

5281 資料中心網路技術(英文授課)

Data Center Networking Technology

Project 1 Report

Student Information

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Project Workflow Summary

In this project, I created two Ubuntu 16.04 instances like the image below.

Instances (2) Info

Filter instances

Refresh

Connect

Instance state

Actions

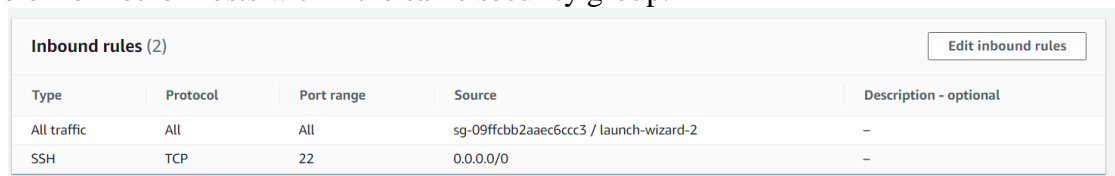
Launch instances

< 1 >

🔍

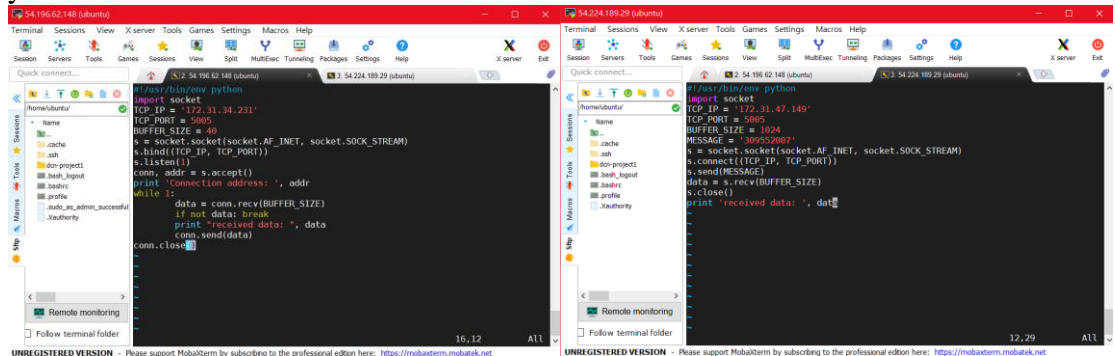
<input type="checkbox"/>	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone ▾	Platform ▾
<input type="checkbox"/>	-	i-09f349c6612fa43d0	🟢 Running 🔍🔍	t2.micro	-	No alarms +	us-east-1b	ec2
<input type="checkbox"/>	-	i-0a04388fd093903d	🟢 Running 🔍🔍	t2.micro	-	No alarms +	us-east-1b	ec2

After the instances became running, I add an security rule that can make hosts be accessible from other hosts within the same security group.



Inbound rules (2)					Edit inbound rules
Type	Protocol	Port range	Source	Description - optional	
All traffic	All	All	sg-09ffcbb2aaec6ccc3 / launch-wizard-2	-	
SSH	TCP	22	0.0.0.0/0	-	

Then, I used MobaXterm to connect to the instances and created server.py and client.py.



After running two programs, I got the messages shown below.

```
ubuntu@ip-172-31-34-231:~/dcn-project1$ python server.py
Connection address: ('172.31.47.149', 56822)
received data: 309552007
```

```
ubuntu@ip-172-31-47-149:~/dcn-project1$ python client.py
received data: 309552007
```

Thoughts & Comments

I used AWS to create two machines and ran two programs on them. It's convenient to use the service since I don't have to deal with the hardware and I don't even have to buy machines. The project gives me a sense of why people change to use cloud service instead of maintaining their machines. Also, the IaaS service is a convenient tool for every company.