

Slack | week-2-lab | FCI - PTIT | Kiểm tra kết nối: Làm việc với Amazon | Instances | EC2 Management Console | (2) Facebook

ap-southeast-1.console.aws.amazon.com/ec2/v2/home?region=ap-southeast-1#Instances:

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EC2 Global View
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Tags
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AMI

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Command Prompt

Microsoft Windows [Version 10.0.19042.1348]
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C:\Users\ADMIN>D:\>cd AWS\lab_week2

D:\AWS\lab_week2>D:\AWS\lab_week2>pscp -i asg-keypair.ppk asg-keypair.pem ec2-user@18.141.182.230:/home/ec2-user/asg-keypair.ppk asg-keypair.pem 1 kB | 1.7 kB/s | ETA: 00:00:00 | 100%

D:\AWS\lab_week2>1. Giỏ:\AWS\lab_week2>

2. Tu

3. Th

3.1

3.2

3.3

3.4

3.5

3.6

4. Cấu hình Site-to-Site VPN

5. Dọn dẹp tài nguyên

MORE

chmod 400 asg-keypair.pem

5. ssh tới máy chủ EC2 Private và thực hiện ping test tới amazon.com.

login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Sat Dec 4 15:57:14 2021 from 1.52.36.119

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-10-1-8 ~]\$ ping 10.10.4.100
PING 10.10.4.100 (10.10.4.100) 56(84) bytes of data.
64 bytes from 10.10.4.100: icmp_seq=1 ttl=64 time=1.82 ms
64 bytes from 10.10.4.100: icmp_seq=2 ttl=64 time=3.30 ms
64 bytes from 10.10.4.100: icmp_seq=3 ttl=64 time=1.45 ms
64 bytes from 10.10.4.100: icmp_seq=4 ttl=64 time=3.74 ms
64 bytes from 10.10.4.100: icmp_seq=5 ttl=64 time=3.97 ms
64 bytes from 10.10.4.100: icmp_seq=6 ttl=64 time=3.47 ms

Instance state Actions Launch instances

Instance type Status check Alarm status Availability Zone

Monitoring Tags

Public IPv4 address Private IPv4 addresses VPC ID
- 10.10.4.100 vpc-01e9cb77ad63c950f (ASG)

Public IPv4 DNS Private IP DNS name (IPv4 only) Subnet ID

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ec2-user@ip-10-10-4-100:~\$

```
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Sat Dec 4 15:58:27 2021 from 1.52.36.119
```

Amazon Linux 2 AMI

1. Giới thiệu

2. Tutorial

3. Thực hành

3.1 Tạo

3.2 Tạo

3.3 Tạo

3.4 Tạo

3.5 Kiểm tra kết nối

3.6 NAT GW

4. Cấu hình Site-to-Site VPN

5. Dọn dẹp tài nguyên

MORE

3. EC2 Private sẽ không có public IP address vì chúng ta không gán cho máy chủ này public IP. Để có thể ssh vào EC2 Private, chúng ta sẽ thực hiện kết nối ssh từ EC2 Public thông qua địa chỉ private IP address của EC2 Private

- Download công cụ **pscp** vào cùng thư mục chứa file **asg-keypair.ppk** để thực hiện copy file ***asg-keypair.pem** từ máy của chúng ta vào EC2 Public.

pscp tool

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ec2-user@ip-10-10-4-100:~\$

```
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Sat Dec 4 16:10:07 2021 from 1.52.36.119
```

Amazon Linux 2 AMI

12 pac

End

End

NAT

Peer

Net

3 pack

Se

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Se

ec2-u

64 bytes from s3-console-us-standard.console.aws.amazon.com (205.251.242.103): 1

cmp_seq=1 ttl=220 time=211 ms

64 bytes from s3-console-us-standard.console.aws.amazon.com (205.251.242.103): 1

cmp_seq=2 ttl=220 time=211 ms

23 time=212 ms

23 time=211 ms

REACHABILITY

Reachability

DNS FIREWALL

Rule Groups New

Domain Lists New

11:30 CH 04/12/2021

Slack | week-2-lab | FCI - PTIT | Cấu hình Customer GW : Lâm | Instances | EC2 Management Console | (1) Facebook | Google Dịch

000003.awsstudygroup.com/vi/4-vpn-sitetosite/4.2-config-vpn/4.2.4-config-customer-gw/

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ec2-user@ip-10-11-1-123:~

```
/etc/ipsec.conf - Libreswan IPsec configuration file
# See 'man ipsec.conf' and 'man pluto' for more information
# For example configurations and documentation, see https://libreswan.org/wiki/

config setup
# Normally, pluto logs via syslog.
#logfile=/var/log/pluto.log
# Do not enable debug options to debug configuration issues!
#
# plutodebug="control parsing"
# plutodebug="all crypt"
plutodebug=none
#
# NAT-TRAVERSAL support
# exclude networks used on server side by adding %v4::a.b.c.0/24
# It seems that T-Mobile in the US and Rogers/Fido in Canada are
# using 25/8 as "private" address space on their wireless networks.
# This range has never been announced via BGP (at least up to 2015)
virtual_private=%v4:10.0.0.0/8,%v4:192.168.0.0/16,%v4:172.16.0.0/12,%v4:25.0.0.0/8,%v4:100.64.0.0/10,%v6::fd00::/8,%v6::fe80::/10

# if it exists, include system wide crypto-policy defaults
include /etc/crypto-policies/back-ends/libreswan.config

# It is best to add your IPsec connections as separate files in /etc/ipsec.d/
include /etc/ipsec.d/*.conf
```

1. Giới thiệu
2. Tường lửa
3. Thực hành
4. Cấu hình
4.1 Tạo mô hình
4.1.1 Tạo
4.1.2 Tạo
4.2 Cấu hình
4.2.1 Tạo
4.2.2 Tạo
4.2.3 Tạo
4.2.4 Cấu hình Customer GW
5. Dọn dẹp tài nguyên
6. Cấu hình file /etc/sysctl.conf

• Ấn phím ESC và tổ hợp :q! để thoát khỏi trình chỉnh sửa vi.

```
inet6 ::1 prefixlen 128 scopeid 0x10chost>
loop txqueuelen 1000 (Local Loopback)
RX packets 8 bytes 648 (648.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 8 bytes 648 (648.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions

[ec2-user@ip-10-10-4-246 ~]$
root@ip-10-11-1-131:/home/ec2-user
[ec2-user@ip-10-11-1-131 ~]$ ping 10.10.4.246
PING 10.10.4.246 (10.10.4.246): 64 bytes of data:
64 bytes from 10.10.4.246: icmp_seq=1 ttl=254 time=2.55 ms
64 bytes from 10.10.4.246: icmp_seq=2 ttl=254 time=2.75 ms
64 bytes from 10.10.4.246: icmp_seq=3 ttl=254 time=2.72 ms
64 bytes from 10.10.4.246: icmp_seq=4 ttl=254 time=3.45 ms
64 bytes from 10.10.4.246: icmp_seq=5 ttl=254 time=2.61 ms
64 bytes from 10.10.4.246: icmp_seq=6 ttl=254 time=2.75 ms
64 bytes from 10.10.4.246: icmp_seq=7 ttl=254 time=2.65 ms
64 bytes from 10.10.4.246: icmp_seq=8 ttl=254 time=2.82 ms
64 bytes from 10.10.4.246: icmp_seq=9 ttl=254 time=2.81 ms
64 bytes from 10.10.4.246: icmp_seq=10 ttl=254 time=2.61 ms
64 bytes from 10.10.4.246: icmp_seq=11 ttl=254 time=3.02 ms
64 bytes from 10.10.4.246: icmp_seq=12 ttl=254 time=2.76 ms
64 bytes from 10.10.4.246: icmp_seq=13 ttl=254 time=2.66 ms
64 bytes from 10.10.4.246: icmp_seq=14 ttl=254 time=2.58 ms
64 bytes from 10.10.4.246: icmp_seq=15 ttl=254 time=2.61 ms
64 bytes from 10.10.4.246: icmp_seq=16 ttl=254 time=2.68 ms
64 bytes from 10.10.4.246: icmp_seq=17 ttl=254 time=2.67 ms
64 bytes from 10.10.4.246: icmp_seq=18 ttl=254 time=2.66 ms
64 bytes from 10.10.4.246: icmp_seq=19 ttl=254 time=2.73 ms
64 bytes from 10.10.4.246: icmp_seq=20 ttl=254 time=4.08 ms
64 bytes from 10.10.4.246: icmp_seq=21 ttl=254 time=2.56 ms
^C
--- 10.10.4.246 ping statistics ---
21 packets transmitted, 21 received, 0% packet loss, time 20037ms
rtt min/avg/max/mdev = 2.550/2.730/4.080/0.45 ms

ec2-user@ip-10-11-1-123:~
icmp_seq=11 ttl=222 time=208 ms
^C
--- amazon.com ping statistics ---
11 packets transmitted, 11 received, 0% packet loss, time 10004ms
rtt min/avg/max/mdev = 208.397/208.446/208.507/0.436 ms
[ec2-user@ip-10-11-1-123 ~]$ ping 13.213.48.124
PING 13.213.48.124 (13.213.48.124): 64 bytes of data:
64 bytes from 13.213.48.124: icmp_seq=1 ttl=63 time=0.349 ms
64 bytes from 13.213.48.124: icmp_seq=2 ttl=63 time=0.449 ms
64 bytes from 13.213.48.124: icmp_seq=3 ttl=63 time=0.447 ms
64 bytes from 13.213.48.124: icmp_seq=4 ttl=63 time=0.487 ms
64 bytes from 13.213.48.124: icmp_seq=5 ttl=63 time=0.573 ms
64 bytes from 13.213.48.124: icmp_seq=6 ttl=63 time=0.465 ms
64 bytes from 13.213.48.124: icmp_seq=7 ttl=63 time=0.413 ms
64 bytes from 13.213.48.124: icmp_seq=8 ttl=63 time=0.418 ms
64 bytes from 13.213.48.124: icmp_seq=9 ttl=63 time=0.589 ms
64 bytes from 13.213.48.124: icmp_seq=10 ttl=63 time=0.649 ms
64 bytes from 13.213.48.124: icmp_seq=11 ttl=63 time=0.478 ms
64 bytes from 13.213.48.124: icmp_seq=12 ttl=63 time=0.491 ms
64 bytes from 13.213.48.124: icmp_seq=13 ttl=63 time=0.699 ms
64 bytes from 13.213.48.124: icmp_seq=14 ttl=63 time=0.510 ms
64 bytes from 13.213.48.124: icmp_seq=15 ttl=63 time=0.587 ms
^C
--- 13.213.48.124 ping statistics ---
15 packets transmitted, 15 received, 0% packet loss, time 14316ms
rtt min/avg/max/mdev = 0.349/0.506/0.699/0.096 ms
[ec2-user@ip-10-11-1-123 ~]$
```

2 checks passed No alarms
2 checks passed No alarms
2 checks passed No alarms

https://000003.awsstudygroup.com/images/vpn/testing.png?width=90pc 45 ms

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ap-southeast-1.console.aws.amazon.com/vpc/home?region=ap-southeast-1#VpnConnections:sort=State

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Domain Lists New

▼ NETWORK FIREWALL

Firewalls

Firewall Policies

Network Firewall Rule Groups

▼ VIRTUAL PRIVATE NETWORK (VPN)

Customer Gateways

Virtual Private Gateways

Site-to-Site VPN Connections

Client VPN Endpoints

▼ AWS CLOUD WAN

Network Manager New

▼ TRANSIT GATEWAYS

Transit Gateways New

Create VPN Connection Download Configuration Actions

Filter by tags and attributes or search by keyword

Name	VPN ID	State	Virtual Private Gateway	Transit Gateway	Customer Gateway	Cui
	vpn-0e98866f618d8c6e0	deleted	vgw-0c4e0da76b137ec52 VP...	-	cgw-0ca9777505725ed5d Cus...	13.7

VPN Connection: vpn-0e98866f618d8c6e0

Details Tunnel Details Static Routes Tags

VPN ID vpn-0e98866f618d8c6e0 State deleted

Virtual Private Gateway vgw-0c4e0da76b137ec52 | VPN Gateway Customer Gateway cgw-0ca9777505725ed5d | Customer Gateway

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ap-southeast-1.console.aws.amazon.com/vpc/home?region=ap-southeast-1#CustomerGateways:sort=CustomerGatewayId

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Firewall Policies

Network Firewall Rule Groups

▼ VIRTUAL PRIVATE NETWORK (VPN)

Customer Gateways

Virtual Private Gateways

Site-to-Site VPN Connections

Client VPN Endpoints

▼ AWS CLOUD WAN

Network Manager New

▼ TRANSIT GATEWAYS

Transit Gateways New

Create Customer Gateway Actions

Filter by tags and attributes or search by keyword

Name	ID	State	Type	IP Address	BGP ASN	Certificate ARN
	cgw-0ca9777505725ed5d	deleted	ipsec.1	13.213.48.124	65000	

Customer Gateway: cgw-0ca9777505725ed5d

Details Tags

ID cgw-0ca9777505725ed5d State deleted

Type ipsec.1 IP Address 13.213.48.124

BGP ASN 65000 Certificate ARN

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Instances | EC2 Manage

NAT gateways | VPC Manag

Instances | EC2 Managemer

(1) Facebook

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Dedicated Hosts

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Instances (3) Info

Connect

Instance state

Actions

Launch instances

Filter instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	EC2 Public	i-0c51d49d31ab868ed	Terminated	t2.micro	-	No alarms	ap-southeast-1a
<input type="checkbox"/>	Customer Gat...	i-0a3e4a39c4a7ebb72	Terminated	t2.micro	-	No alarms	ap-southeast-1a
<input type="checkbox"/>	EC2 Private	i-0bf6f53d1854f4268	Terminated	t2.micro	-	No alarms	ap-southeast-1b

Select an instance above

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