



Cisco Developers Connect SuperCAT

Feb 21st 2024, Seoul Korea

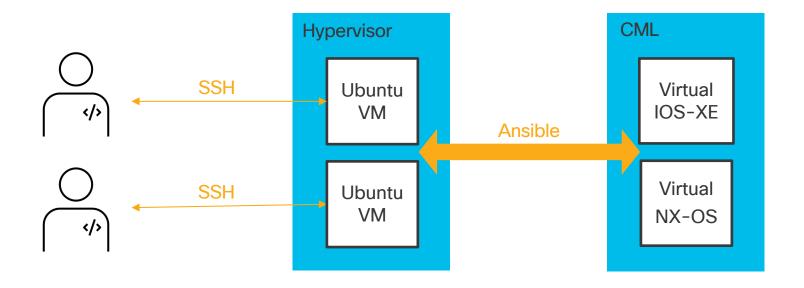
Ansible 실습 환경 소개

CDA Innovation Center Engineer

김기동 프로

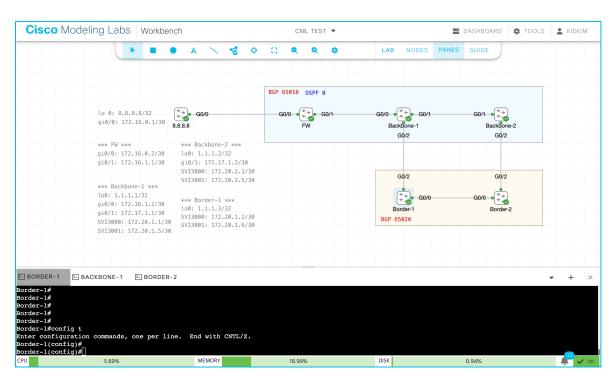


Ansible 실습 환경

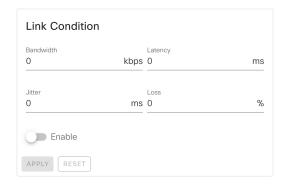




CML(Cisco Modeling Labs) 이란?

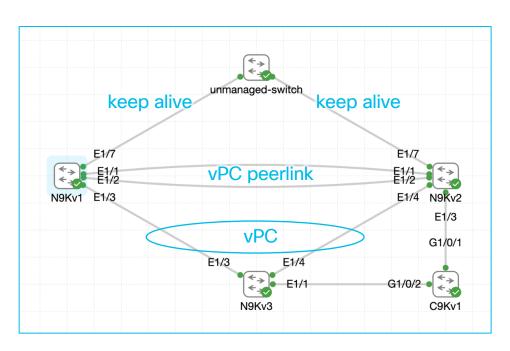


- VIRL 계승
- 실제 장비와 거의 같은 이미지를 사용
- 외부 네트워크와 연결 가능
- 패킷 확인 기능
- Link condition 설정 기능





CML virtual switch 구성



- N9Kv 3대: vPC (Virtual Port-Channel) 구성
- C9Kv 1대: 단독으로 동작
- 각 switch의 mgmt 인터페이스가 외부와 연결
- MGMT IP
 - N9Kv1: 192.168.14.11
 - N9Kv2: 192.168.14.12
 - N9Kv3: 192.168.14.13
 - C9Kv: 192.168.14.14
- ID/PW: admin/Cisco123!@#

접속하셔서 설정 변경 하시면 안됩니다!



Ubuntu VM 접속 정보

- WiFi SSID: CISCO-SDA-GUEST
 - ID/PW: guest1 / 1234Qwer
- Ubuntu VM IP: 192.168.13.1XX
 - XX는 자리 번호
 - 예) 1번: 192.168.13.1<mark>01</mark>
 - 25번: 192.168.13.1<mark>25</mark>
 - ID/PW: devnet/1234Qwer



Ubuntu VM 접속 확인 1

ssh devnet@192.168.13.1XX

• 비밀번호: 1234Qwer

sudo su

• 비밀번호: 1234Qwer

ansible --version

```
(base) kidkim@KIDKIM-M-G9YJ ~ % ssh devnet@192.168.13.140
devnet@192.168.13.140's password:
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.5.0-17-generic x86_64)
 * Documentation: https://help.ubuntu.com
 * Management:
                  https://landscape.canonical.com
 * Support:
                  https://ubuntu.com/pro
Expanded Security Maintenance for Applications is not enabled.
19 updates can be applied immediately.
To see these additional updates run: apt list --upgradable
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
*** System restart required ***
Last login: Tue Feb 20 19:44:18 2024 from 10.225.4.2
devnet@devnet-virtual-machine:~$
devnet@devnet-virtual-machine:~$ sudo su
[sudo] password for devnet:
root@devnet-virtual-machine:/home/devnet#
root@devnet-virtual-machine:/home/devnet# ansible --version
ansible [core 2.16.3]
 config file = None
 configured module search path = ['/root/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/local/lib/python3.10/dist-packages/ansible
  ansible collection location = /root/.ansible/collections:/usr/share/ansible/collections
  executable location = /usr/local/bin/ansible
 python version = 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0] (/usr/bin/python3)
  jinja version = 3.1.3
  libyaml = True
root@devnet-virtual-machine:/home/devnet#
```



Ubuntu VM 접속 확인 2

- ping 192.168.14.11
- ping 8.8.8.8

```
root@devnet-virtual-machine:/home/devnet# ping 192.168.14.11
PING 192.168.14.11 (192.168.14.11) 56(84) bytes of data.
64 bytes from 192.168.14.11: icmp_seq=1 ttl=254 time=1.17 ms
64 bytes from 192.168.14.11: icmp_seq=2 ttl=254 time=1.62 ms
64 bytes from 192.168.14.11: icmp_seq=3 ttl=254 time=1.29 ms
--- 192.168.14.11 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2003ms
rtt min/avg/max/mdev = 1.165/1.357/1.618/0.191 ms
root@devnet-virtual-machine:/home/devnet#
root@devnet-virtual-machine:/home/devnet# ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=56 time=29.3 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=56 time=29.4 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=56 time=31.3 ms
--- 8.8.8.8 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2002ms
rtt min/ava/max/mdev = 29.250/29.976/31.280/0.923 ms
root@devnet-virtual-machine:/home/devnet#
```



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Thank you

