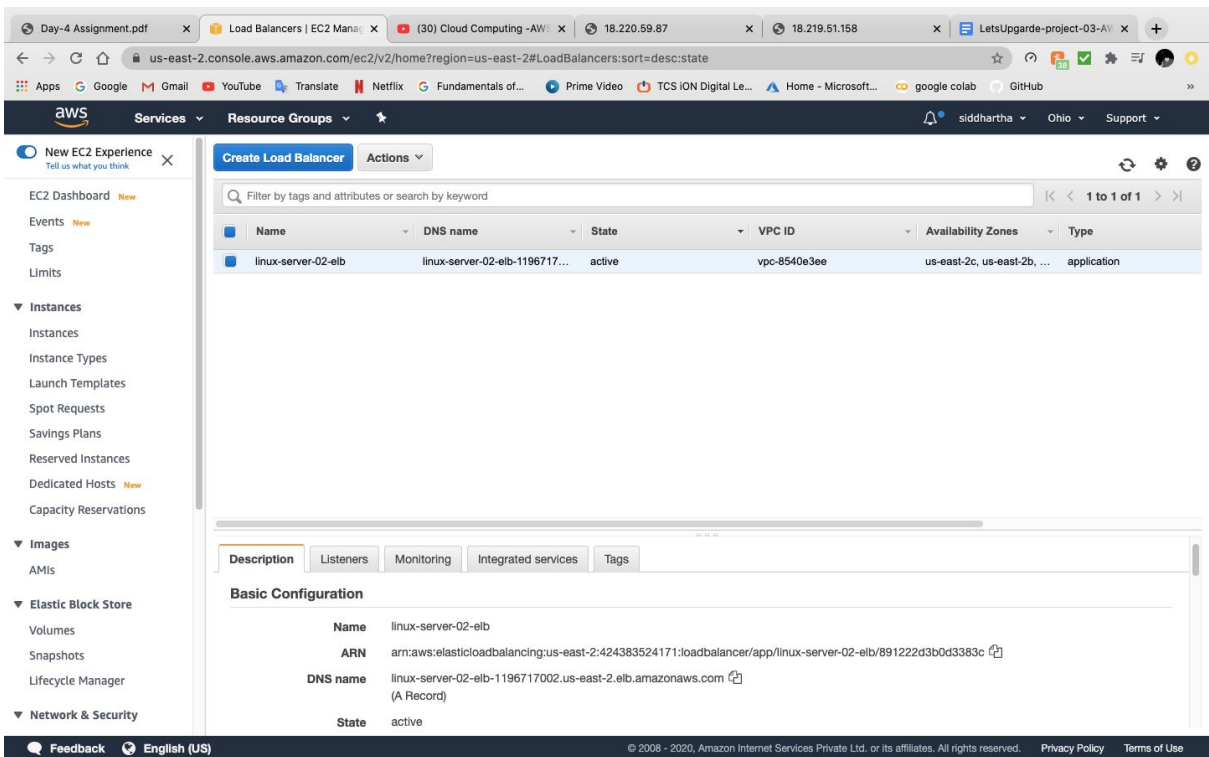
Dependency Installed:
apr.x86_64 0:1.6.3-5.amzn2.0.2          apr-util.x86_64 0:1.6.1-5.amzn2.0.2
apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 generic-logos-httpd.noarch 0:18.0.0-4.amzn2
httpd filesystem.noarch 0:2.4.43-1.amzn2 httpd-tools.x86_64 0:2.4.43-1.amzn2
mailcap.noarch 0:2.1.41-2.amzn2          mod_http2.x86_64 0:1.15.3-2.amzn2

Complete!
[root@ip-172-31-21-14 ec2-user]# cd /var/www/html
[root@ip-172-31-21-14 html]# pwd
/var/www/html
[root@ip-172-31-21-14 html]# vi index.html
[root@ip-172-31-21-14 html]# more index.html
<form action="action_page.php" method="post">
  <div class="imgcontainer">
    
  </div>
  <div class="container">
    <label for="uname"><b>Username</b></label>
    <input type="text" placeholder="Enter UserID" name="uname" required>
    <label for="psw"><b>Passkey</b></label>
    <input type="password" placeholder="Enter Password" name="psw" required>
    <button type="submit">Login</button>
  </div>
  <input type="checkbox" checked="checked" name="remember"> Remember me
  </div>
  <div class="container" style="background-color:#f1f1f1">
    <button type="button" class="cancelbtn">Cancel</button>
    <span class="psw">Forgot <a href="#">password</a></span>
  </div>
</form>
[root@ip-172-31-21-14 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-21-14 html]# vi index.html
[root@ip-172-31-21-14 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-21-14 html]#
```

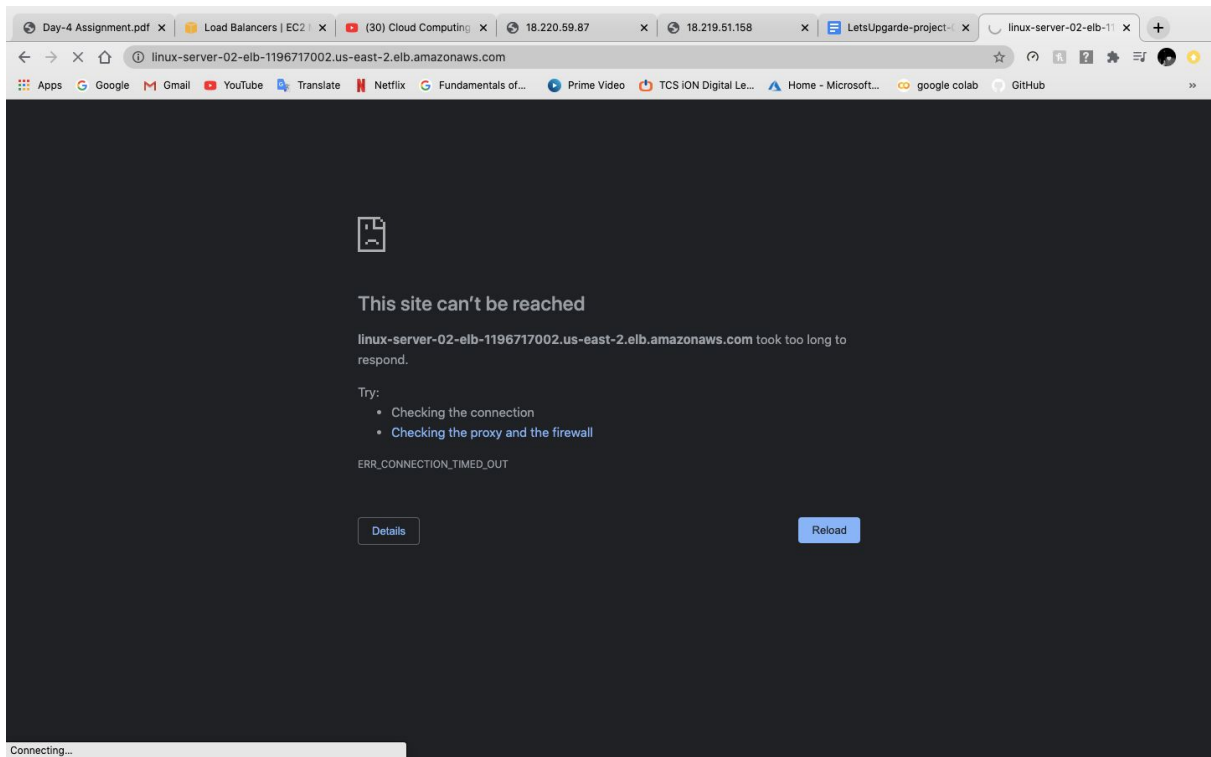
Successfully uploaded the code and started the httpd service for instance-02 (ip is written in top tab menu)



Successfully tested the working of the second instance-02



Created a load balancer for 2a,2b,2c zone



Load balancer not activated so the page is not loading