

[R E P O R T]

정보통신공학전공
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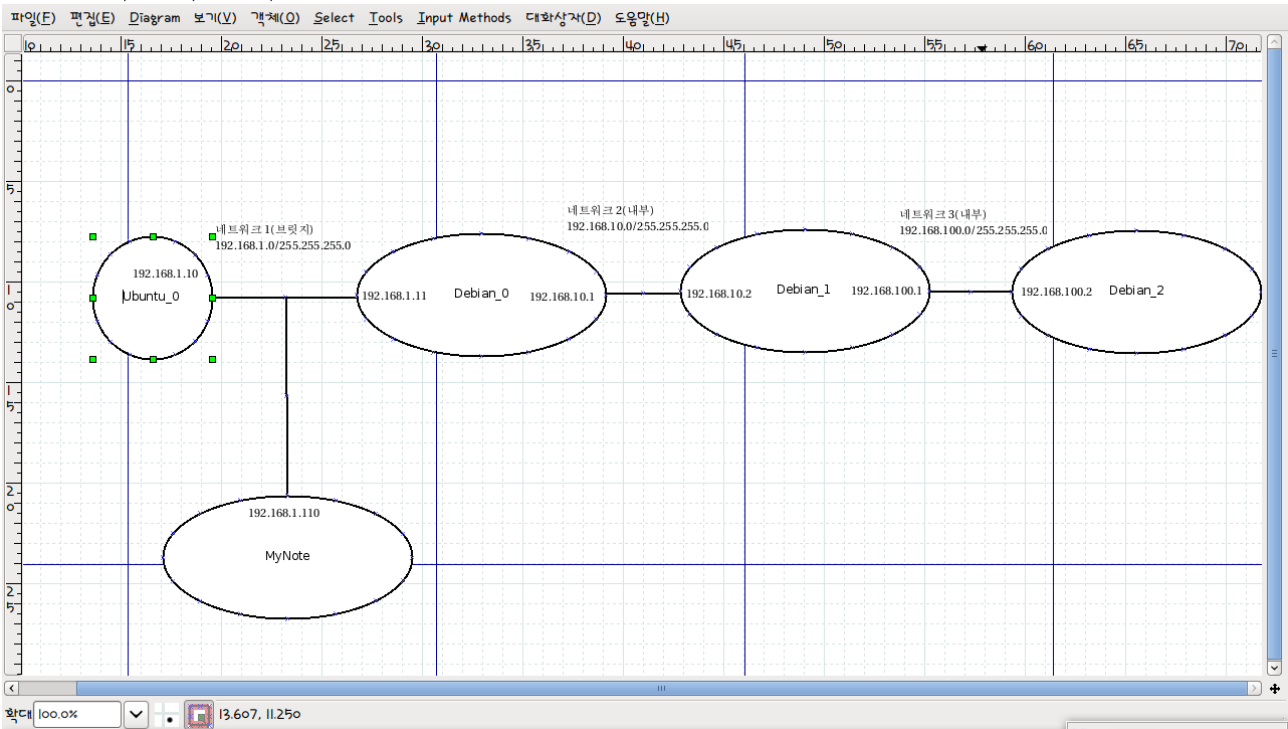
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1. 과제 목표 :

네트워크의 동작을 위해 가장 기본적인 라우터 설정과 정적 라우팅 테이블 작성, 그리고 라우팅 기능의 동작을 확인하고자 한다.

2. 과제 수행 내용 및 결과

네트워크 개요도



네트워크1(Ubuntu_0 – Debian_0 – MyNote) 연결은 Bridge 구성으로 하였음.

3. 라우팅 동작 확인

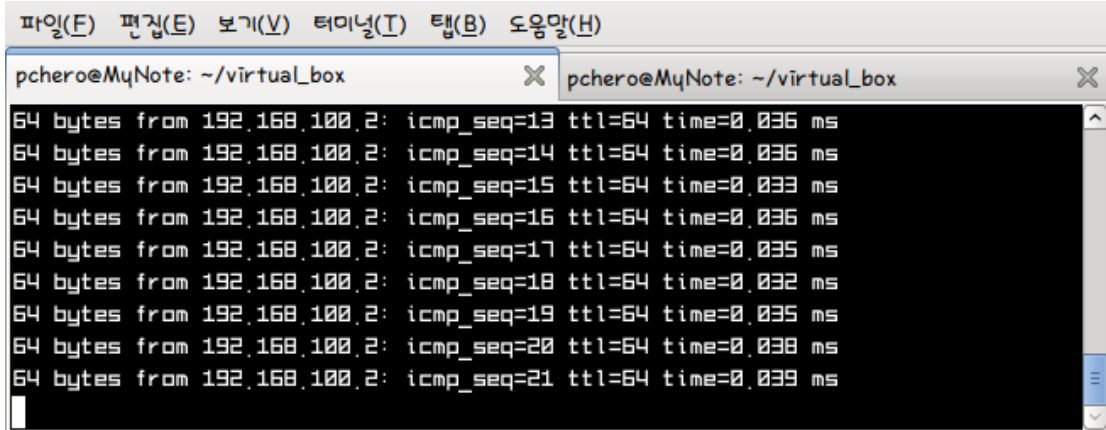
임의 노드에서 임의 노드로 ping 시험을 통해 라우팅 동작을 확인한다. 그리고 윈도우xp에서 노드 3, 그리고 노드 0에서 노드 3에 ping 한 결과를 각각 캡처하여 보고서에 담는다.

또한 노드 3에서 윈도우 XP에서 밖으로 나가는 첫번째 라우터, 즉 기본게이트웨이로 ping한 결과도 캡처하여 보고서에 담는다.

4. 과제보고

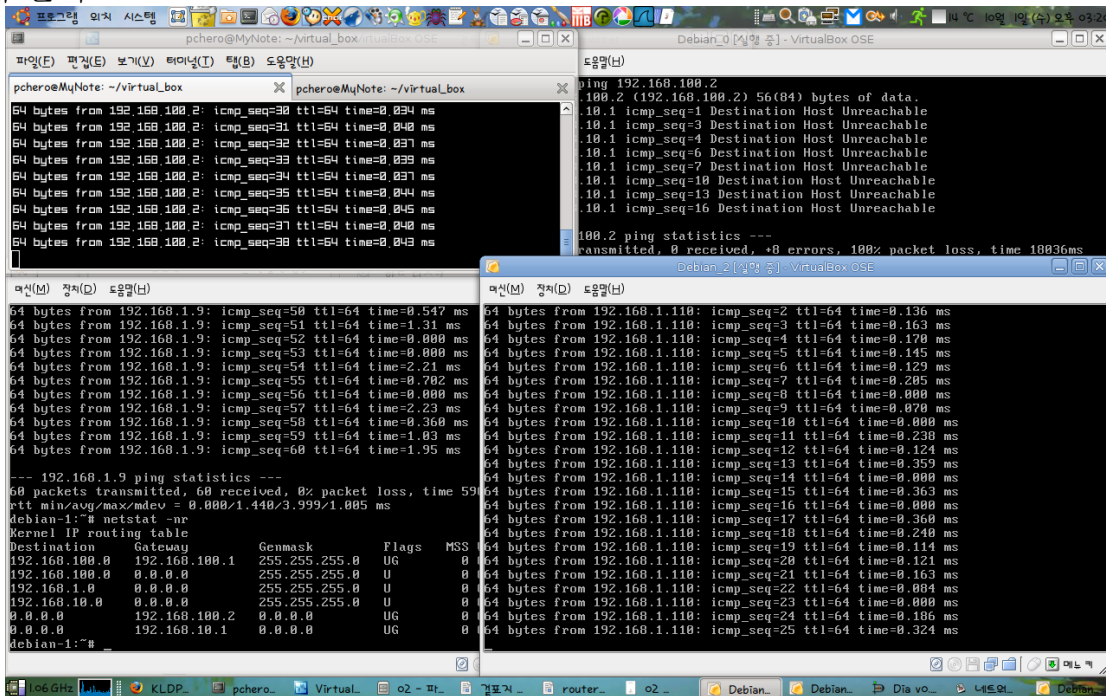
과제 수행 및 평가 안내에 따른 과제보고서를 제출한다.

MyNote -> Debian_2



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파일(F) 편집(E) 보기(V) 터미널(T) 탭(B) 도움말(H)
pchero@MyNote: ~/virtual_box
64 bytes from 192.168.100.2: icmp_seq=13 ttl=64 time=0.036 ms
64 bytes from 192.168.100.2: icmp_seq=14 ttl=64 time=0.036 ms
64 bytes from 192.168.100.2: icmp_seq=15 ttl=64 time=0.033 ms
64 bytes from 192.168.100.2: icmp_seq=16 ttl=64 time=0.036 ms
64 bytes from 192.168.100.2: icmp_seq=17 ttl=64 time=0.035 ms
64 bytes from 192.168.100.2: icmp_seq=18 ttl=64 time=0.032 ms
64 bytes from 192.168.100.2: icmp_seq=19 ttl=64 time=0.035 ms
64 bytes from 192.168.100.2: icmp_seq=20 ttl=64 time=0.038 ms
64 bytes from 192.168.100.2: icmp_seq=21 ttl=64 time=0.039 ms
```

전체 결과



```
Debian_0 [실행 중] - VirtualBox OSE
ping 192.168.100.2
192.2 (192.168.100.2) 56(84) bytes of data.
.10.1 icmp_seq=1 Destination Host Unreachable
.10.1 icmp_seq=3 Destination Host Unreachable
.10.1 icmp_seq=4 Destination Host Unreachable
.10.1 icmp_seq=6 Destination Host Unreachable
.10.1 icmp_seq=7 Destination Host Unreachable
.10.1 icmp_seq=10 Destination Host Unreachable
.10.1 icmp_seq=13 Destination Host Unreachable
.10.1 icmp_seq=16 Destination Host Unreachable
192.2 ping statistics ---
60 packets transmitted, 0 received, 100% packet loss, time 10036ms
Debian_2 [실행 중] - VirtualBox OSE
ping 192.168.1.9
64 bytes from 192.168.1.9: icmp_seq=50 ttl=64 time=0.547 ms
64 bytes from 192.168.1.9: icmp_seq=51 ttl=64 time=1.31 ms
64 bytes from 192.168.1.9: icmp_seq=52 ttl=64 time=0.000 ms
64 bytes from 192.168.1.9: icmp_seq=53 ttl=64 time=0.000 ms
64 bytes from 192.168.1.9: icmp_seq=54 ttl=64 time=2.21 ms
64 bytes from 192.168.1.9: icmp_seq=55 ttl=64 time=0.702 ms
64 bytes from 192.168.1.9: icmp_seq=56 ttl=64 time=0.000 ms
64 bytes from 192.168.1.9: icmp_seq=57 ttl=64 time=2.23 ms
64 bytes from 192.168.1.9: icmp_seq=58 ttl=64 time=0.360 ms
64 bytes from 192.168.1.9: icmp_seq=59 ttl=64 time=1.03 ms
64 bytes from 192.168.1.9: icmp_seq=60 ttl=64 time=1.95 ms
--- 192.168.1.9 ping statistics ---
60 packets transmitted, 60 received, 0% packet loss, time 591ms
rtt min/avg/max/mdev = 0.000/1.440/3.999/1.005 ms
Debian-1:~# netstat -nr
Kernel IP routing table
Destination Gateway Genmask Flags MSS
192.168.100.0 192.168.100.1 255.255.255.0 UG 0
192.168.100.0 0.0.0.0 255.255.255.0 U 0
192.168.1.0 0.0.0.0 255.255.255.0 U 0
192.168.10.0 0.0.0.0 255.255.255.0 U 0
0.0.0.0 192.168.100.2 0.0.0.0 UG 0
0.0.0.0 192.168.10.1 0.0.0.0 UG 0
Debian-1:~#
64 bytes from 192.168.1.110: icmp_seq=2 ttl=64 time=0.136 ms
64 bytes from 192.168.1.110: icmp_seq=3 ttl=64 time=0.163 ms
64 bytes from 192.168.1.110: icmp_seq=4 ttl=64 time=0.170 ms
64 bytes from 192.168.1.110: icmp_seq=5 ttl=64 time=0.145 ms
64 bytes from 192.168.1.110: icmp_seq=6 ttl=64 time=0.129 ms
64 bytes from 192.168.1.110: icmp_seq=7 ttl=64 time=0.205 ms
64 bytes from 192.168.1.110: icmp_seq=8 ttl=64 time=0.000 ms
64 bytes from 192.168.1.110: icmp_seq=9 ttl=64 time=0.070 ms
64 bytes from 192.168.1.110: icmp_seq=10 ttl=64 time=0.000 ms
64 bytes from 192.168.1.110: icmp_seq=11 ttl=64 time=0.230 ms
64 bytes from 192.168.1.110: icmp_seq=12 ttl=64 time=0.124 ms
64 bytes from 192.168.1.110: icmp_seq=13 ttl=64 time=0.359 ms
64 bytes from 192.168.1.110: icmp_seq=14 ttl=64 time=0.000 ms
64 bytes from 192.168.1.110: icmp_seq=15 ttl=64 time=0.363 ms
64 bytes from 192.168.1.110: icmp_seq=16 ttl=64 time=0.000 ms
64 bytes from 192.168.1.110: icmp_seq=17 ttl=64 time=0.360 ms
64 bytes from 192.168.1.110: icmp_seq=18 ttl=64 time=0.240 ms
64 bytes from 192.168.1.110: icmp_seq=19 ttl=64 time=0.114 ms
64 bytes from 192.168.1.110: icmp_seq=20 ttl=64 time=0.121 ms
64 bytes from 192.168.1.110: icmp_seq=21 ttl=64 time=0.163 ms
64 bytes from 192.168.1.110: icmp_seq=22 ttl=64 time=0.004 ms
64 bytes from 192.168.1.110: icmp_seq=23 ttl=64 time=0.000 ms
64 bytes from 192.168.1.110: icmp_seq=24 ttl=64 time=0.186 ms
64 bytes from 192.168.1.110: icmp_seq=25 ttl=64 time=0.324 ms
```

6. Reference

<http://wiki.kldp.org/wiki.php/VirtualBoxBridge>

