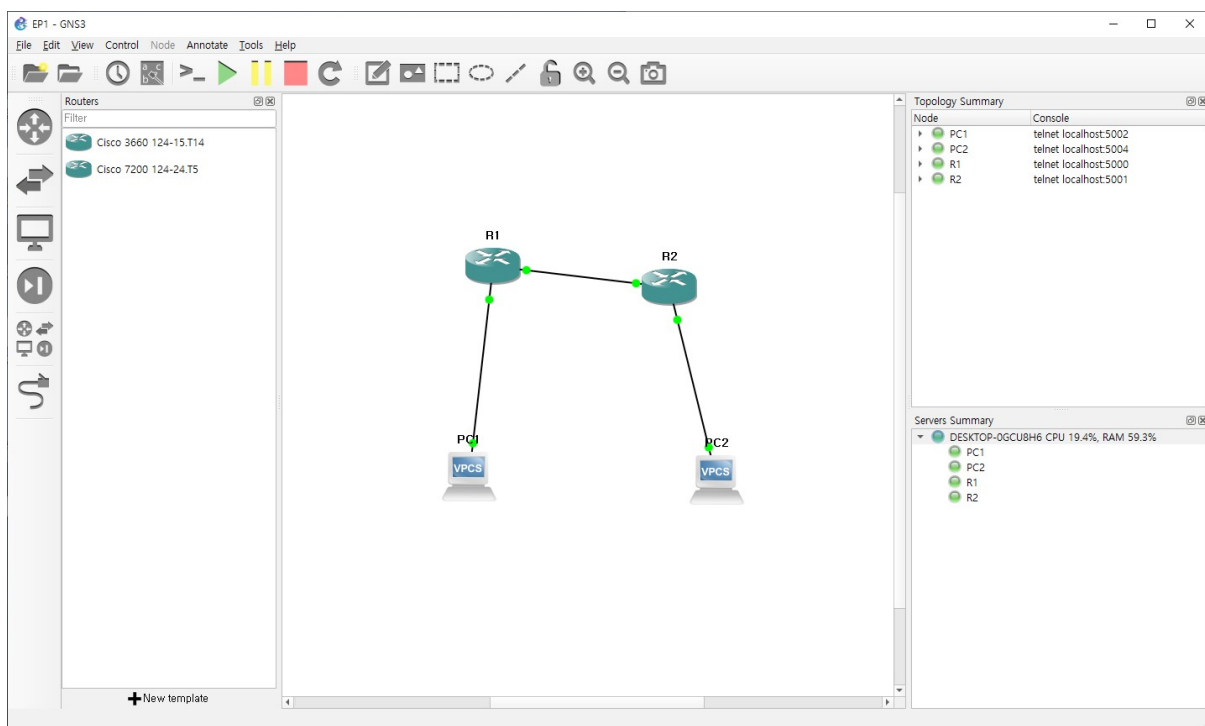


EP1 – Redes de Computadores ACH2026

Sungwon Yoon – 9822261

1.



2.



```
PC1> ping 1.0.0.254 -c 2
84 bytes from 1.0.0.254 icmp_seq=1 ttl=255 time=15.312 ms
84 bytes from 1.0.0.254 icmp_seq=2 ttl=255 time=15.199 ms

PC1> trace 1.0.0.254
trace to 1.0.0.254, 8 hops max, press Ctrl+C to stop
 1 *1.0.0.254 15.204 ms (ICMP type:3, code:3, Destination port unreachable)

PC1> ping 3.0.0.1 -c 2
84 bytes from 3.0.0.1 icmp_seq=1 ttl=255 time=15.158 ms
84 bytes from 3.0.0.1 icmp_seq=2 ttl=255 time=15.312 ms

PC1> trace 3.0.0.1
trace to 3.0.0.1, 8 hops max, press Ctrl+C to stop
 1 *1.0.0.254 15.266 ms (ICMP type:3, code:3, Destination port unreachable)

PC1> ping 3.0.0.2 -c 2
84 bytes from 3.0.0.2 icmp_seq=1 ttl=254 time=45.461 ms
84 bytes from 3.0.0.2 icmp_seq=2 ttl=254 time=45.320 ms

PC1> trace 3.0.0.2
trace to 3.0.0.2, 8 hops max, press Ctrl+C to stop
 1 1.0.0.254 15.190 ms 15.444 ms 15.192 ms
 2 *3.0.0.2 45.514 ms (ICMP type:3, code:3, Destination port unreachable)

PC1> ping 2.0.0.254 -c 2
84 bytes from 2.0.0.254 icmp_seq=1 ttl=254 time=45.444 ms
84 bytes from 2.0.0.254 icmp_seq=2 ttl=254 time=45.485 ms

PC1> trace 2.0.0.254
trace to 2.0.0.254, 8 hops max, press Ctrl+C to stop
 1 1.0.0.254 15.187 ms 15.176 ms 15.184 ms
 2 *3.0.0.2 45.271 ms (ICMP type:3, code:3, Destination port unreachable)

PC1> ping 2.0.0.1 -c 2
84 bytes from 2.0.0.1 icmp_seq=1 ttl=62 time=60.266 ms
84 bytes from 2.0.0.1 icmp_seq=2 ttl=62 time=60.309 ms

PC1> trace 2.0.0.1
trace to 2.0.0.1, 8 hops max, press Ctrl+C to stop
 1 1.0.0.254 15.109 ms 15.358 ms 15.278 ms
 2 3.0.0.2 45.399 ms 45.161 ms 45.260 ms
 3 *2.0.0.1 60.208 ms (ICMP type:3, code:3, Destination port unreachable)

PC1>
```

solarwinds | Solar-PuTTY free tool © 2019 SolarWinds Worldwide, LLC. All rights reserved.

3.

O roteador R1 tem a porta FastEthernet0/0 endereçada com IP 3.0.0.1, conectada com o roteador R2 e a porta Ethernet1/0 com IP 1.0.0.254, conectada com o PC1. O PC1 está conectado na rede via roteador R1 com IP 1.0.0.1, utilizando a porta Ethernet0.

Da mesma maneira, o roteador R2 tem a porta FastEthernet0/0 endereçada com IP 3.0.0.2, conectada com o roteador R1 e a porta Ethernet1/0 com IP 2.0.0.254, conectada com o PC2. O PC2, por sua vez, está conectado na rede via roteador R2 com IP 2.0.0.1, utilizando a porta Ethernet0.

Todas as sub-redes estão divididas utilizando a máscara 255.255.255.0.

Para sub-rede PC1 e R1, pode ser utilizada faixa 1.0.0.1 a 1.0.0.254; para PC2 e R2, 2.0.0.1 a 2.0.0.254; e para R1 e R2, 3.0.0.1 a 3.0.0.254.

4.

Foi utilizado para PC3, o comando

```
ip 1.0.0.2 255.255.255.0 1.0.0.254
```

Não foi preciso mudar as configurações do PC1 e do R1. Apenas a porta Ethernet1/0 do R1 foi conectada com a porta Ethernet0 do *switch* Ethernet, e as portas Ethernet1 e Ethernet2 do *switch* foram conectadas com a porta Ethernet0 do PC1 e do PC2, respectivamente.