AWS Project: -7

Project Date: – 28.04.2021

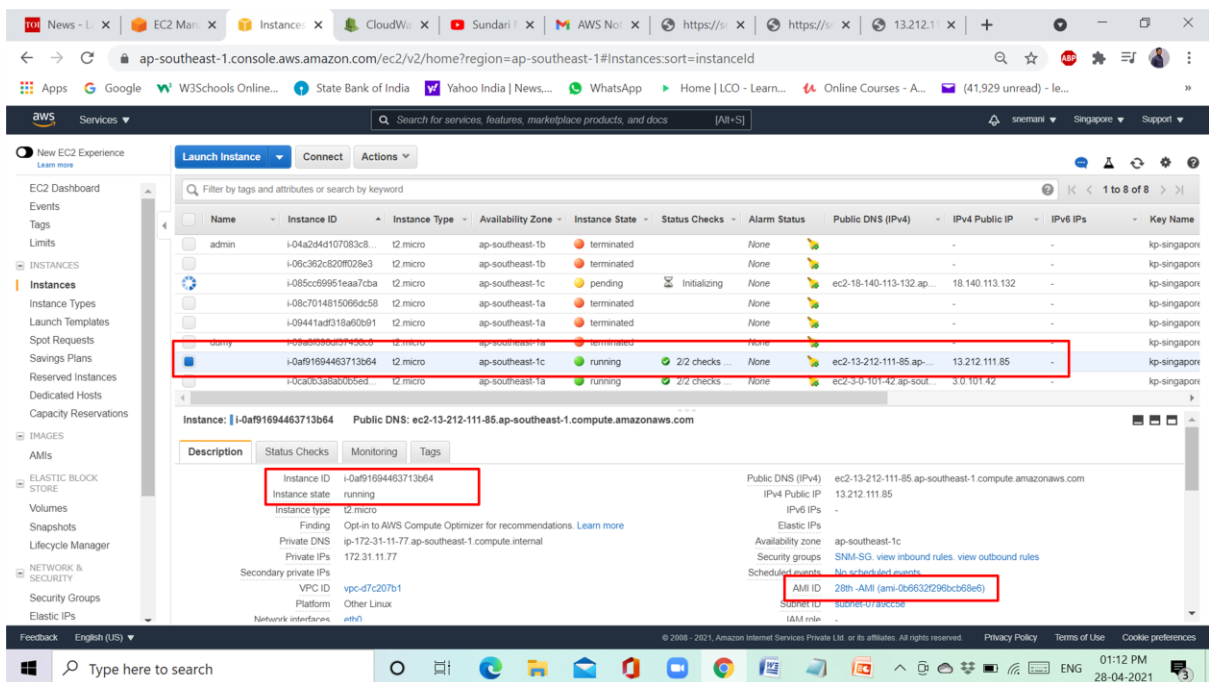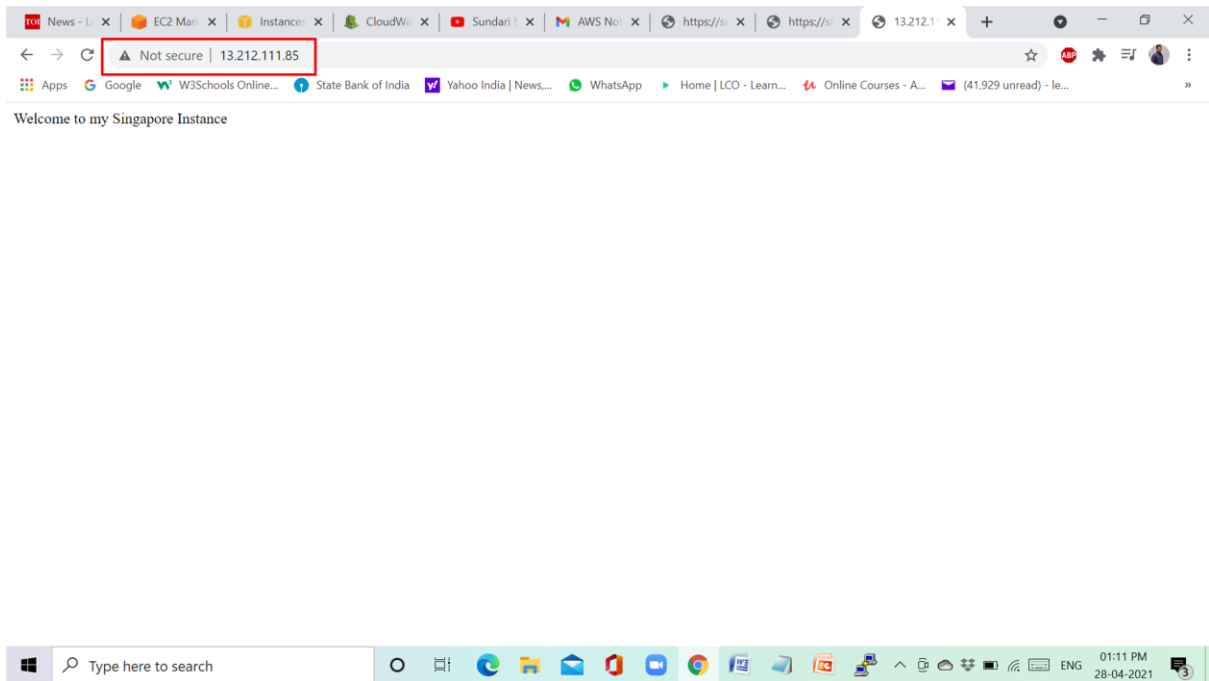**Prepared by: – Sarveswara Sarma Nemani**

Q:- Create **Auto Scaling** with **CLB** for one public instance and check
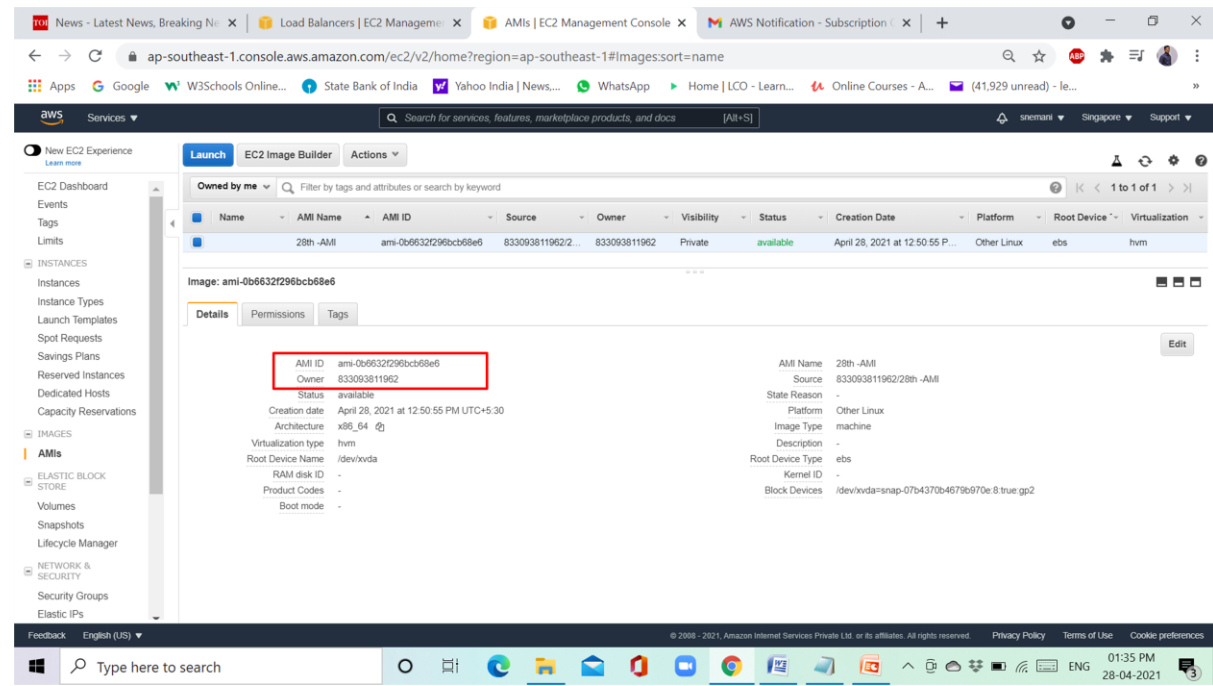
      i. High availability   (if instance down, create one more instance asap)

      ii. Increment elasticity (increase the load using stress, increase load to 100% and check another instance created or not)

Sol:

Welcome to my Singapore Instance

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01:11 PM
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ap-southeast-1.console.aws.amazon.com/ec2/v2/home?region=ap-southeast-1#Instances:sort=instanceId

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Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Key Name
admin	i-04a2d4d107083c8...	t2.micro	ap-southeast-1b	terminated		None		-	-	kp-singapore
	i-06c362c820ff028e3	t2.micro	ap-southeast-1b	terminated		None		-	-	kp-singapore
	i-085cc69951eaa7cba	t2.micro	ap-southeast-1c	pending	Initializing	None	ec2-18-140-113-132.ap	18.140.113.132	-	kp-singapore
	i-08c7014815066dc58	t2.micro	ap-southeast-1a	terminated		None		-	-	kp-singapore
	i-09441adf318a60b91	t2.micro	ap-southeast-1a	terminated		None		-	-	kp-singapore
dummy	i-09a0b666d9f456c6	t2.micro	ap-southeast-1a	terminated		None				
	i-0af91694463713b64	t2.micro	ap-southeast-1c	running	2/2 checks ...	None	ec2-13-212-111-85.ap-...	13.212.111.85	-	kp-singapore
	i-0ca0b3a8ab0b5ed...	t2.micro	ap-southeast-1a	running	2/2 checks ...	None	ec2-3-0-101-42.ap-sout...	3.0.101.42	-	kp-singapore

Instance: i-0af91694463713b64   Public DNS: ec2-13-212-111-85.ap-southeast-1.compute.amazonaws.com

Description   Status Checks   Monitoring   Tags

Instance ID   i-0af91694463713b64
Instance state   running
Instance type   t2.micro
Finding   Opt-in to AWS Compute Optimizer for recommendations. Learn more
Private DNS   ip-172-31-11-77.ap-southeast-1.compute.internal
Private IPs   172.31.11.77
Secondary private IPs
VPC ID   vpc-d7c207b1
Platform   Other Linux
Network interfaces   eth0

Public DNS (IPv4)   ec2-13-212-111-85.ap-southeast-1.compute.amazonaws.com
IPv4 Public IP   13.212.111.85
IPv6 IPs   -
Elastic IPs
Availability zone   ap-southeast-1c
Security groups   SNM-SG. view inbound rules. view outbound rules
Scheduled events   No scheduled events
AMI ID   28th -AMI (ami-0b6632f296bcb68e6)
Subnet ID   subnet-07a9cc5e
IAM role

Feedback   English (US) ▾

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28-04-2021

Terminal Logs: -

login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Wed Apr 28 07:19:00 2021 from 136.185.122.1

```
 __|  __|_  )
 _|  (     /   Amazon Linux 2 AMI
 ___|\___|___|
```

https://aws.amazon.com/amazon-linux-2/
1 package(s) needed for security, out of 15 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-40-50 ~]$ sudo -i
[root@ip-172-31-40-50 ~]# amazon-linux-extras install epel -y
Installing epel-release
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Cleaning repos: amzn2-core amzn2extra-docker amzn2extra-epel
12 metadata files removed
4 sqlite files removed
0 metadata files removed
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB   00:00
amzn2extra-docker | 3.0 kB   00:00
amzn2extra-epel | 3.0 kB   00:00
(1/7): amzn2-core/2/x86_64/group_gz | 2.5 kB   00:00
(2/7): amzn2-core/2/x86_64/updateinfo | 367 kB   00:00
(3/7): amzn2extra-epel/2/x86_64/primary_db | 1.8 kB   00:00
(4/7): amzn2extra-docker/2/x86_64/updateinfo | 76 B   00:00
(5/7): amzn2extra-epel/2/x86_64/updateinfo | 76 B   00:00
(6/7): amzn2extra-docker/2/x86_64/primary_db | 76 kB   00:00
(7/7): amzn2-core/2/x86_64/primary_db | 52 MB   00:01
Resolving Dependencies
--> Running transaction check
```

---> Package epel-release.noarch 0:7-11 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

======================================================================
===============
 Package         Arch        Version     Repository         Size
======================================================================
===============
Installing:
 epel-release      noarch      7-11       amzn2extra-epel      15 k

Transaction Summary
======================================================================
===============
Install  1 Package

Total download size: 15 k
Installed size: 24 k
Downloading packages:
epel-release-7-11.noarch.rpm                | 15 kB   00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : epel-release-7-11.noarch                  1/1
  Verifying  : epel-release-7-11.noarch                  1/1

Installed:
  epel-release.noarch 0:7-11

Complete!
 0  ansible2          available   \
     [ =2.4.2  =2.4.6  =2.8  =stable ]
 2  httpd_modules        available    [ =1.0  =stable ]
 3  memcached1.5         available   \
     [ =1.5.1  =1.5.16  =1.5.17 ]
 5  postgresql9.6        available   \
     [ =9.6.6  =9.6.8  =stable ]
 6  postgresql10         available    [ =10  =stable ]
 8  redis4.0          available   \
     [ =4.0.5  =4.0.10  =stable ]
 9  R3.4             available    [ =3.4.3  =stable ]
10  rust1            available   \
     [ =1.22.1  =1.26.0  =1.26.1  =1.27.2  =1.31.0  =1.38.0
       =stable ]
11  vim              available    [ =8.0  =stable ]
15  php7.2           available   \
     [ =7.2.0  =7.2.4  =7.2.5  =7.2.8  =7.2.11  =7.2.13  =7.2.14
       =7.2.16  =7.2.17  =7.2.19  =7.2.21  =7.2.22  =7.2.23
       =7.2.24  =7.2.26  =stable ]
17  lamp-mariadb10.2-php7.2  available   \
     [ =10.2.10_7.2.0  =10.2.10_7.2.4  =10.2.10_7.2.5

```
       =10.2.10_7.2.8  =10.2.10_7.2.11  =10.2.10_7.2.13
       =10.2.10_7.2.14  =10.2.10_7.2.16  =10.2.10_7.2.17
       =10.2.10_7.2.19  =10.2.10_7.2.22  =10.2.10_7.2.23
       =10.2.10_7.2.24  =stable ]
18  libreoffice         available    \
    [ =5.0.6.2_15  =5.3.6.1  =stable ]
19  gimp                available    [ =2.8.22 ]
20  docker=latest       enabled      \
    [ =17.12.1  =18.03.1  =18.06.1  =18.09.9  =stable ]
21  mate-desktop1.x     available    \
    [ =1.19.0  =1.20.0  =stable ]
22  GraphicsMagick1.3   available    \
    [ =1.3.29  =1.3.32  =1.3.34  =stable ]
23  tomcat8.5           available    \
    [ =8.5.31  =8.5.32  =8.5.38  =8.5.40  =8.5.42  =8.5.50
      =stable ]
24  epel=latest         enabled      [ =7.11  =stable ]
25  testing             available    [ =1.0  =stable ]
26  ecs                 available    [ =stable ]
27  corretto8           available    \
    [ =1.8.0_192  =1.8.0_202  =1.8.0_212  =1.8.0_222  =1.8.0_232
      =1.8.0_242  =stable ]
28  firecracker         available    [ =0.11  =stable ]
29  golang1.11          available    \
    [ =1.11.3  =1.11.11  =1.11.13  =stable ]
30  squid4              available    [ =4  =stable ]
31  php7.3              available    \
    [ =7.3.2  =7.3.3  =7.3.4  =7.3.6  =7.3.8  =7.3.9  =7.3.10
      =7.3.11  =7.3.13  =stable ]
32  lustre2.10          available    \
    [ =2.10.5  =2.10.8  =stable ]
33  java-openjdk11      available    [ =11  =stable ]
34  lynis               available    [ =stable ]
35  kernel-ng           available    [ =stable ]
36  BCC                 available    [ =0.x  =stable ]
37  mono                available    [ =5.x  =stable ]
38  nginx1              available    [ =stable ]
39  ruby2.6             available    [ =2.6  =stable ]
40  mock                available    [ =stable ]
41  postgresql11        available    [ =11  =stable ]
42  php7.4              available    [ =stable ]
43  livepatch           available    [ =stable ]
44  python3.8           available    [ =stable ]
45  haproxy2            available    [ =stable ]
46  collectd            available    [ =stable ]
47  aws-nitro-enclaves-cli  available    [ =stable ]
48  R4                  available    [ =stable ]
49  kernel-5.4          available    [ =stable ]
50  selinux-ng          available    [ =stable ]
51  php8.0              available    [ =stable ]
52  tomcat9             available    [ =stable ]
53  unbound1.13         available    [ =stable ]
54  mariadb10.5         available    [ =stable ]
55  kernel-5.10         available    [ =stable ]
```

```
[root@ip-172-31-40-50 ~]#
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