Nguyễn Thái Dương duongtn1512@gmil.com

[ec2-user@ip-10-0-1-107 ~]\$

####_

Connection to 18.233.10.7 closed.

PS D:\Devops_FPT_Foudations\AWS> ssh -i "D:\Devops_FPT_Foudations\AWS\ng inx.pem" ec2-user@18.233.10.7

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

Amazon Linux 2023

Last login: Mon Jul 31 12:35:55 2023 from 116.96.47.243

1. create 3 instance with nginx application can expose/access via port 80 (public IP)

✓ Nginx 🔏	i-061da0f499	1cf98a6	⊘ Runi	ning ℚQ	t2.micro		No alarms 🕂	us-east-1a
Nginx	i-061023815b	e397401	⊘ Runi	ning ⊕Q	t2.micro		No alarms 🕂	us-east-1a
Nginx	i-08dddd1158	Bed3e279	⊘ Runi	ning ⊕Q	t2.micro		No alarms 🕂	us-east-1a
44.201.219.240	-	-	d	laun	nginx	2023/07,	/31 19:27 GMT+7	
18.233.10.7			d	laun	nginx	2023/07	/31 19:27 GMT+7	
54.237.225.223			d	laun	nginx	2023/07	/31 19:27 GMT+7	
~~ _####\ ~~ \###	mazon Linux 2023 ttps://aws.amazon.	com/linux/am		2023	inx.pem" ec2- The authentic blished. ECDSA key fin JB8. Are you sure Warning: Perm hosts. #_ "################################	user@54.237.225.22: ity of host '54.23: gerprint is SHA256 you want to continu anently added '54.2 Amazon Linu	7.225.223 (54.237.225.223)' (i9kvl4gMv2ybriuXx8E3VTAfTTY) ue connecting (yes/no/[finger 237.225.223' (ECDSA) to the 1	can't be est //Www.cORpinW rprint])? ye List of know

```
Process: 27412 ExecStartPre=/usr/bin/rm -f /run/nginx.pid (code=exi

    nginx.service - The nginx HTTP and reverse proxy server

    nginx.service - The nginx HTTP and reverse proxy server

      Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; pr
Active: active (running) since Mon 2023-07-31 12:43:54 UTC; 1min 2
                                                                                              Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; pr
                                                                                             Active: active (running) since Mon 2023-07-31 12:47:09 UTC; 7s ago
    Main PID: 27258 (nginx)
                                                                                             Process: 27412 ExecStartPre=/usr/bin/rm -f /run/nginx.pid (code=exi
       Tasks: 2 (limit: 1114)
                                                                                             Process: 27413 ExecStartPre=/usr/sbin/nginx -t (code=exited, status
      Memory: 2.2M
                                                                                             Process: 27414 ExecStart=/usr/sbin/nginx (code=exited, status=0/SUC
        CPU: 56ms
                                                                                           Main PID: 27415 (nginx)
      CGroup: /system.slice/nginx.service
                                                                                               Tasks: 2 (limit: 1114)
               -27258 "nginx: master process /usr/sbin/nginx"
-27259 "nginx: worker process"
                                                                                              Memory: 2.2M
                                                                                                CPU: 56ms
                                                                                              CGroup: /system.slice/nginx.service
 Jul 31 12:43:53 ip-10-0-5-70.ec2.internal systemd[1]: Starting nginx.se>
                                                                                                       -27415 "nginx: master process /usr/sbin/nginx"
-27416 "nginx: worker process"
 Jul 31 12:43:53 ip-10-0-5-70.ec2.internal nginx[27256]: nginx: the conf
 Jul 31 12:43:53 ip-10-0-5-70.ec2.internal nginx[27256]: nginx: configur
 Jul 31 12:43:54 ip-10-0-5-70.ec2.internal systemd[1]: Started nginx.ser
                                                                                         Jul 31 12:47:08 ip-10-0-9-203.ec2.internal systemd[1]: Starting nginx.s
                                                                                        Jul 31 12:47:09 ip-10-0-9-203.ec2.internal nginx[27413]: nginx: the con
 lines 1-15/15 (END)
                                                                                        Jul 31 12:47:09 ip-10-0-9-203.ec2.internal nginx[27413]: nginx: configu
≥ ssh
                                                                                        Jul 31 12:47:09 ip-10-0-9-203.ec2.internal systemd[1]: Started nginx.se

    nginx.service - The nginx HTTP and reverse proxy server

      Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; pr
      Active: active (running) since Mon 2023-07-31 12:46:22 UTC; 9s ago
     Process: 27348 ExecStartPre=/usr/bin/rm -f /run/nginx.pid (code=exi
     Process: 27349 ExecStartPre=/usr/sbin/nginx -t (code=exited, status
     Process: 27350 ExecStart=/usr/sbin/nginx (code=exited, status=0/SUC)
    Main PID: 27351 (nginx)
       Tasks: 2 (limit: 1114)
      Memory: 2.2M
        CPU: 57ms
      CGroup: /system.slice/nginx.service
               _27351 "nginx: master process /usr/sbin/nginx"
               27352 "nginx: worker process"
```

http://44.201.219.240

Welcome to nginx!

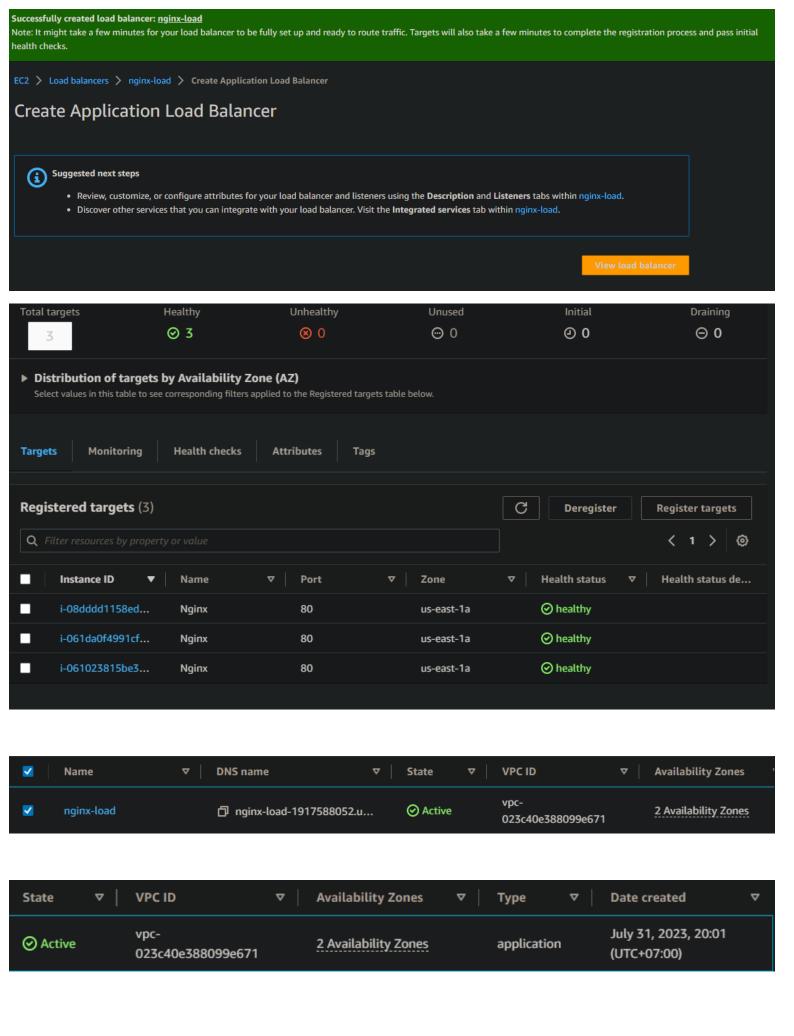
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org. Commercial support is available at nginx.com.

Thank you for using nginx.

Security group rule ID	Port range	Protocol	Source
sgr-05bdb9057a229b744	80	TCP	0.0.0.0/0
sgr-04d1c8bac9c393d31	22	ТСР	116.96.47.243/32
sgr-0beddec4f133ac428	80	ТСР	::/0

2. create an application load balacing and a taget group with 3 exist instance config heath check and check application via ALB dns



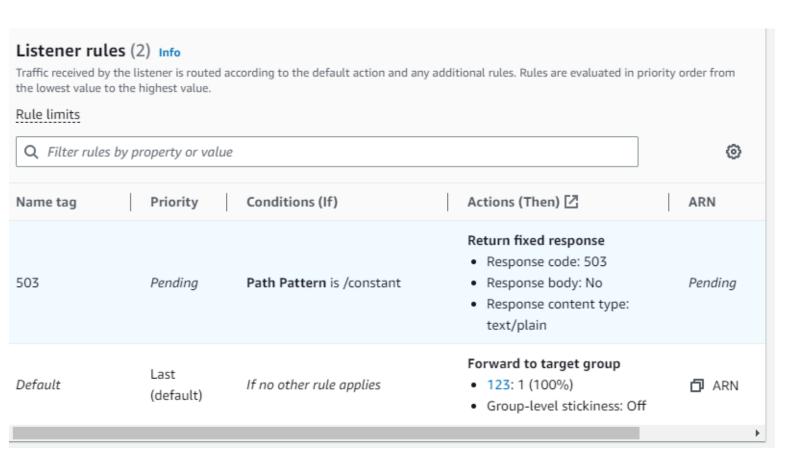
Welcome to nginx!

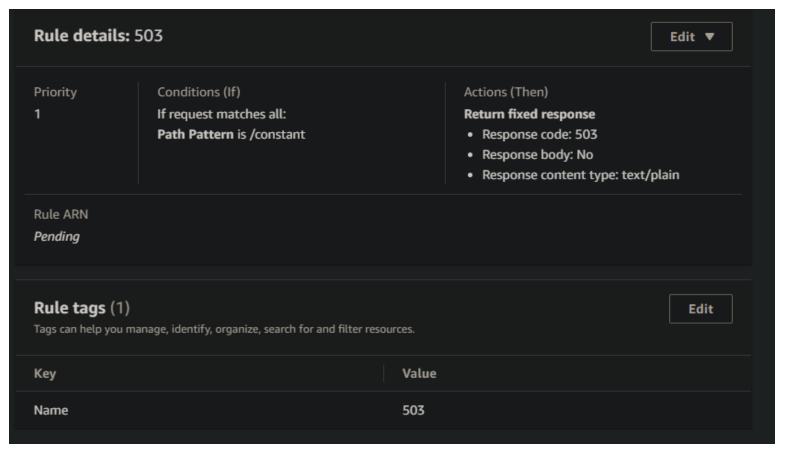
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

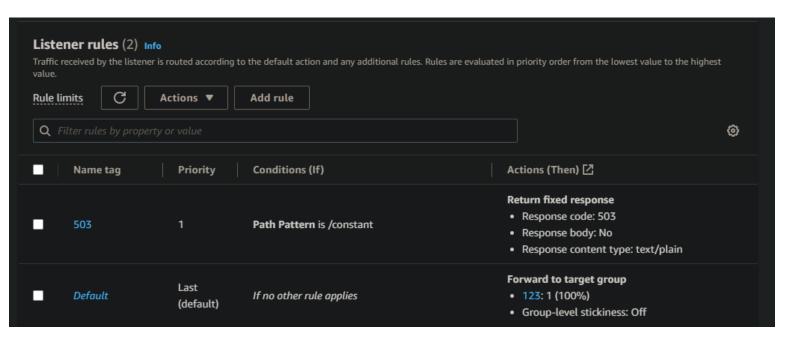
For online documentation and support please refer to nginx.org. Commercial support is available at nginx.com.

Thank you for using nginx.

3. add new rule in target group with path: /constant will response 503 error

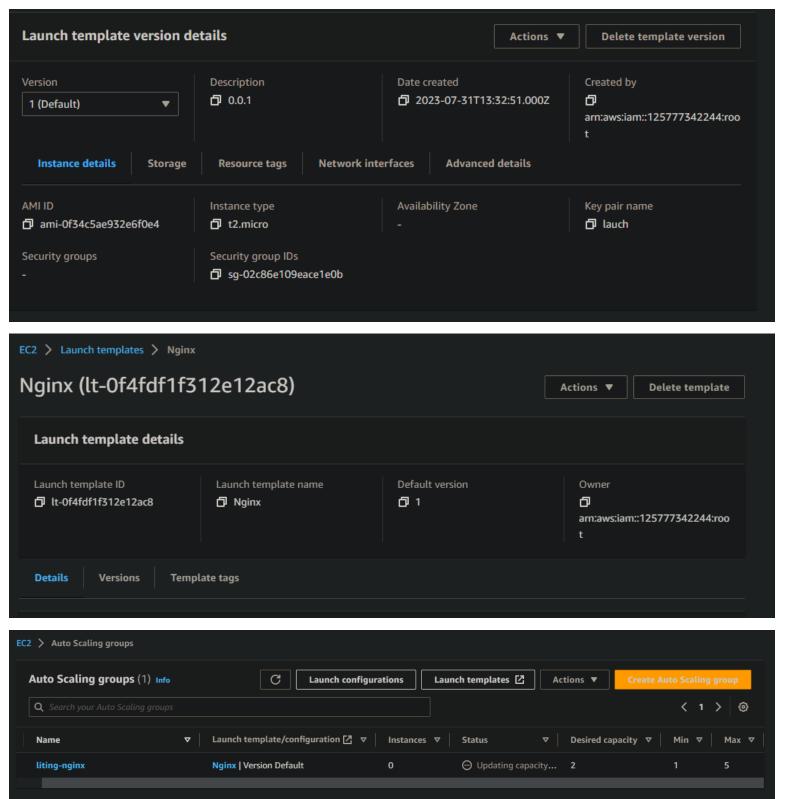




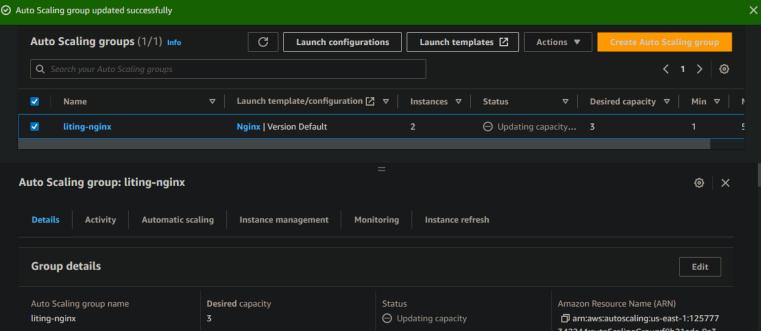


4. creat a lauch configuration / launch template and an Auto Scaling Group with min/desired/max (1/3/5).

Attach created ALB with exist ALB







5. delete one instance in ASG and check if new instance will launched

Instance ID	Instance state	▼	Instance type	▼	Status check	Alarm state	us	Availability Zone	▽	▽	Public IP
i-061da0f4991cf98a6	⊘ Running	ඔ Q	t2.micro		② 2/2 checks passed	No alarms	+	us-east-1a		e	44.201.21
i-061023815be397401		ඔ Q	t2.micro		2/2 checks passed	No alarms	+	us-east-1a		e	18.233.10
i-08dddd1158ed3e279		ඔ Q	t2.micro		2/2 checks passed	No alarms	+	us-east-1a		e	54.237.22
i-0856d4106a019db37		ඔ Q	t2.micro		② 2/2 checks passed	No alarms	+	us-east-1a			-
i-05f5cc961f8516345		ඔ Q	t2.micro		② 2/2 checks passed	No alarms	+	us-east-1a			_
i-04427d2f35655d447		ΘQ	t2.micro		Initializing	No alarms	+	us-east-1a			_

	1			1
-	Name	Instance ID	Instance state	Instance type
	Nginx	i-061da0f4991cf98a6	⊗ Running	t2.micro
	Nginx	i-061023815be397401	⊗ Running	t2.micro
✓	Nginx	i-08dddd1158ed3e279	② Shutting-dow	t2.micro
		i-0856d4106a019db37	⊗ Running	t2.micro
		i-05f5cc961f8516345	⊗ Running ⊕ ♀	t2.micro

Activity hist	ory (3)		(3
Q Filter activi			< 1 >	0
Status	Description	Cause	Start time ▼	End
Successful	Launching a new EC2 instance: i- 04427d2f35655d447	At 2023-07-31T13:38:10Z a user request update of AutoScalingGroup constraints to min: 1, max: 5, desired: 3 changing the desired capacity from 2 to 3. At 2023-07-31T13:38:16Z an instance was started in response to a difference between desired and actual capacity, increasing the capacity from 2 to 3.	2023 July 31, 08:38:18 PM +07:00	2023 31, C PM +
Successful	Launching a new EC2 instance: i- 05f5cc961f8516345	At 2023-07-31T13:36:48Z a user request created an AutoScalingGroup changing the desired capacity from 0 to 2. At 2023-07-31T13:37:03Z an instance was started in response to a difference between desired and actual capacity, increasing the capacity from 0 to 2.	2023 July 31, 08:37:05 PM +07:00	2023 31, C PM +
Successful	Launching a new EC2 instance: i- 0856d4106a019db37	At 2023-07-31T13:36:48Z a user request created an AutoScalingGroup changing the desired capacity from 0 to 2. At 2023-07-31T13:37:03Z an instance was started in response to a difference between desired and actual capacity, increasing the capacity from 0 to 2.	2023 July 31, 08:37:05 PM +07:00	2023 31, C PM +

Name	▼	Instance ID	Instance state		Instance type	▼
Nginx		i-061da0f4991cf98a6	Running	ඔ Q	t2.micro	
Nginx		i-061023815be397401	Running	œΘ	t2.micro	
-		i-0856d4106a019db37	Running	ΘQ	t2.micro	
-		i-05f5cc961f8516345	Running	ම ල	t2.micro	
_		i-04427d2f35655d447	⊘ Running	ΘQ	t2.micro	