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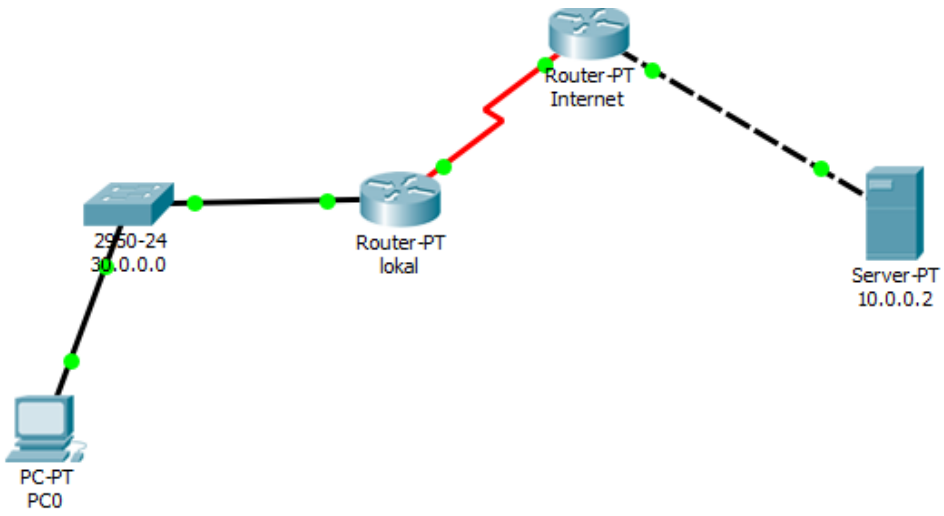
NIM : L200170146

Kelas : C

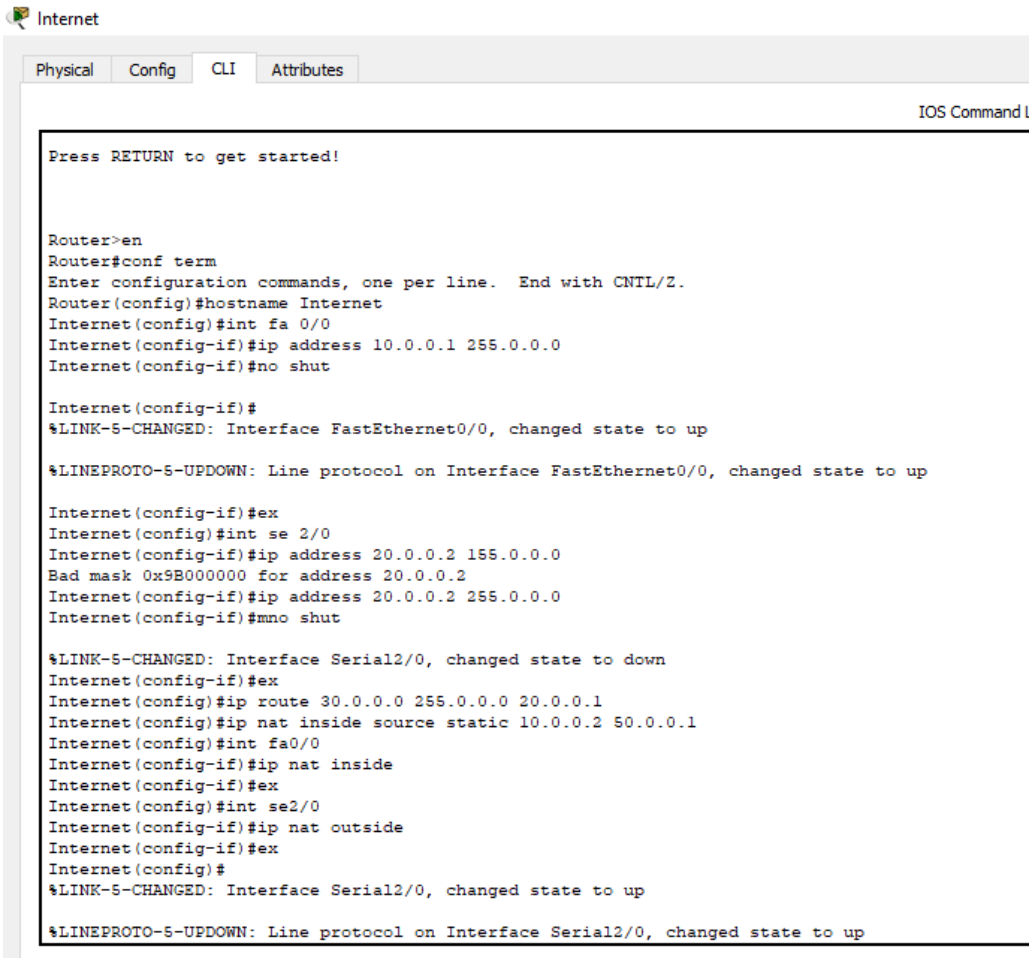
PRAKTIKUM MODUL 9

Kegiatan Praktikum

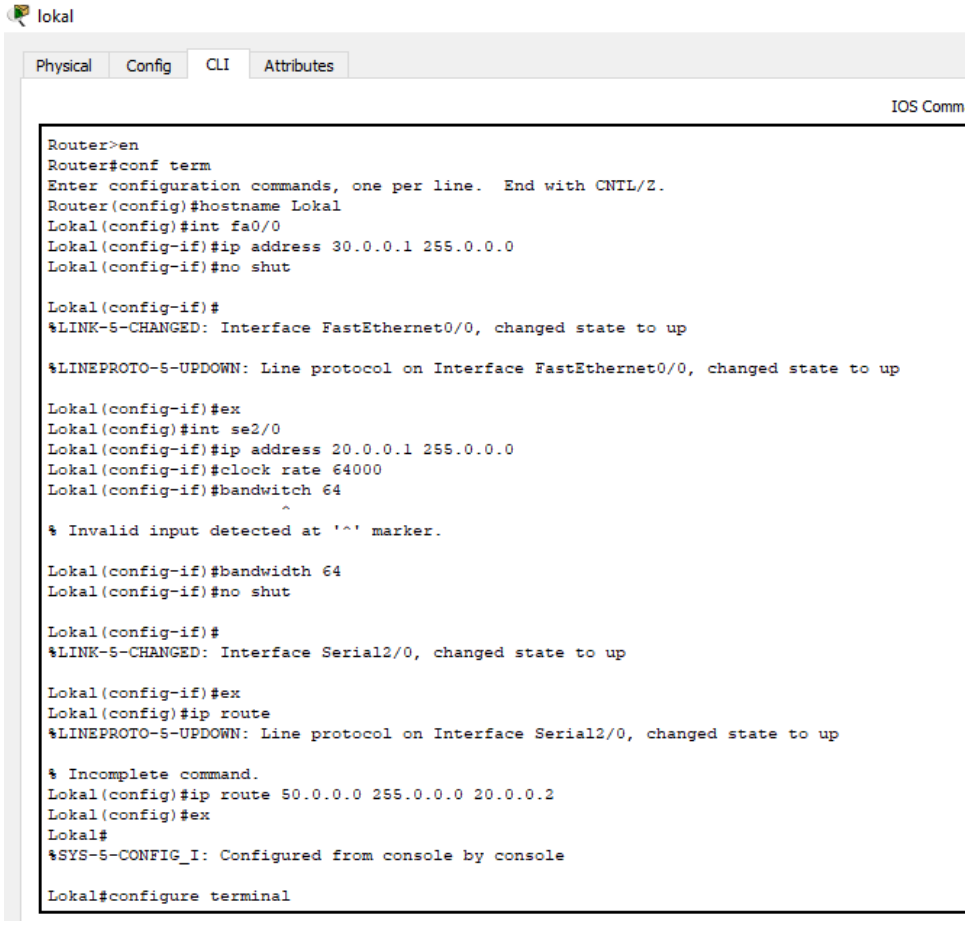
1. Membuat topologi jaringan sesuai pada gambar



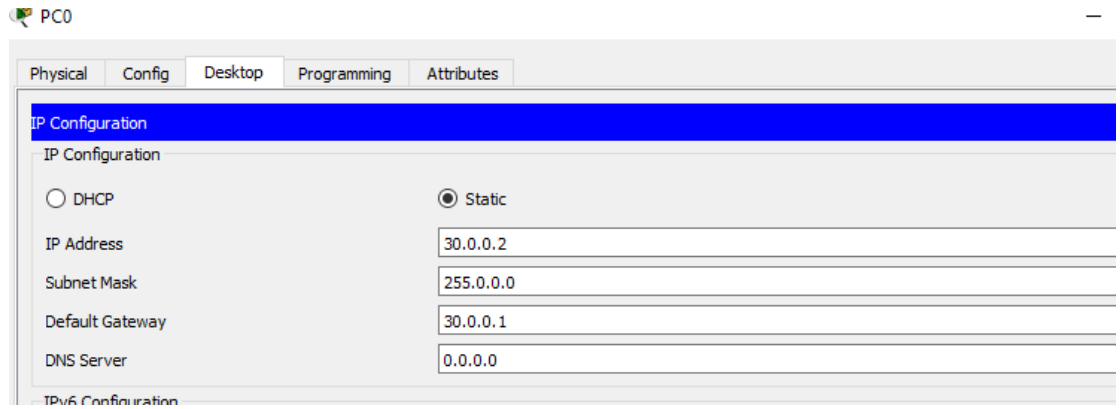
2. Konfigurasi Router Internet
    - Merubah nama hostname
    - Konfigurasi se 2/0 dan fa 0/0
    - Mengaktifkan routing agar mengenali network 30.0.0.0
    - Mengaktifkan nat source static untuk IP 10.0.0.2 pada jaringan 10.0.0.0 agar ditranslasikan menjadi 50.0.0.1
    - Mengaktifkan NAT inside untuk port fa 0/0 dan NAT outside untuk se 2/0

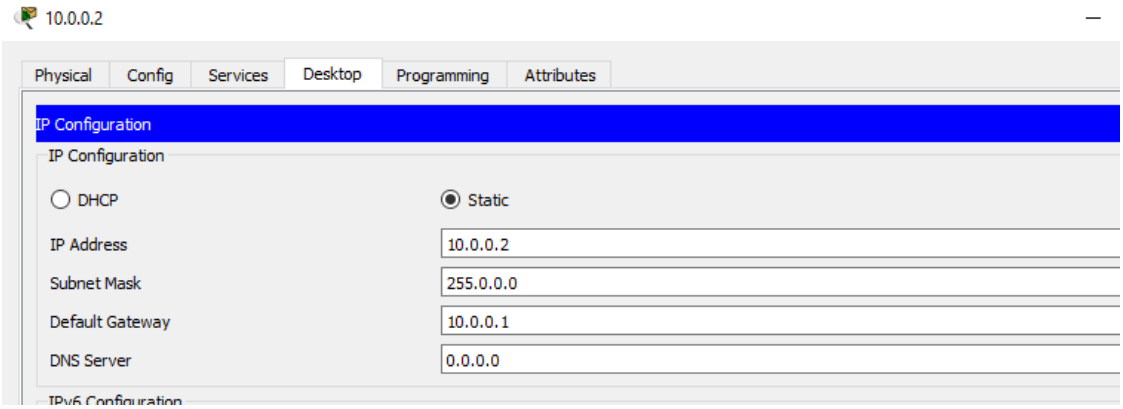


3. Konfigurasi Router Lokal
    - Merubah nama hostname menjadi lokal
    - Mengkonfigurasi fa 0/0 dan memberi IP 30.0.0.1 subnet 255.0.0.0 dan mengaktifkan port fa 0/0
    - Mengkonfigurasi port se 2/0 dan memberi IP kemudian mengaktifkannya
    - Mengaktifkan clockrate dan bandwidth
    - Memberikan tabel routing statis

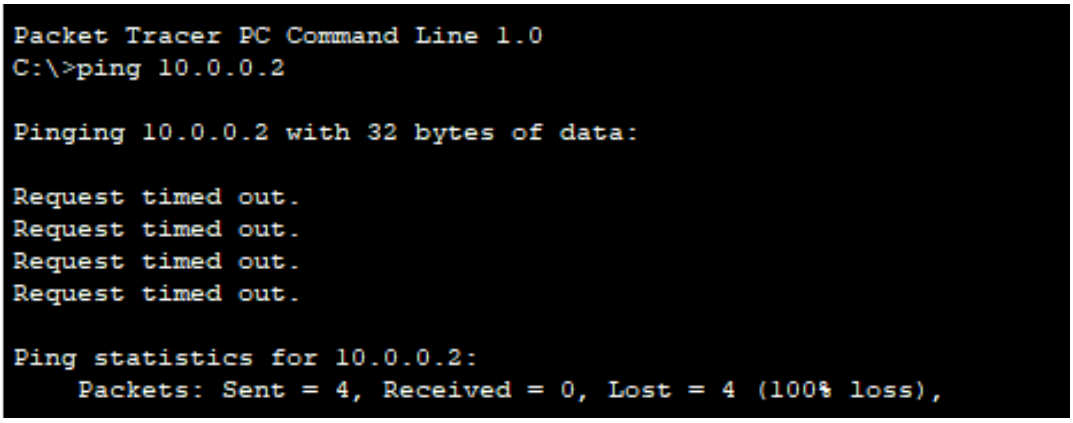



```
% Incomplete command.
Lokal(config)#ip route 50.0.0.0 255.0.0.0 20.0.0.2
Lokal(config)#ex
Lokal#
%SYS-5-CONFIG_I: Configured from console by console

Lokal#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Lokal(config)#interface Serial2/0
Lokal(config-if)#
Lokal(config-if)#exit
Lokal(config)#interface FastEthernet0/0
Lokal(config-if)#
```





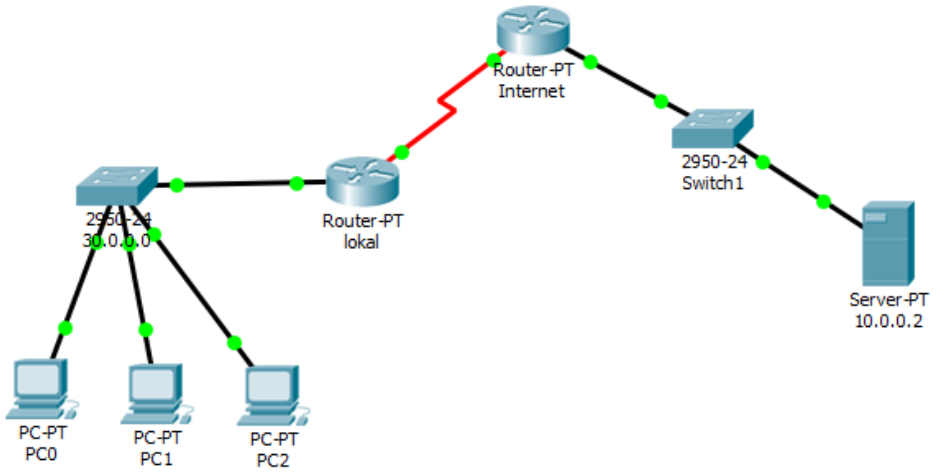
4. Melakukan ping untuk menguji apakah konfigurasi NAT berhasil atau tidak. Ping terhadap IP asli dari web server.

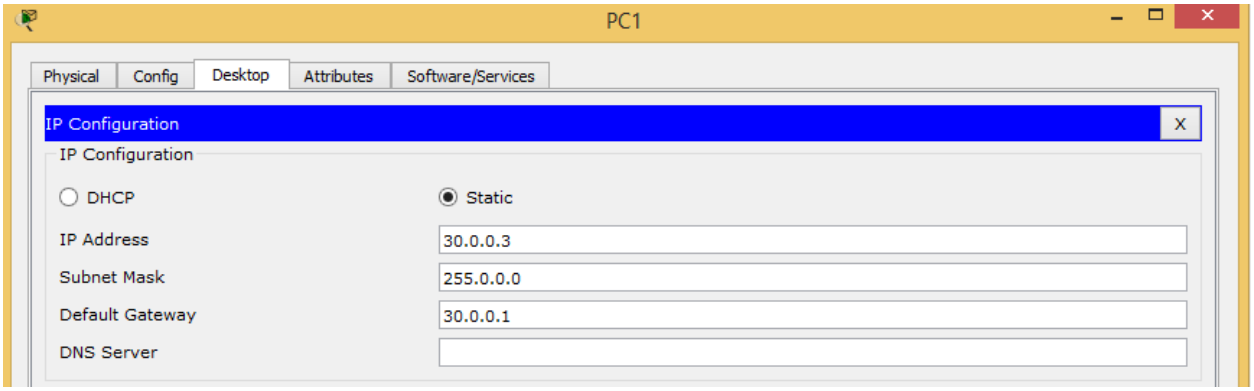


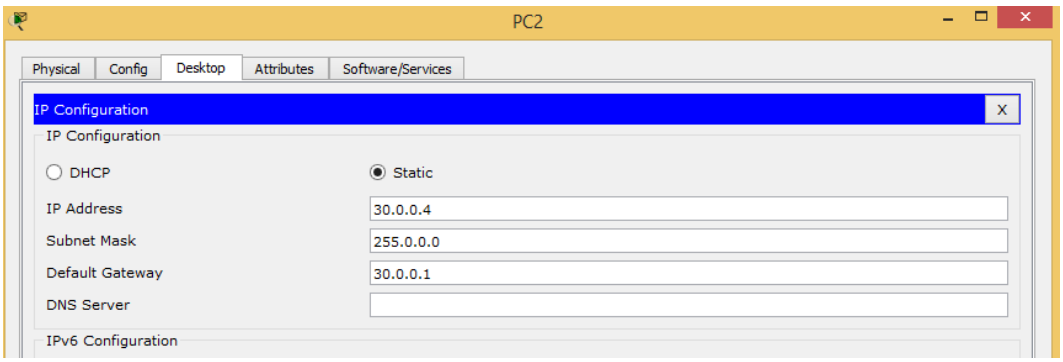
5. Melakukan ping terhadap IP publik dari web server.

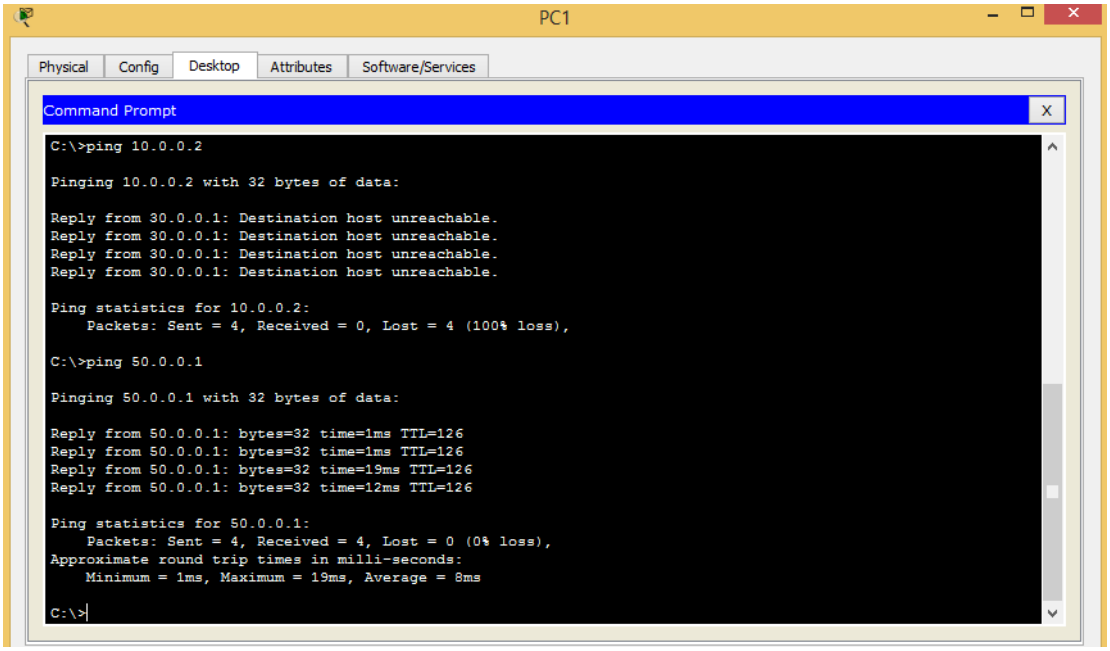
```
C:\>ping 50.0.0.1

Pinging 50.0.0.1 with 32 bytes of data:

Reply from 50.0.0.1: bytes=32 time=2ms TTL=126
Reply from 50.0.0.1: bytes=32 time=1ms TTL=126
Reply from 50.0.0.1: bytes=32 time=1ms TTL=126
Reply from 50.0.0.1: bytes=32 time=2ms TTL=126

Ping statistics for 50.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 2ms, Average = 1ms
```

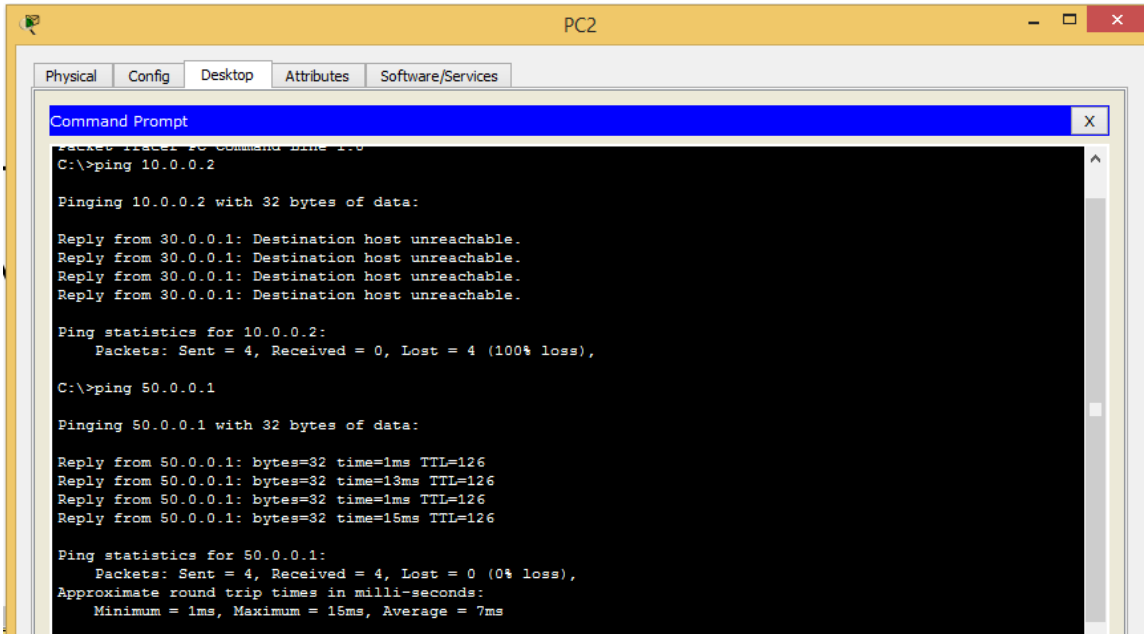
6. Kembangkan topologi menjadi seperti pada gambar
   - Lalu dikonfigurasikan agar PC1, PC2, dapat terkoneksi dengan server






PC2
Physical
Config
Desktop
Attributes
Software/Services
IP Configuration
IP Configuration
DHCP
Static
IP Address
30.0.0.4
Subnet Mask
255.0.0.0
Default Gateway
30.0.0.1
DNS Server
IPv6 Configuration


PC1
Physical
Config
Desktop
Attributes
Software/Services
Command Prompt
C:\>ping 10.0.0.2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Ping statistics for 10.0.0.2:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 50.0.0.1
Pinging 50.0.0.1 with 32 bytes of data:
Reply from 50.0.0.1: bytes=32 time=1ms TTL=126
Reply from 50.0.0.1: bytes=32 time=1ms TTL=126
Reply from 50.0.0.1: bytes=32 time=19ms TTL=126
Reply from 50.0.0.1: bytes=32 time=12ms TTL=126
Ping statistics for 50.0.0.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 19ms, Average = 8ms
C:\>


PC2
Physical
Config
Desktop
Attributes
Software/Services
Command Prompt
C:\>ping 10.0.0.2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Ping statistics for 10.0.0.2:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 50.0.0.1
Pinging 50.0.0.1 with 32 bytes of data:
Reply from 50.0.0.1: bytes=32 time=1ms TTL=126
Reply from 50.0.0.1: bytes=32 time=13ms TTL=126
Reply from 50.0.0.1: bytes=32 time=1ms TTL=126
Reply from 50.0.0.1: bytes=32 time=15ms TTL=126
Ping statistics for 50.0.0.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 15ms, Average = 7ms