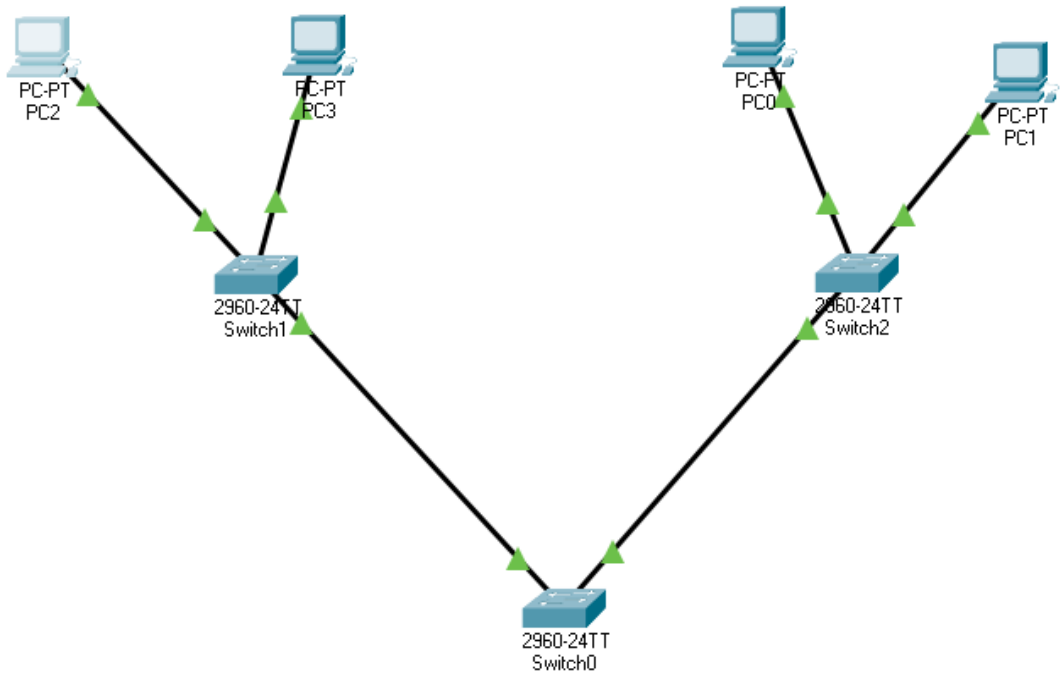
Name: Shehata Abd El Rahaman Übung: UE1

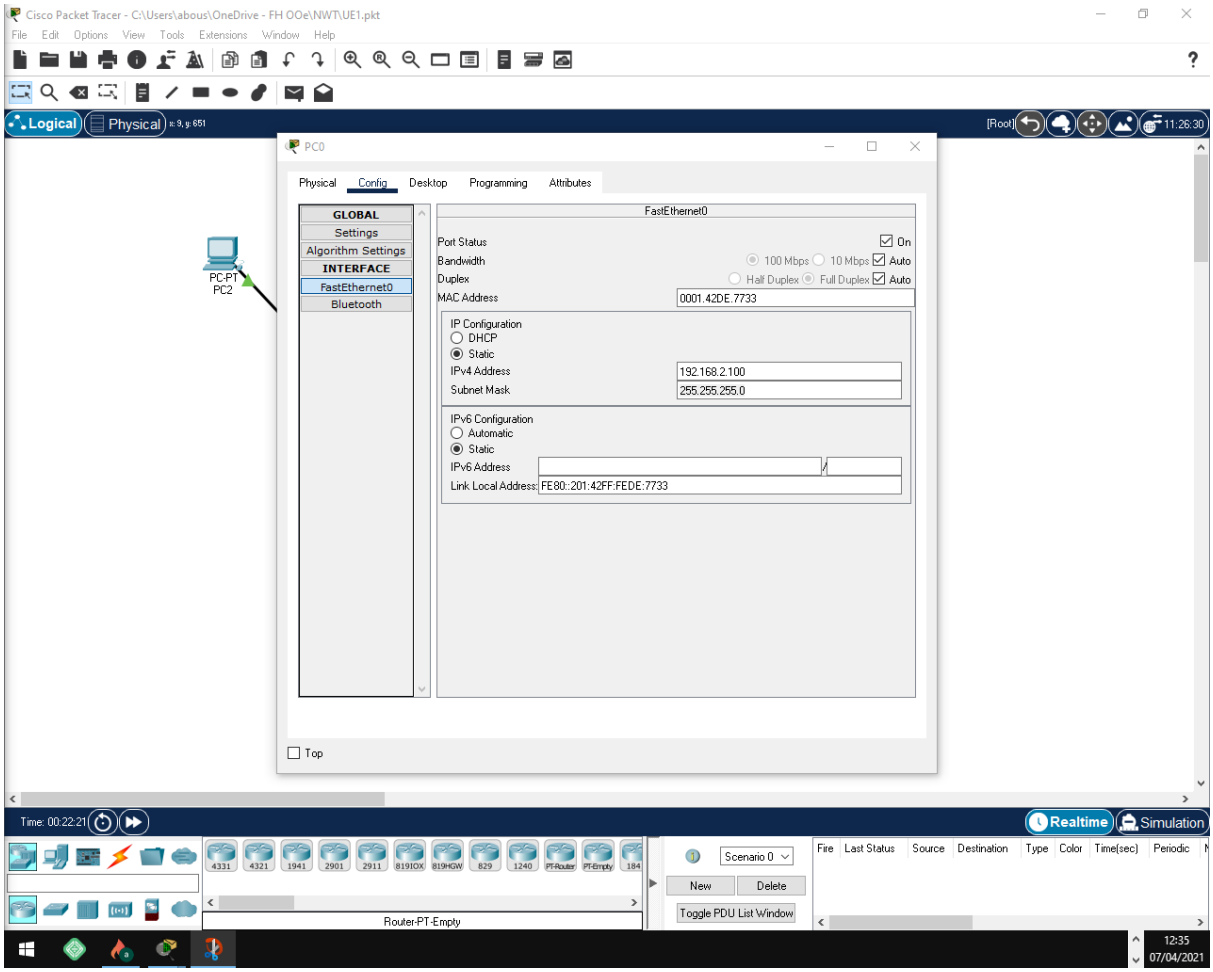
Aufbau des virtuellen Netzwerks

1. Switches aufstellen
   1.1. Bei den “Network Devices”, wird der “Device-Type” Switches gewählt.
   1.2. Dann wählt man den 2960 Switch und stellt ihn rein.
   1.3. Dies wird 3 mal durchgeführt
   1.4. Jetzt wählt man ihm Menü “Connections” den “Copper Straight-Through”
   1.5. Danach klickt man auf einen der Switches und klickt auf den auf “GigabitEthernet x/x” um das Kabel zu verbinden.
   1.6. Dann fürt man das gleiche mit einem anderen Switch.
   1.7. Dann verbindet man einen von den 2 Switches als Backbone und verbindet ihn mit dem dritten Switch
2. Endsysteme aufstellen
   2.1. Bei den “End Devices”, wird der PC gewählt und fügt es ein.
   2.2. Dies führt man 4 mal durch.
   2.3. Jetzt wählt man ihm Menü “Connections” den “Copper Straight-Through” .
   2.4. Dann verbindet man es mit dem einem der PCs FastEthernet.
   2.5. Danach klickt man auf einen der Access Switches und klickt auf den auf “FastEthernet x/x” um das Kabel zu verbinden.
   2.6. Dann fürt man die Gleichen Scritte von 1.2.3 – 1.2.5 nochmal mit dem Gleichen Switch durch.
   2.7. Dann führt man die Schritte 1.2.3 – 1.2.6 mit den 2 anderen PCs und dem anderen Access Switch durch.



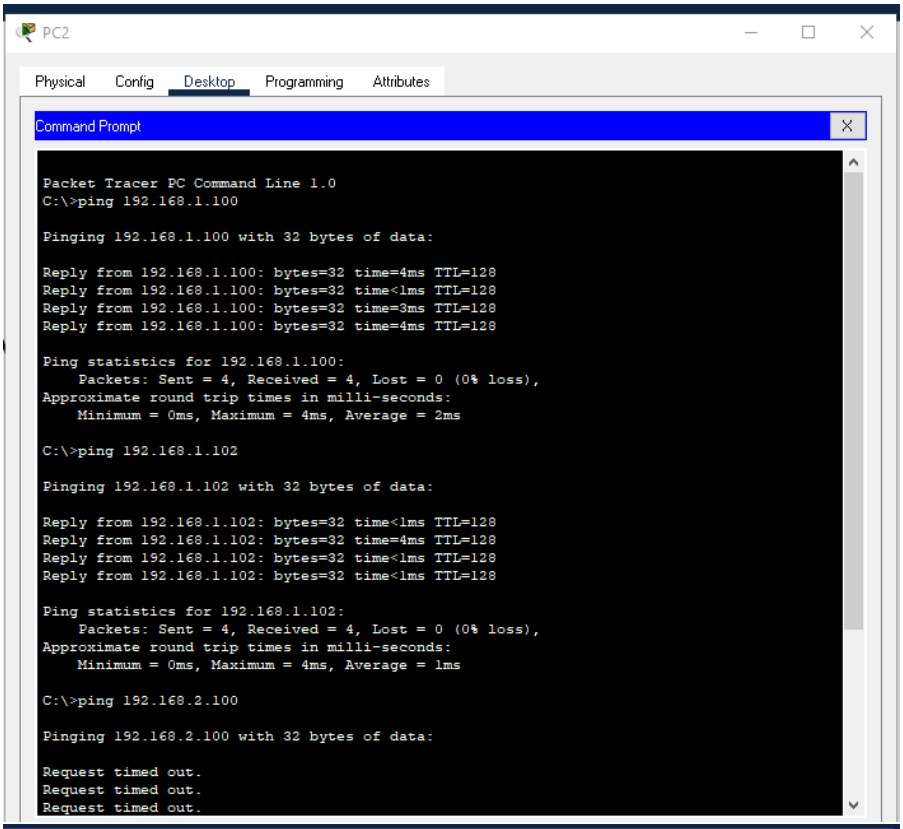
3. IP Adresse einstellen
   3.1. Man führt einen Doppeltklick auf das Endystem durch und dann taucht ein Fenster auf.
   3.2. In diesem Fenster wählt man den Desktop Tab und klickt auf “IP Configuration”.

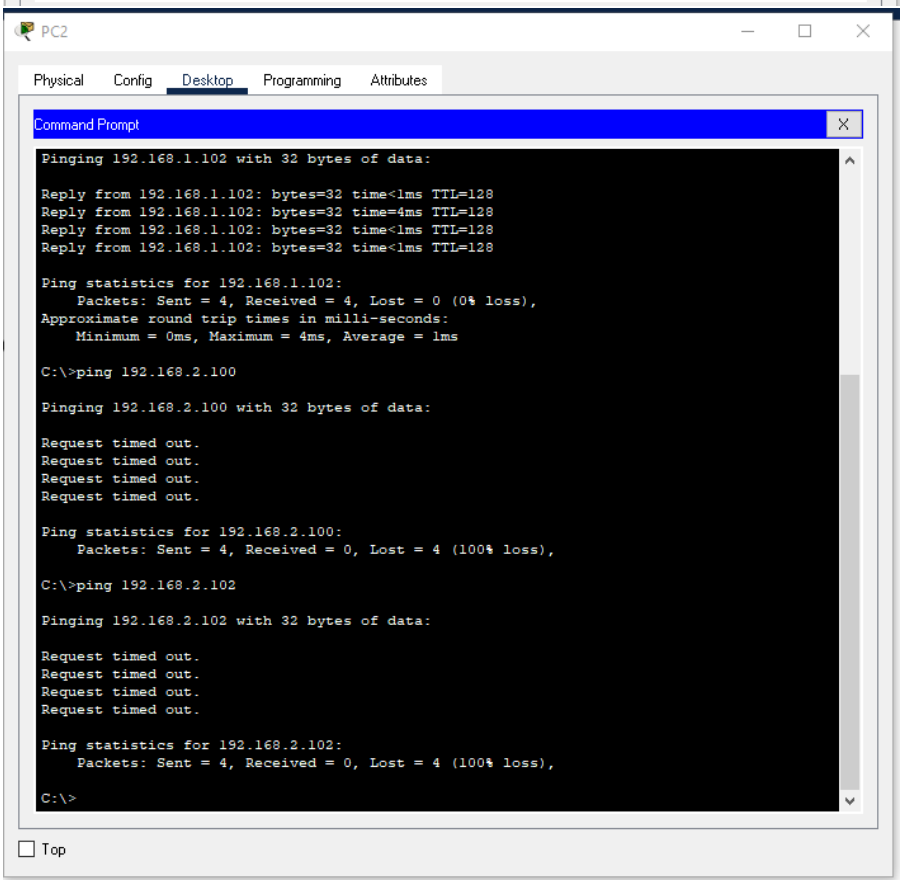
3.3. Unter “IPv4 Address” gibt man die jeweilige Adresse ein.

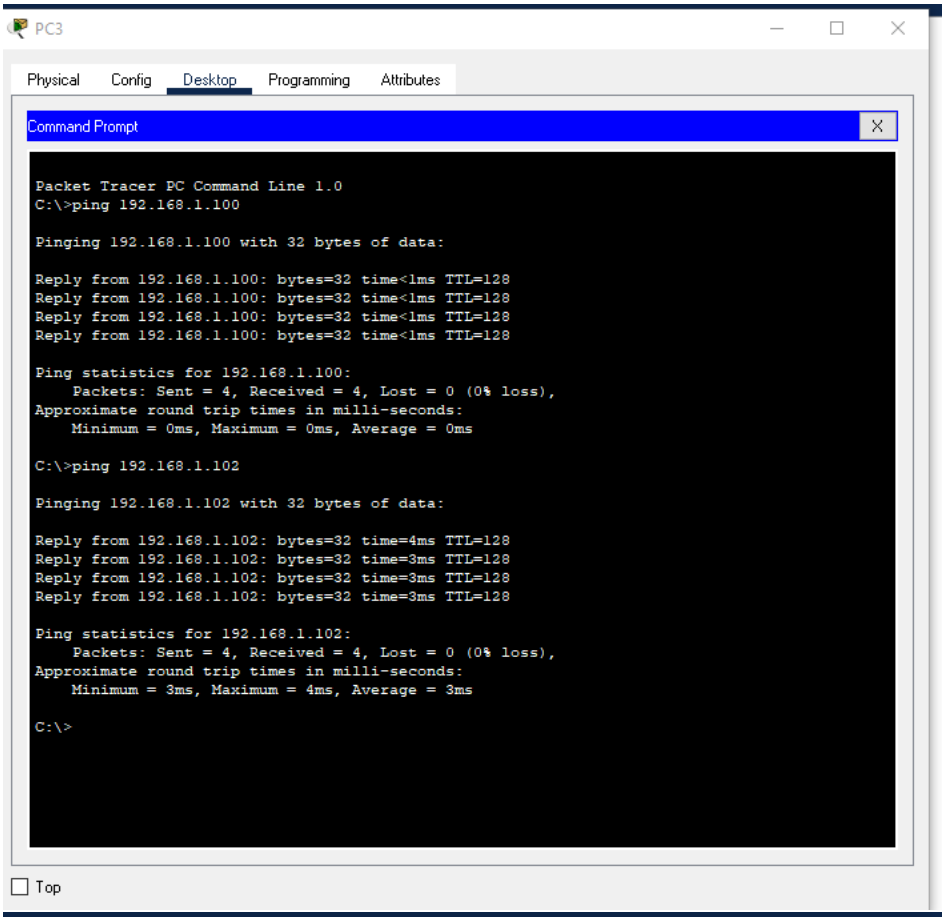


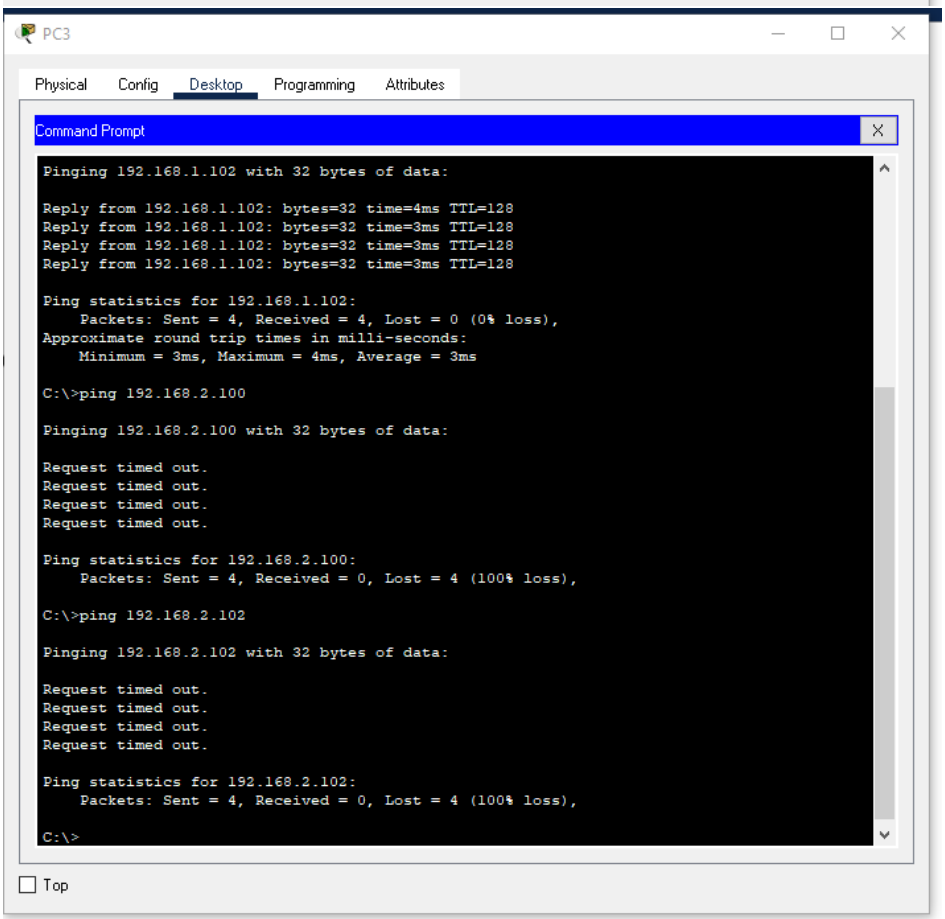
4. Konfiguration der Endsysteme
   4.1. Wenn man bei 1.3.3 weitermacht findet man unter der IP-Adresse die Subnet Mask.
   4.2. In diesem Feld gibt man 255.255.255.0 was /24 ist.
   4.3. Die wird bei allen Endsystemen ausgeführt.
   4.4. Der nächste Schritt ist auch im Desktop-Menü, aber jetzt wählt man die “Command Prompt”.
   4.5. In der Prompt versucht man die Endgeräte zu erreichen mit ping.
   4.6. Resultate:

4.6.1.192.168.1.x:






PC3
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.100
Pinging 192.168.1.100 with 32 bytes of data:
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.1.102
Pinging 192.168.1.102 with 32 bytes of data:
Reply from 192.168.1.102: bytes=32 time=4ms TTL=128
Reply from 192.168.1.102: bytes=32 time=3ms TTL=128
Reply from 192.168.1.102: bytes=32 time=3ms TTL=128
Reply from 192.168.1.102: bytes=32 time=3ms TTL=128
Ping statistics for 192.168.1.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 3ms, Maximum = 4ms, Average = 3ms
C:\>
Top


PC3
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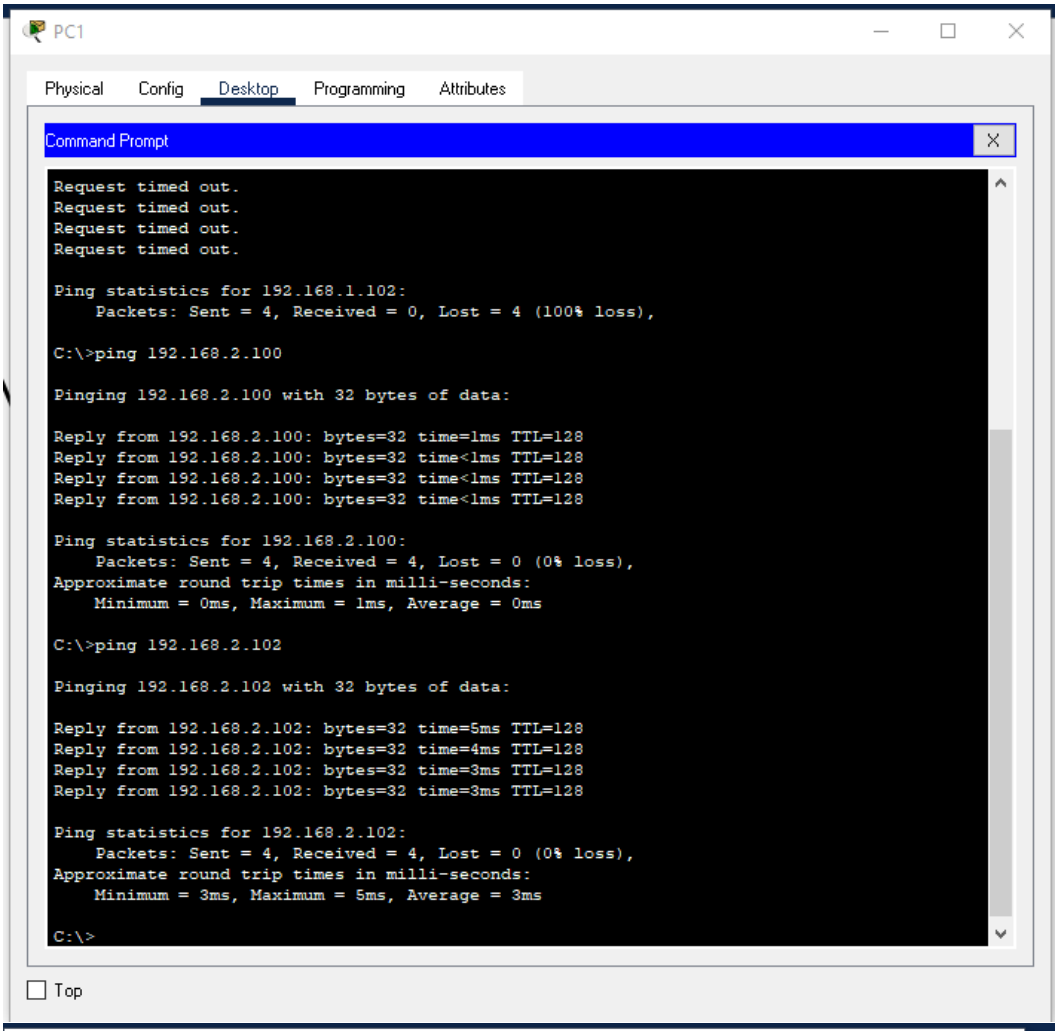
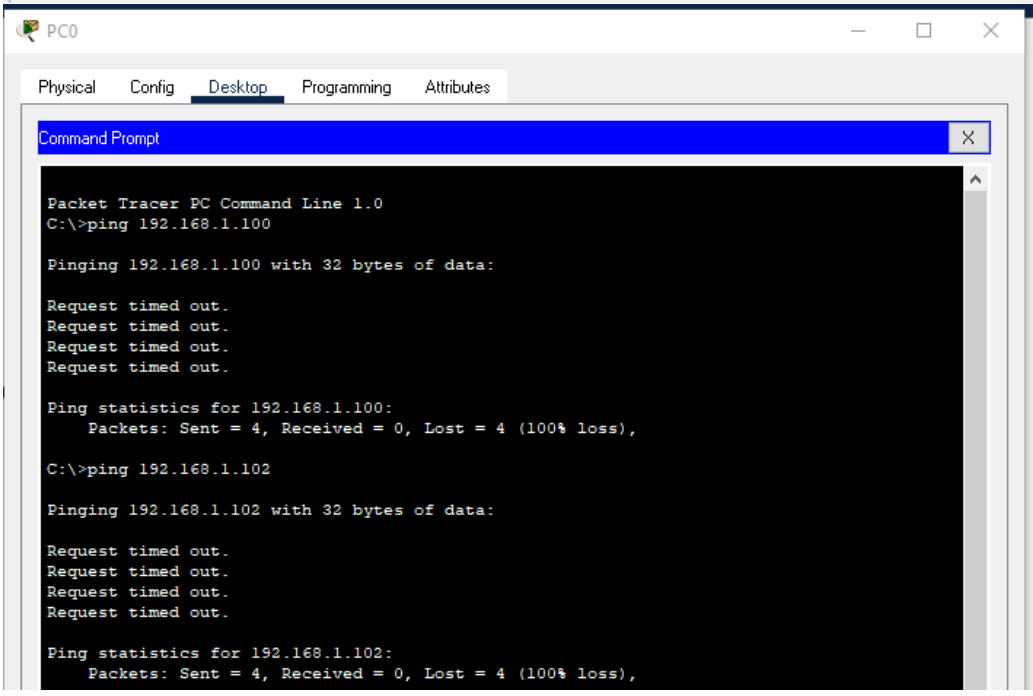
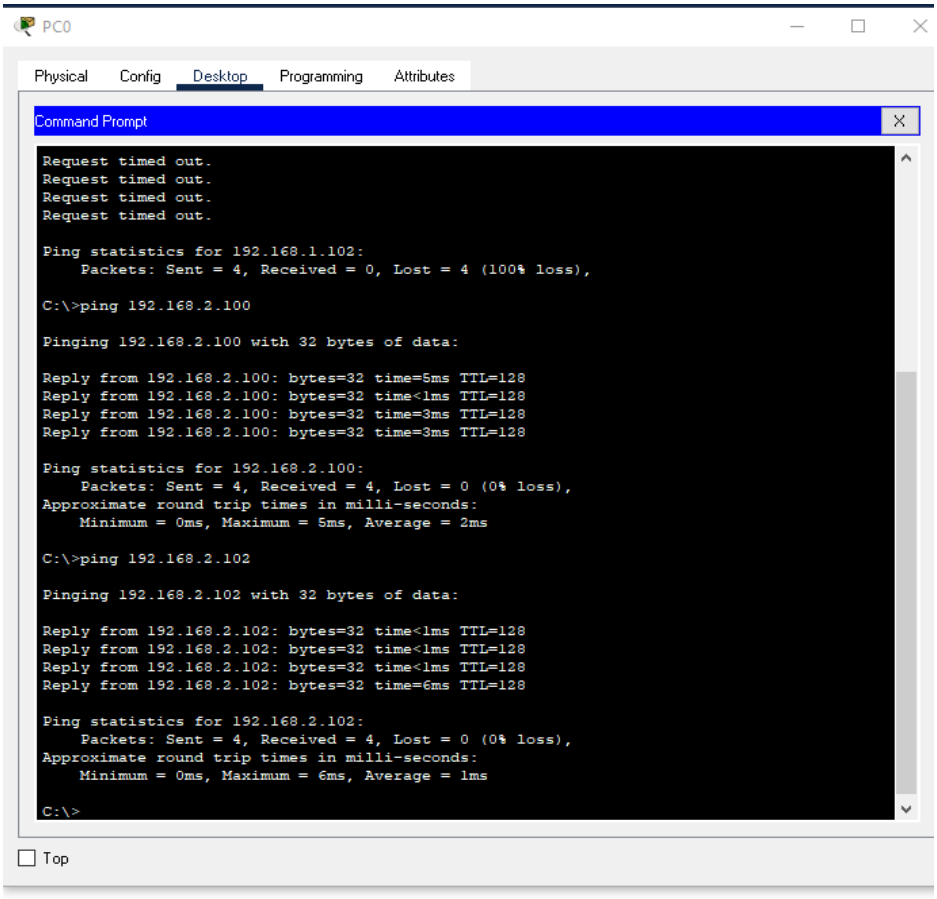
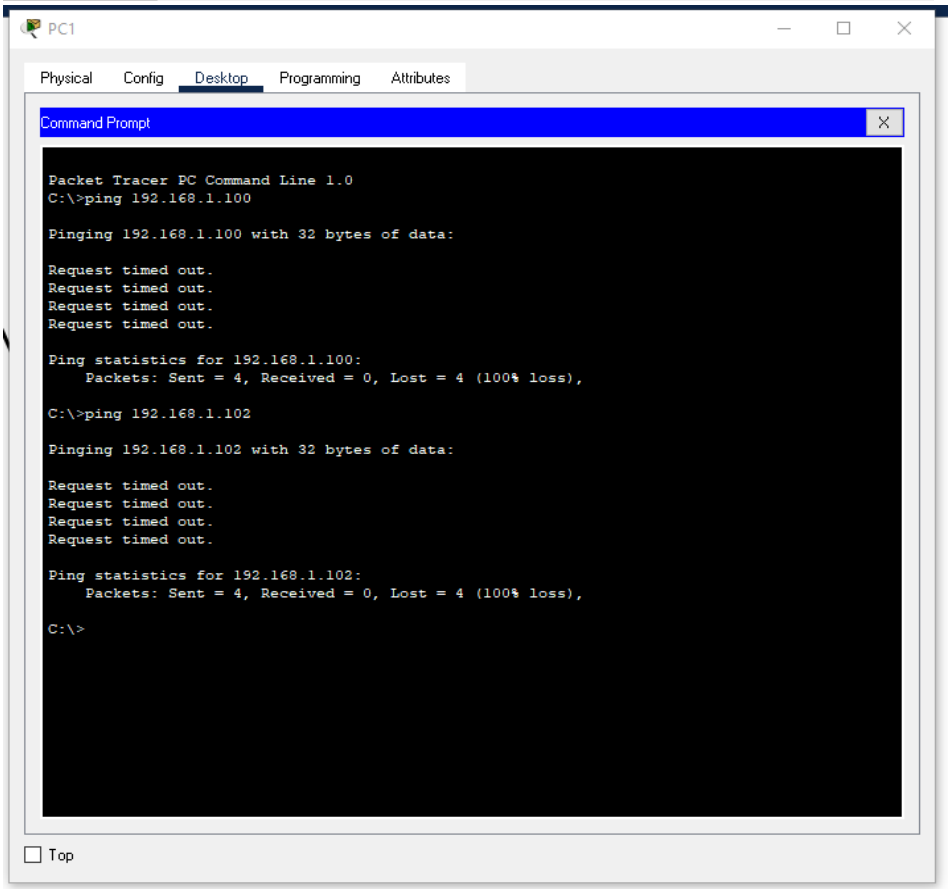
Desktop
Programming
Attributes
Command Prompt
Pinging 192.168.1.102 with 32 bytes of data:
Reply from 192.168.1.102: bytes=32 time=4ms TTL=128
Reply from 192.168.1.102: bytes=32 time=3ms TTL=128
Reply from 192.168.1.102: bytes=32 time=3ms TTL=128
Reply from 192.168.1.102: bytes=32 time=3ms TTL=128
Ping statistics for 192.168.1.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 3ms, Maximum = 4ms, Average = 3ms
C:\>ping 192.168.2.100
Pinging 192.168.2.100 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.2.100:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.2.102
Pinging 192.168.2.102 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.2.102:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
Top

4.6.2. 192.168.2.x:

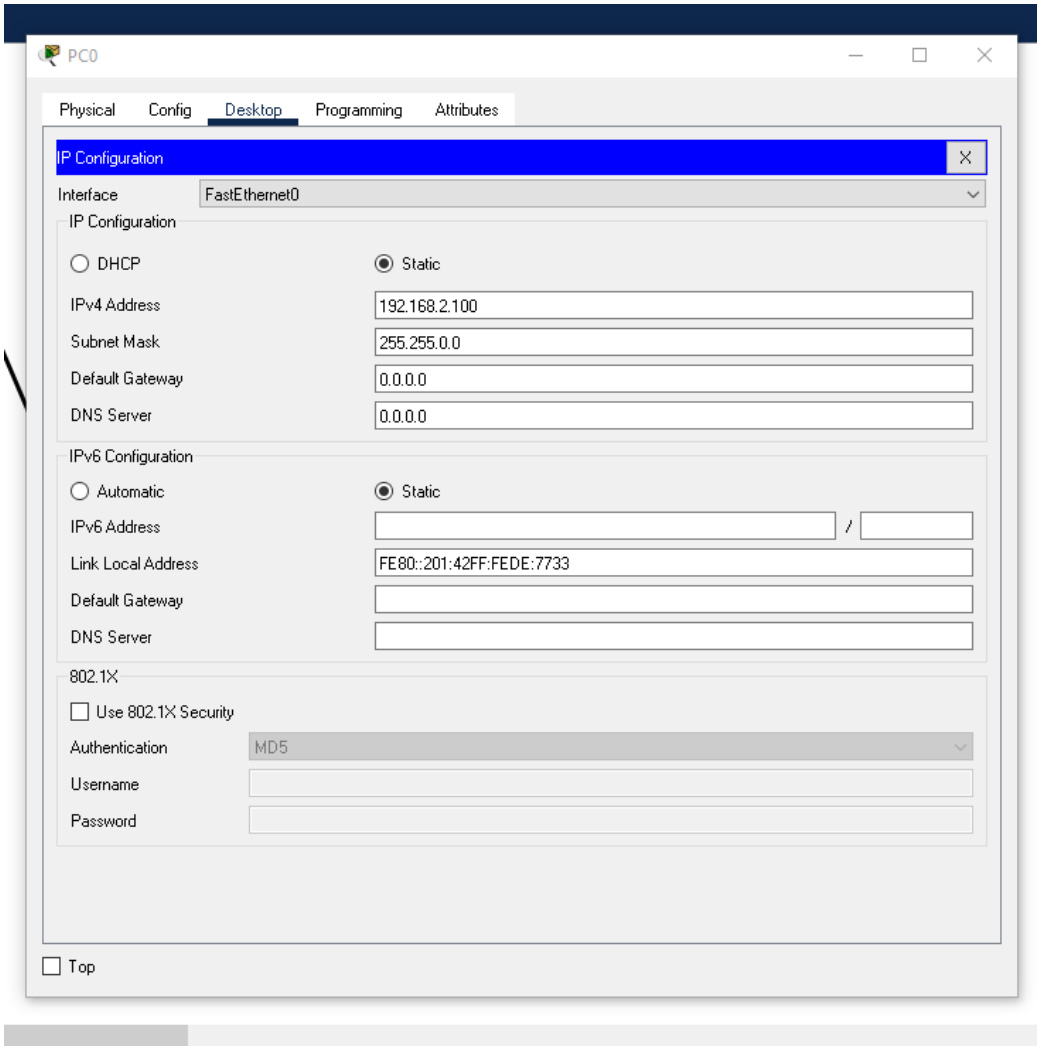




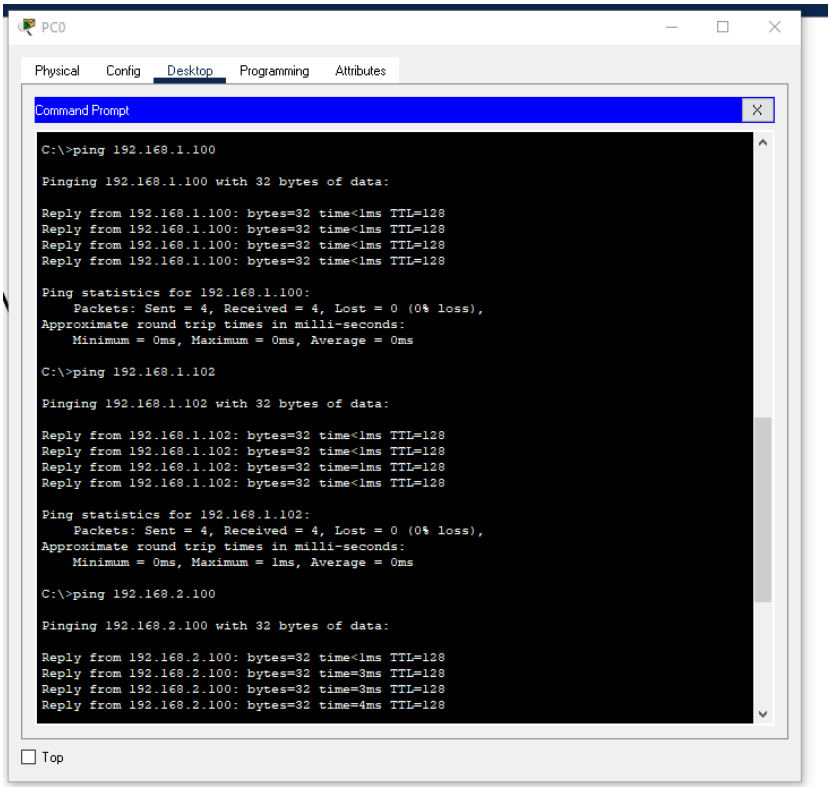

PC0
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.1.102:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.2.100
Pinging 192.168.2.100 with 32 bytes of data:
Reply from 192.168.2.100: bytes=32 time=5ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time=3ms TTL=128
Reply from 192.168.2.100: bytes=32 time=3ms TTL=128
Ping statistics for 192.168.2.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 5ms, Average = 2ms
C:\>ping 192.168.2.102
Pinging 192.168.2.102 with 32 bytes of data:
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Reply from 192.168.2.102: bytes=32 time=6ms TTL=128
Ping statistics for 192.168.2.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 6ms, Average = 1ms
C:\>
Top

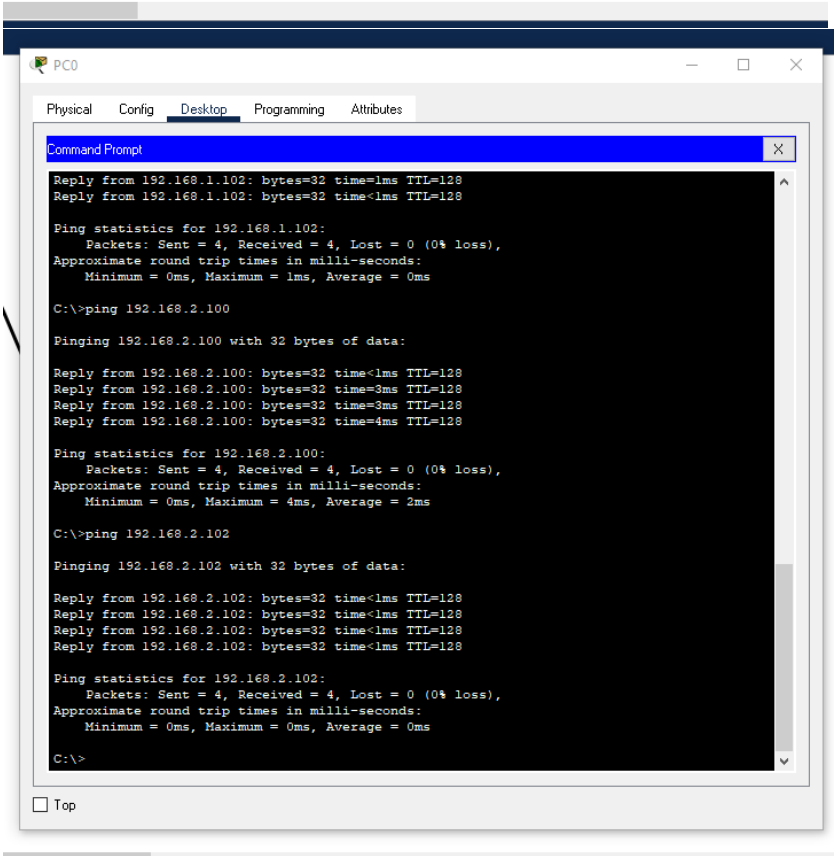

PC1
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.100
Pinging 192.168.1.100 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.1.100:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.1.102
Pinging 192.168.1.102 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.1.102:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
Top

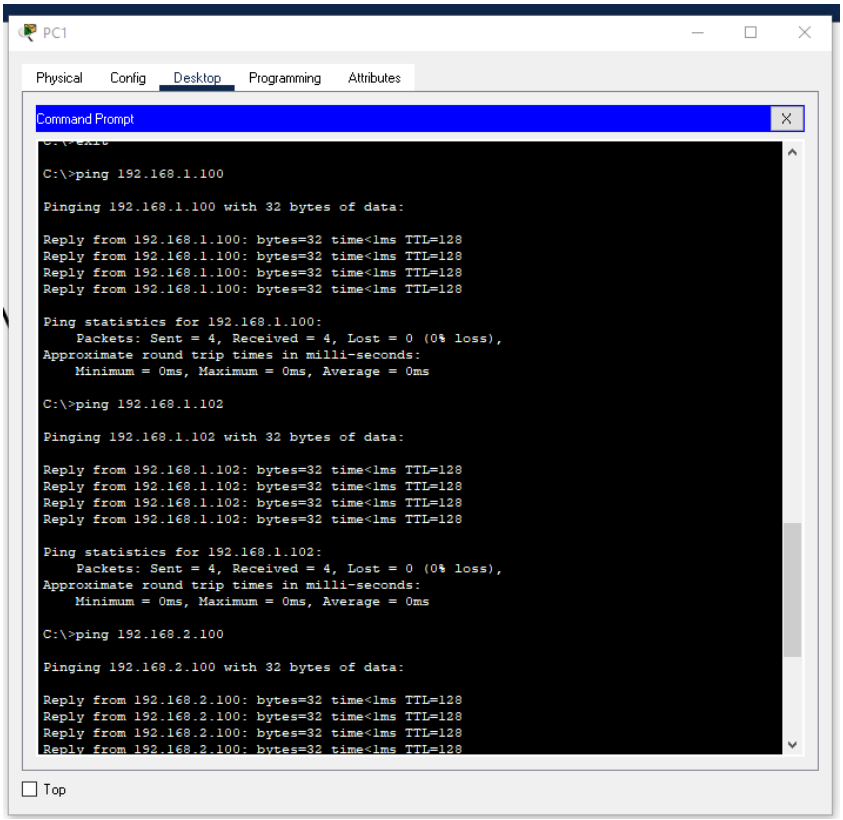
4.7. Um auf /16 zu kommen muss die Subnet Maske auf 255.255.0.0 geändert werden.

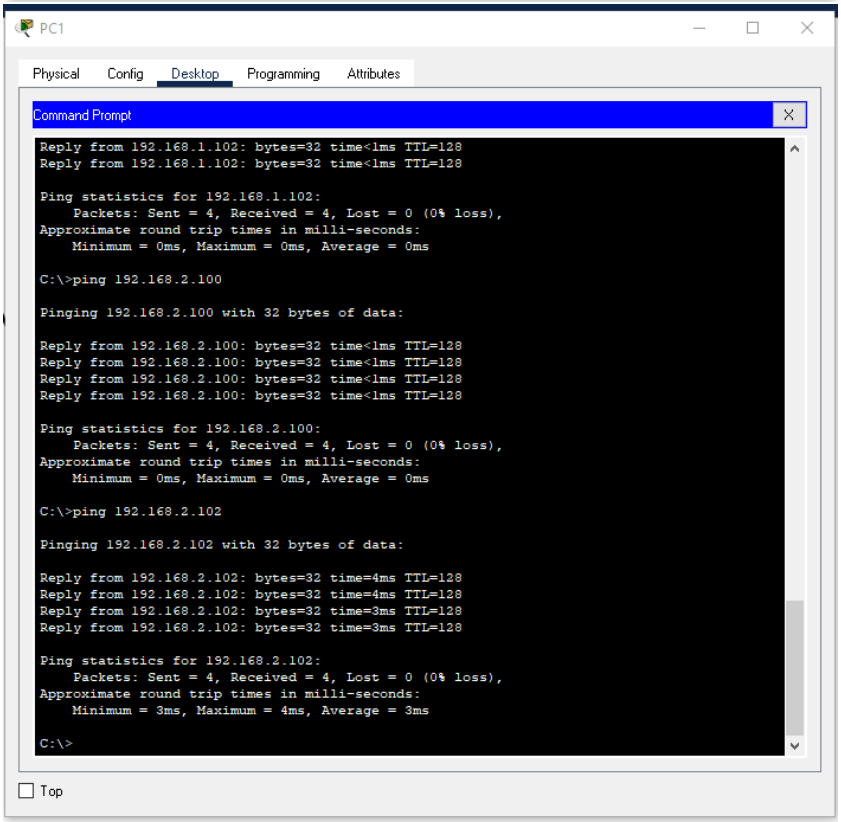


4.7.1.Resultate:






PC1
Physical
Config
Desktop
Programming
Attributes
Command Prompt
C:\>ping 192.168.1.100
Pinging 192.168.1.100 with 32 bytes of data:
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.1.102
Pinging 192.168.1.102 with 32 bytes of data:
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.2.100
Pinging 192.168.2.100 with 32 bytes of data:
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Top


PC1
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.2.100
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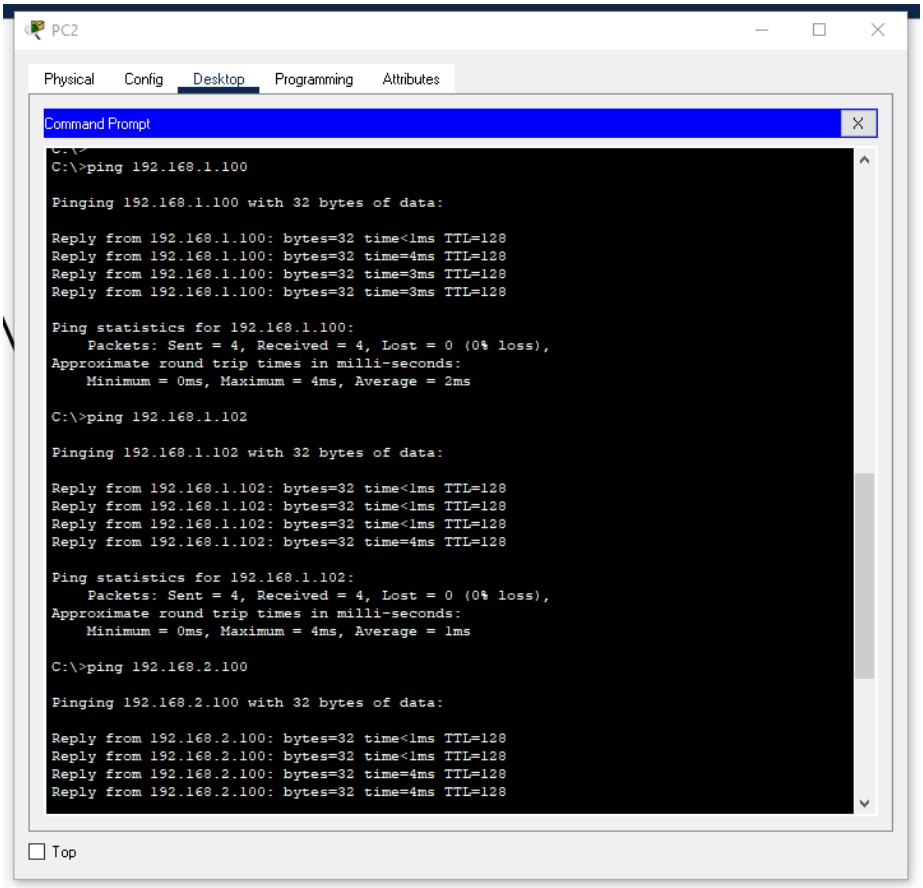
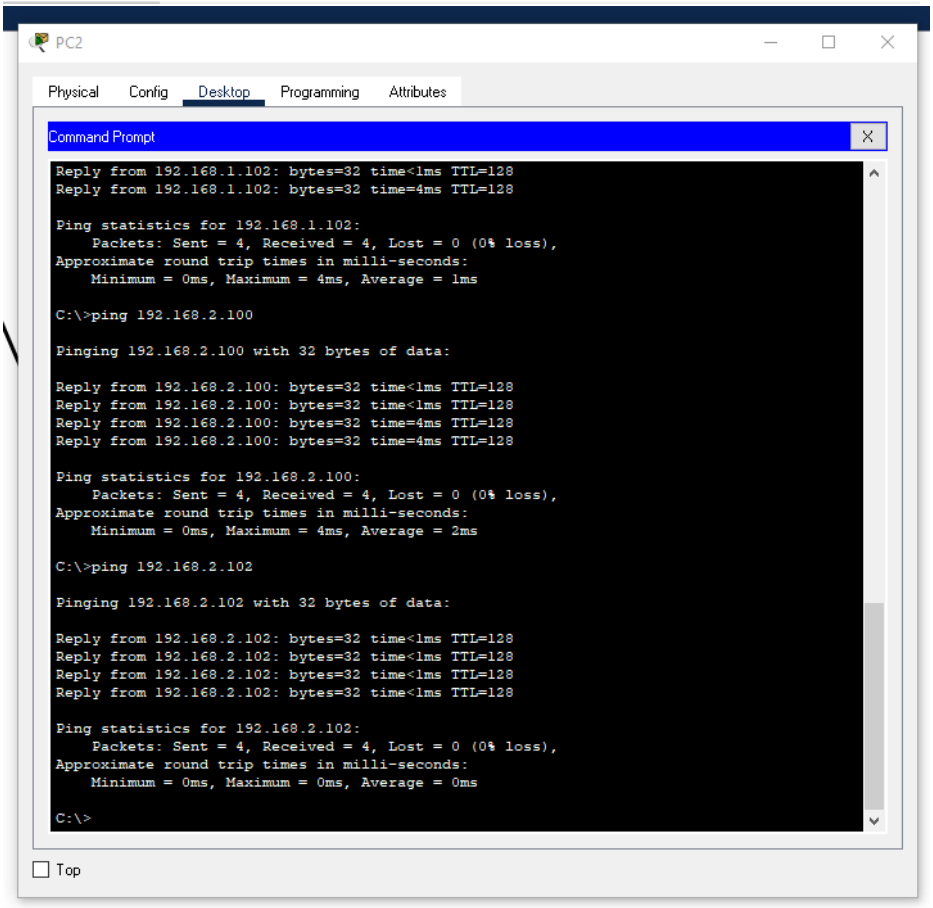
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.2.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.2.102
Pinging 192.168.2.102 with 32 bytes of data:
Reply from 192.168.2.102: bytes=32 time=4ms TTL=128
Reply from 192.168.2.102: bytes=32 time=4ms TTL=128
Reply from 192.168.2.102: bytes=32 time=3ms TTL=128
Reply from 192.168.2.102: bytes=32 time=3ms TTL=128
Ping statistics for 192.168.2.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 3ms, Maximum = 4ms, Average = 3ms
C:\>
Top


PC2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
C:\>ping 192.168.1.100
Pinging 192.168.1.100 with 32 bytes of data:
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Reply from 192.168.1.100: bytes=32 time=4ms TTL=128
Reply from 192.168.1.100: bytes=32 time=3ms TTL=128
Reply from 192.168.1.100: bytes=32 time=3ms TTL=128
Ping statistics for 192.168.1.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 4ms, Average = 2ms
C:\>ping 192.168.1.102
Pinging 192.168.1.102 with 32 bytes of data:
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time=4ms TTL=128
Ping statistics for 192.168.1.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 4ms, Average = 1ms
C:\>ping 192.168.2.100
Pinging 192.168.2.100 with 32 bytes of data:
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time=4ms TTL=128
Reply from 192.168.2.100: bytes=32 time=4ms TTL=128
Top


PC2
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Config
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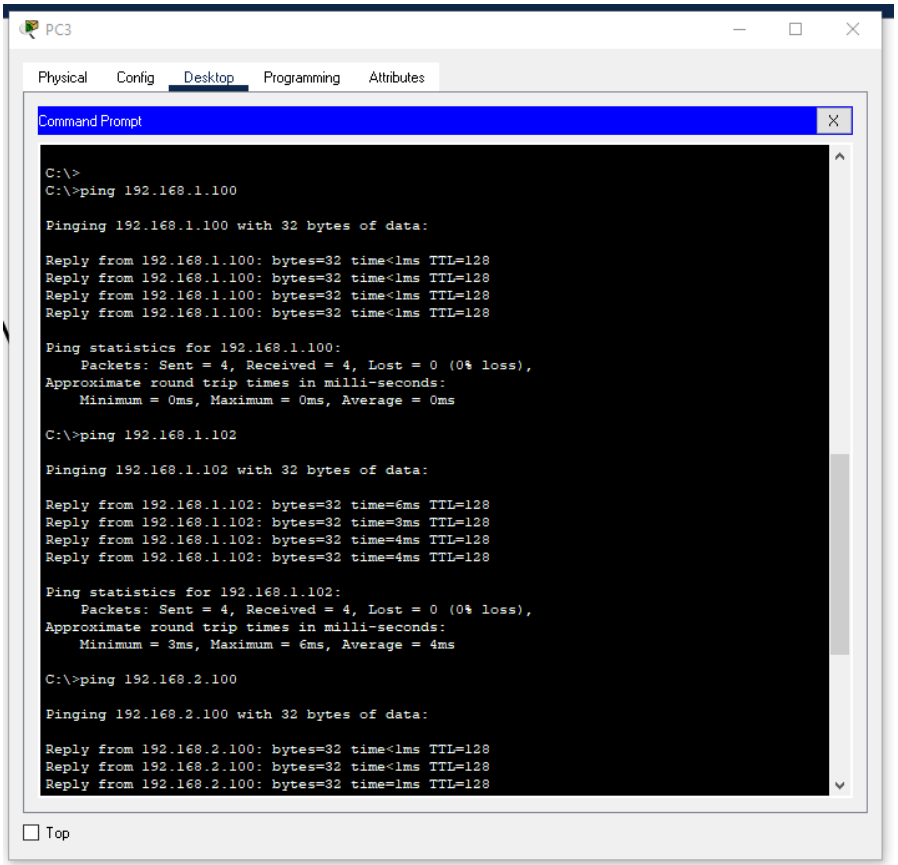
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time=4ms TTL=128
Ping statistics for 192.168.1.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 4ms, Average = 1ms
C:\>ping 192.168.2.100
Pinging 192.168.2.100 with 32 bytes of data:
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time=4ms TTL=128
Reply from 192.168.2.100: bytes=32 time=4ms TTL=128
Ping statistics for 192.168.2.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 4ms, Average = 2ms
C:\>ping 192.168.2.102
Pinging 192.168.2.102 with 32 bytes of data:
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.2.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
Top


PC3
Physical
Config
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Programming
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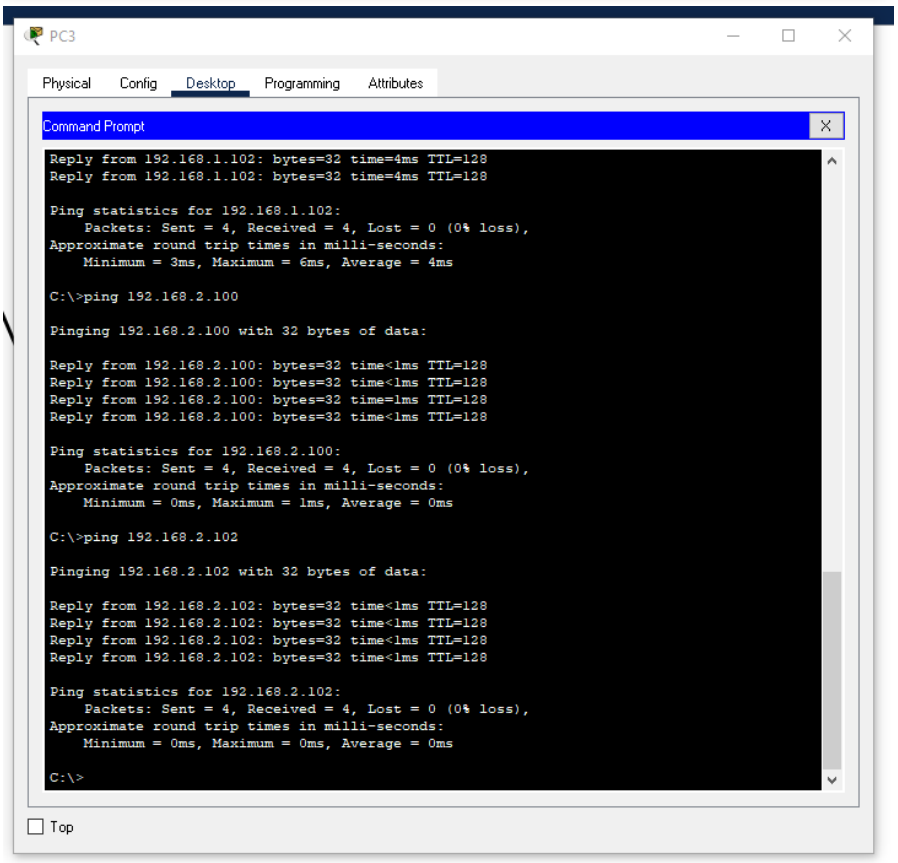
Command Prompt
C:\>
C:\>ping 192.168.1.100
Pinging 192.168.1.100 with 32 bytes of data:
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.1.102
Pinging 192.168.1.102 with 32 bytes of data:
Reply from 192.168.1.102: bytes=32 time=6ms TTL=128
Reply from 192.168.1.102: bytes=32 time=3ms TTL=128
Reply from 192.168.1.102: bytes=32 time=4ms TTL=128
Reply from 192.168.1.102: bytes=32 time=4ms TTL=128
Ping statistics for 192.168.1.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 3ms, Maximum = 6ms, Average = 4ms
C:\>ping 192.168.2.100
Pinging 192.168.2.100 with 32 bytes of data:
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time=1ms TTL=128
Top


PC3
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Reply from 192.168.1.102: bytes=32 time=4ms TTL=128
Reply from 192.168.1.102: bytes=32 time=4ms TTL=128
Ping statistics for 192.168.1.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 3ms, Maximum = 6ms, Average = 4ms
C:\>ping 192.168.2.100
Pinging 192.168.2.100 with 32 bytes of data:
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time=1ms TTL=128
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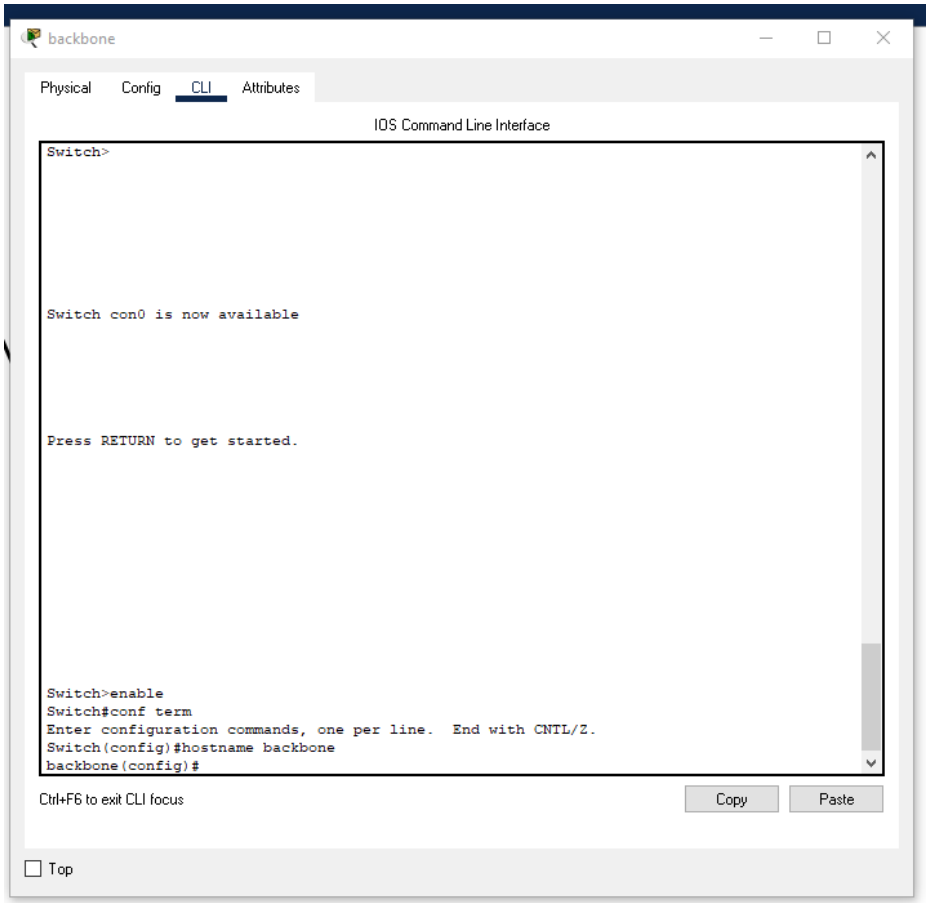
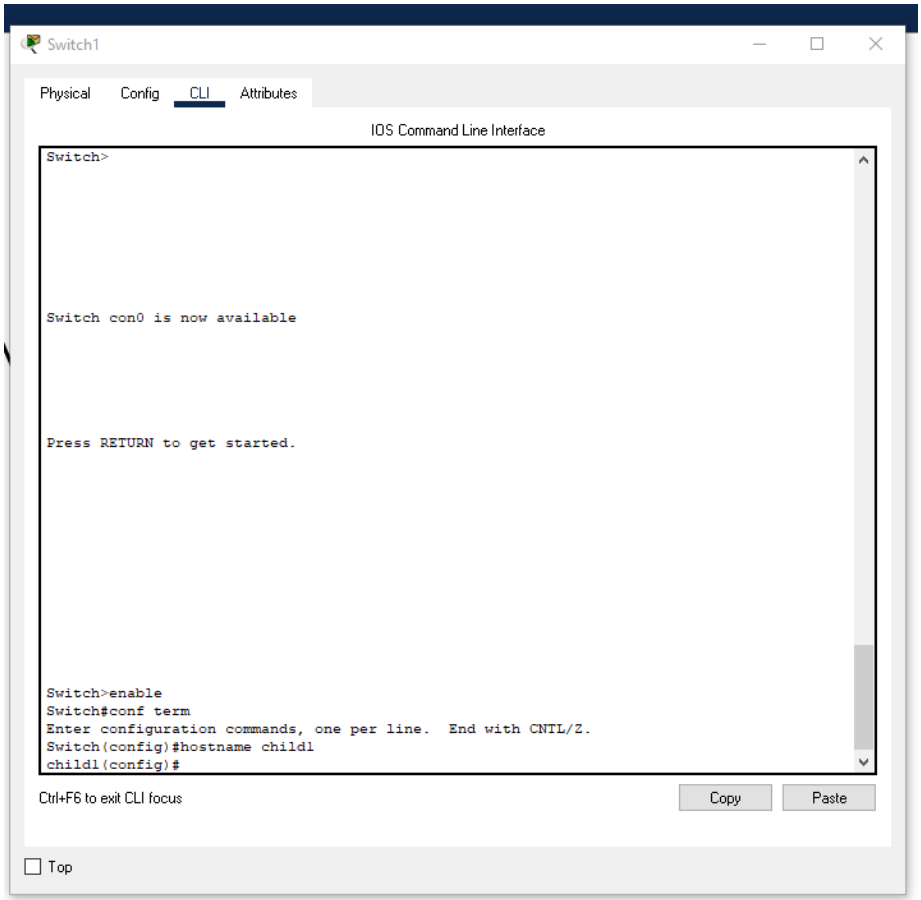
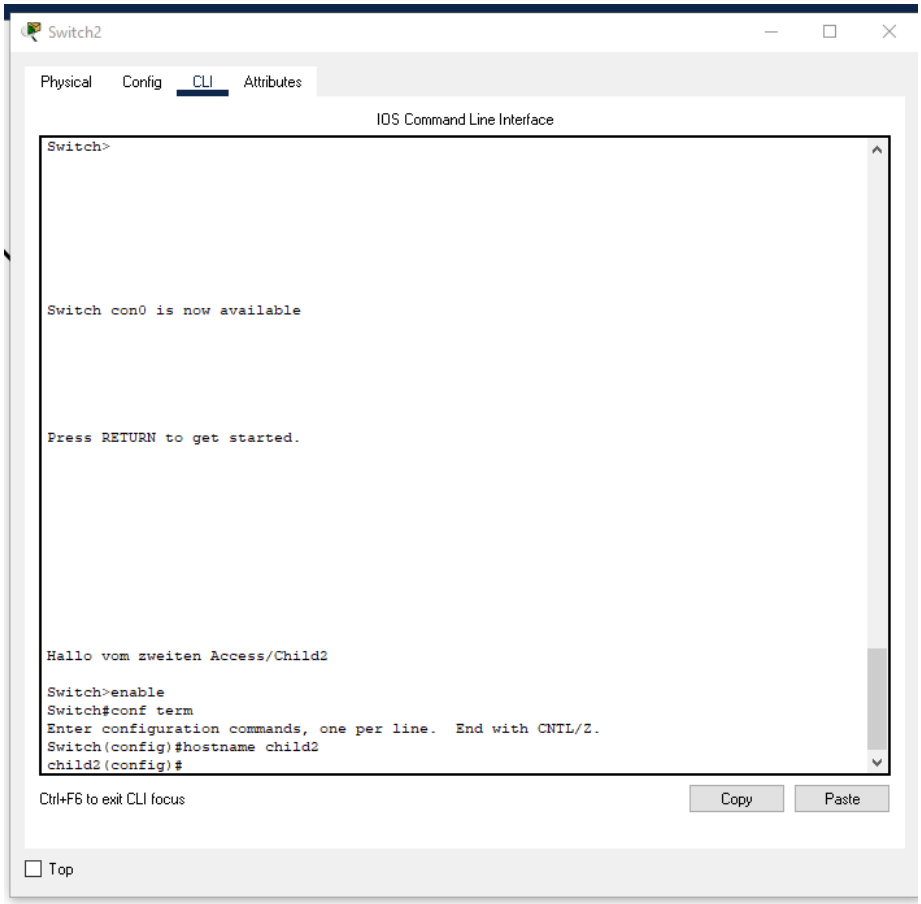
Ping statistics for 192.168.2.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>ping 192.168.2.102
Pinging 192.168.2.102 with 32 bytes of data:
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.2.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
Top

Konfiguration der Switches

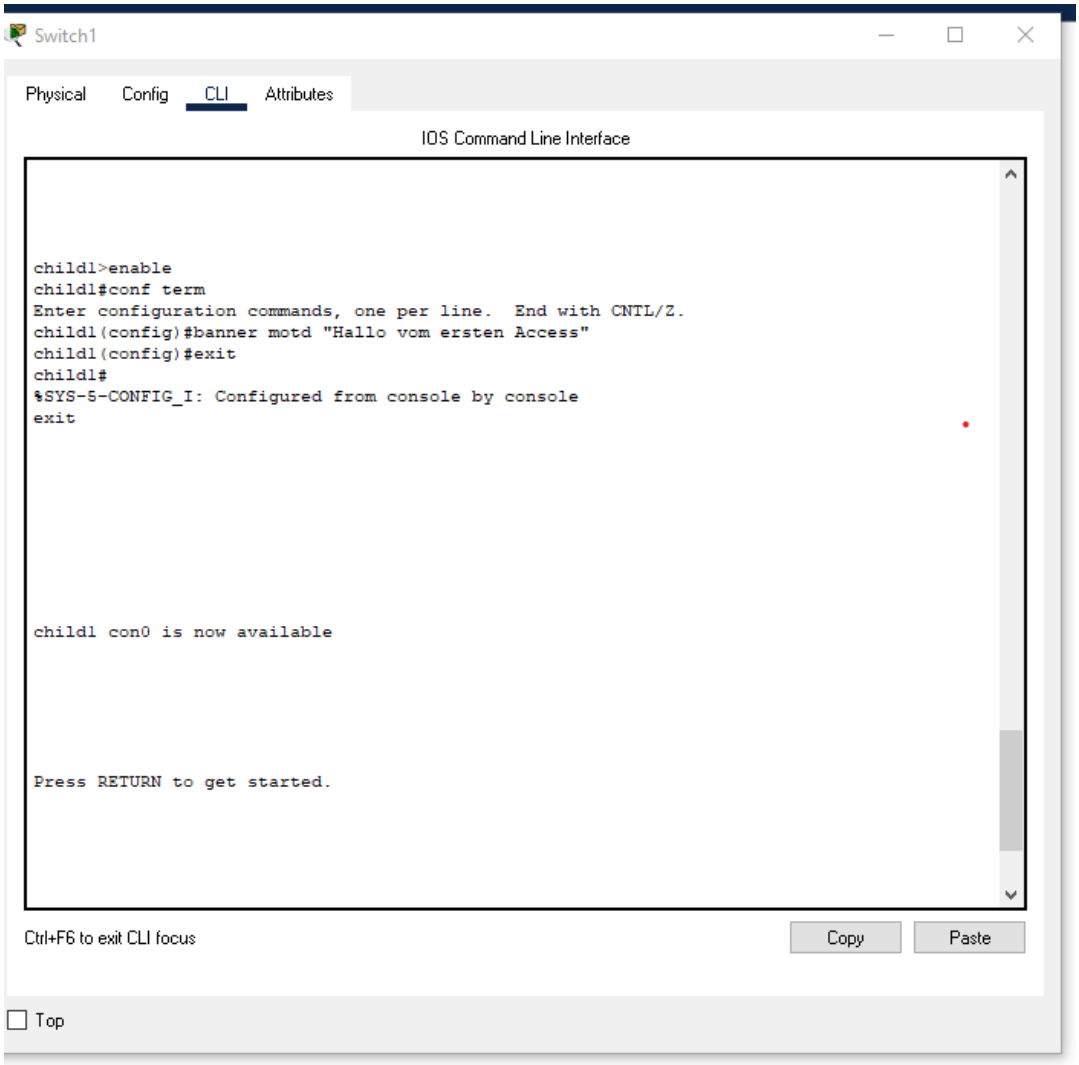
1. Namen der Switches ändern
   1.1. Um den Namen ändern zu können muss man den jeweiligen Switch anklicken und in der Tabbar die CLI wählen.
   1.2. Danach muss man “enable” eingeben um in den “Privileged Mode” zu gelangen und dann conf term eingeben um in den “Global Conf Mode” zu gelangen.
   1.3. Erst dann kann man den hostname ändern.
   1.4. Der Befehl lautet dann “#hostname <name>”
   1.5. Resultate:

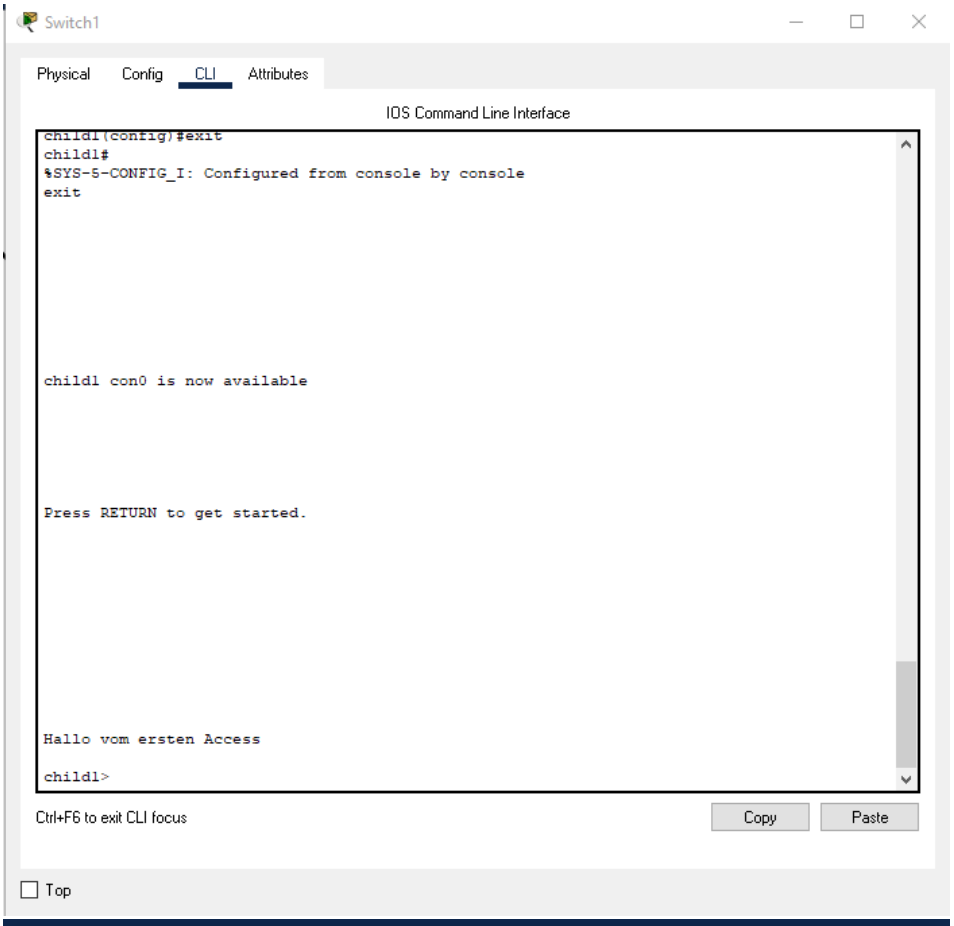


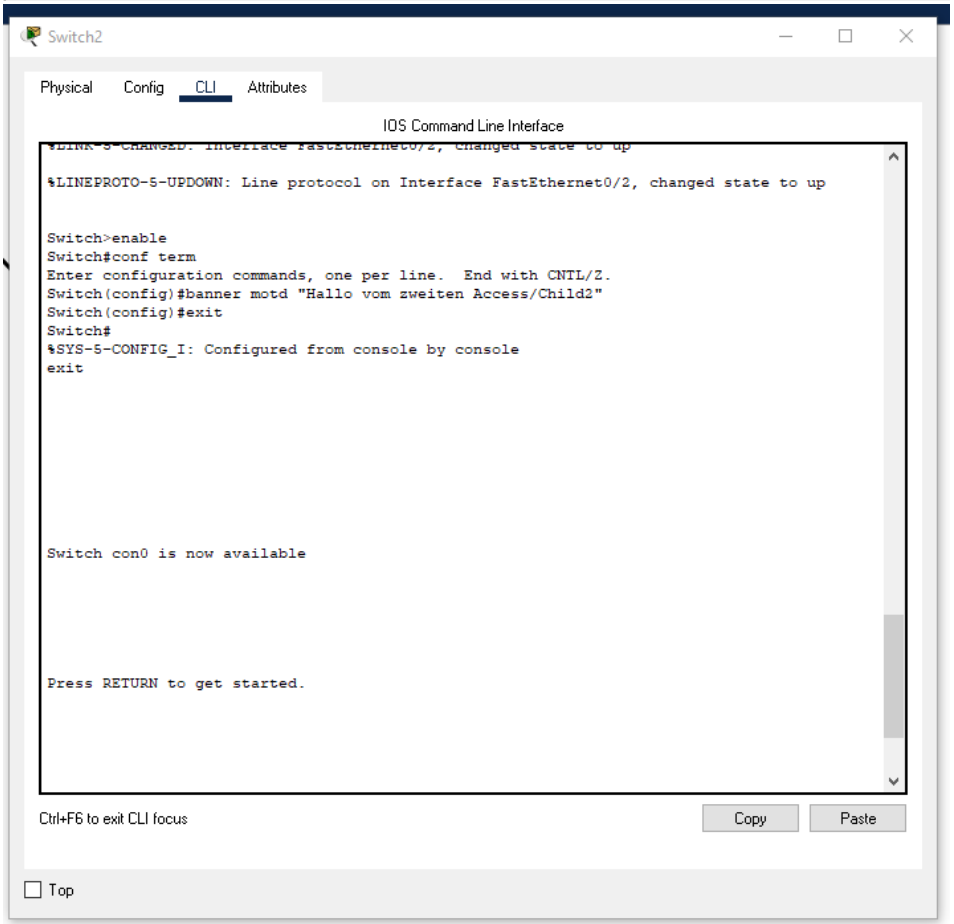

Switch1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch>
Switch con0 is now available
Press RETURN to get started.
Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname child1
child1(config)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


Switch2
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch>
Switch con0 is now available
Press RETURN to get started.
Hallo vom zweiten Access/Child2
Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname child2
child2(config)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

2. Message of the Day:
   2.1. Genau wie zuvor muss man im “Global Conf Mode” sein.
   2.2. Dort gibt man dann den Befehl:
   #banner motd <message>
   2.3. Resultate:




Switch1
Physical
Config
CLI
Attributes
IOS Command Line Interface
childl(config)#exit
childl#
%SYS-5-CONFIG_I: Configured from console by console
exit
childl con0 is now available
Press RETURN to get started.
Hallo vom ersten Access
childl>
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


Switch2
Physical
Config
CLI
Attributes
IOS Command Line Interface
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#banner motd "Hallo vom zweiten Access/Child2"
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console
exit
Switch con0 is now available
Press RETURN to get started.
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

Switch2

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console
exit



Switch con0 is now available



Press RETURN to get started.









Hallo vom zweiten Access/Child2

Switch>
```

Ctrl+F6 to exit CLI focus Copy Paste

Top

Switch0

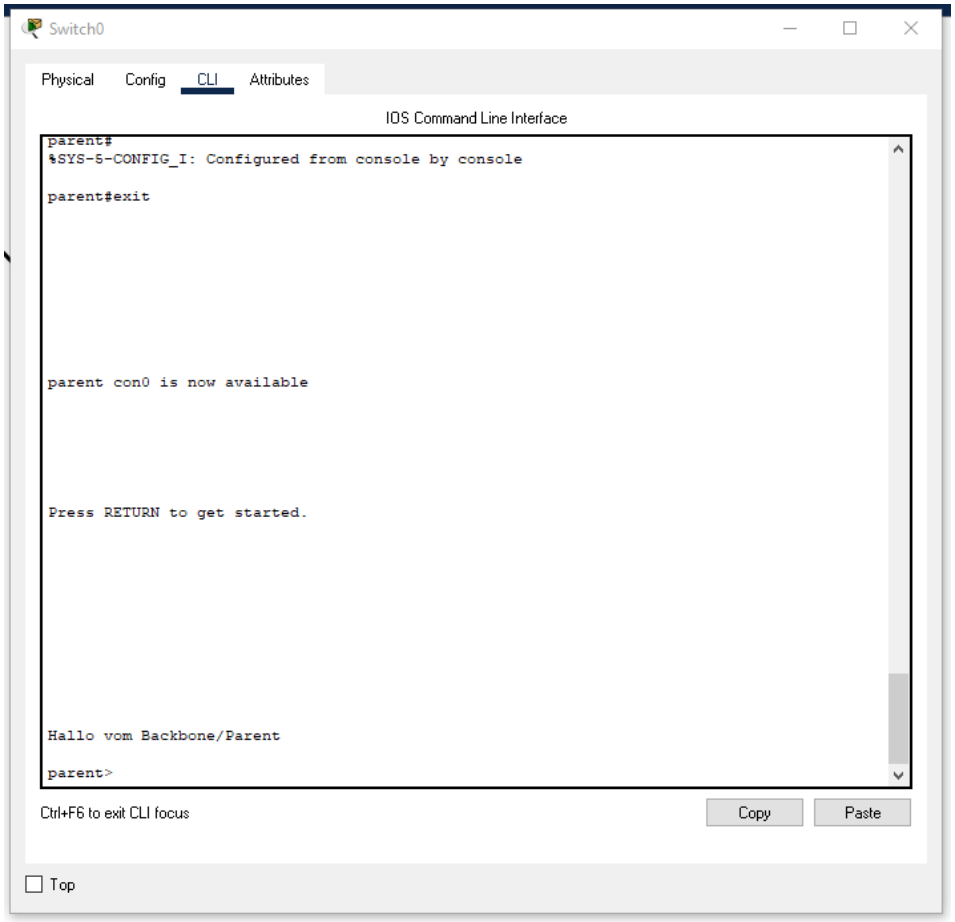
Physical Config CLI Attributes

IOS Command Line Interface

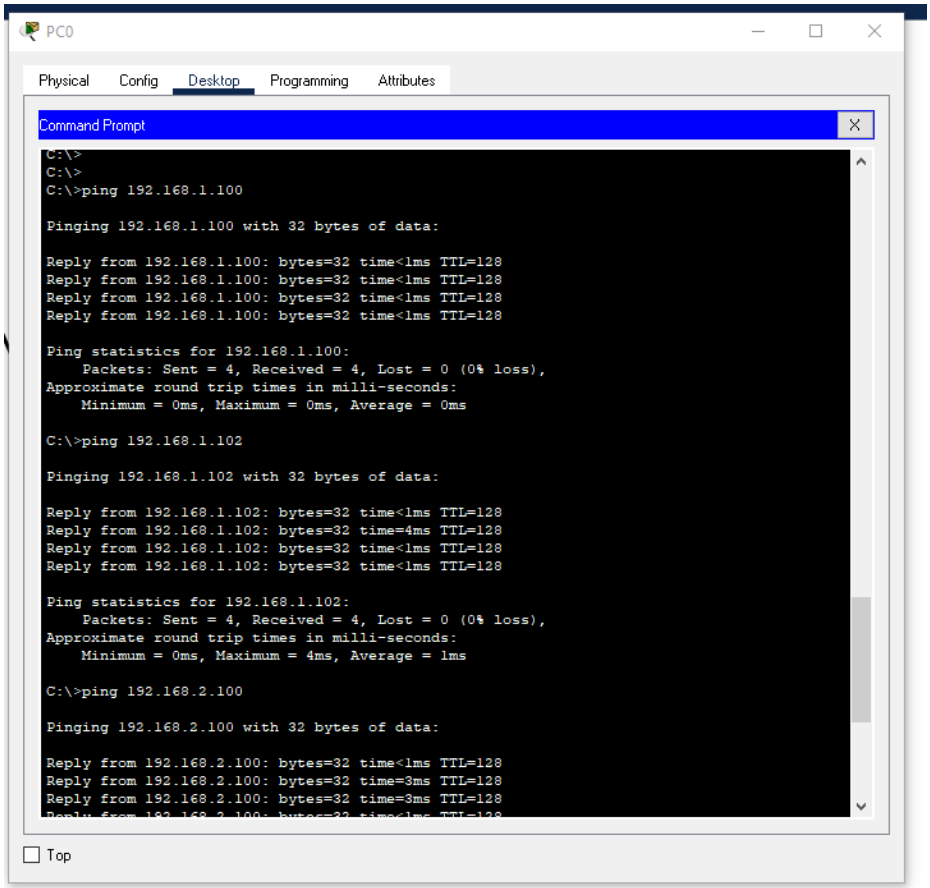
```


parent>conf term
            ^
% Invalid input detected at '^' marker.

parent>enable
parent#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
parent(config)#
parent#
%SYS-5-CONFIG_I: Configured from console by console
enable
parent#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
parent(config)#banner-motd motd "Hallo vom Backbone/Parent"
                    ^
% Invalid input detected at '^' marker.

parent(config)#banner-motd banner "Tages Nachricht" motd "Hallo vom Backbone/Parent"
                    ^
% Invalid input detected at '^' marker.

parent(config)#banner motd "Hallo vom Backbone/Parent"
parent(config)#exit
parent#
%SYS-5-CONFIG_I: Configured from console by console

parent#exit
```

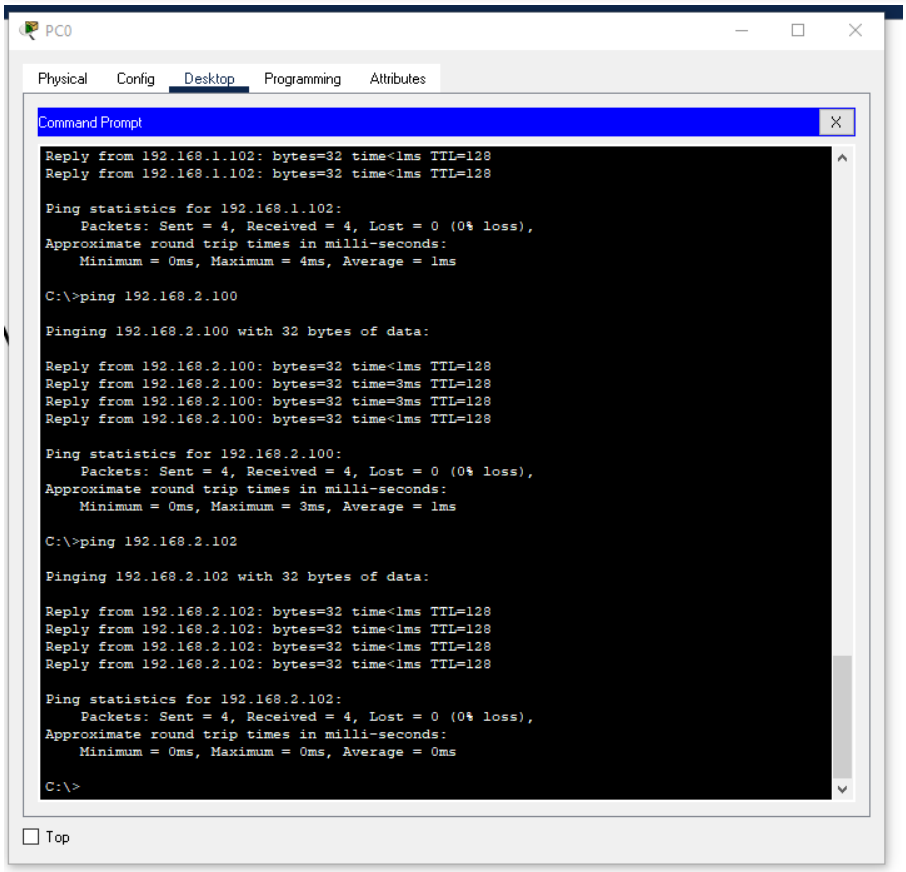
Ctrl+F6 to exit CLI focus Copy Paste

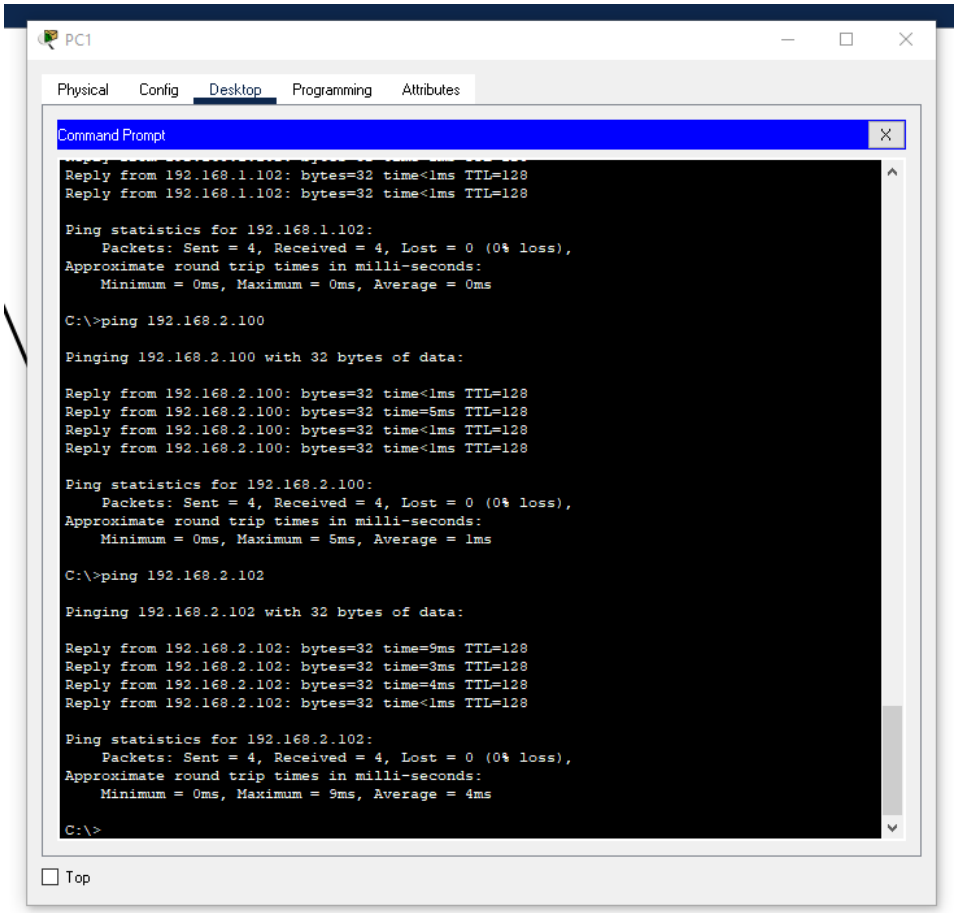
Top

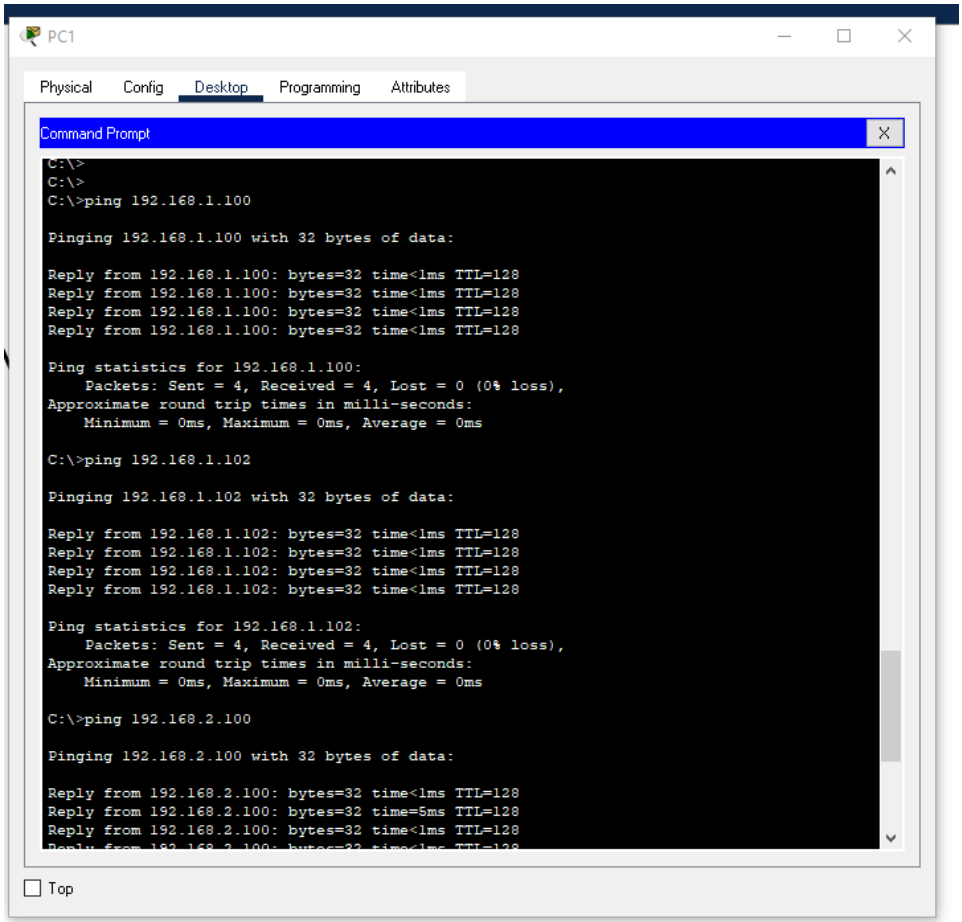

Switch0
Physical
Config
CLI
Attributes
IOS Command Line Interface
parent#
%SYS-5-CONFIG_I: Configured from console by console
parent#exit
parent con0 is now available
Press RETURN to get started.
Hallo vom Backbone/Parent
parent>
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

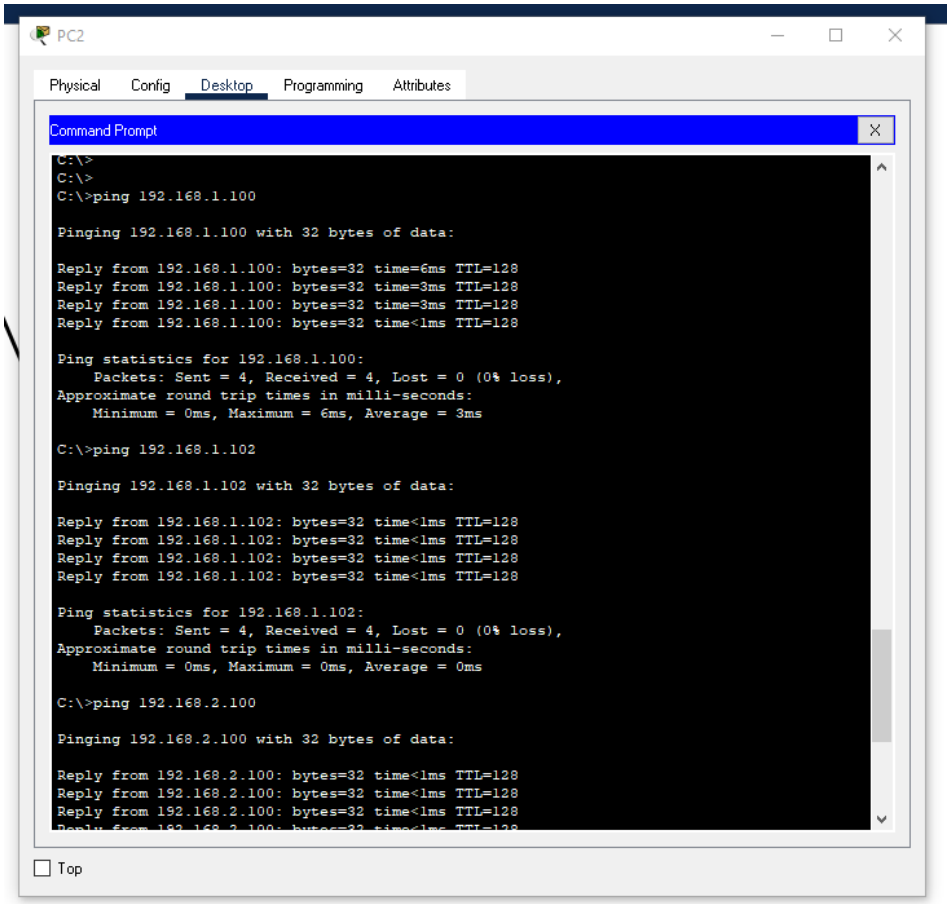
Test nach Änderung:

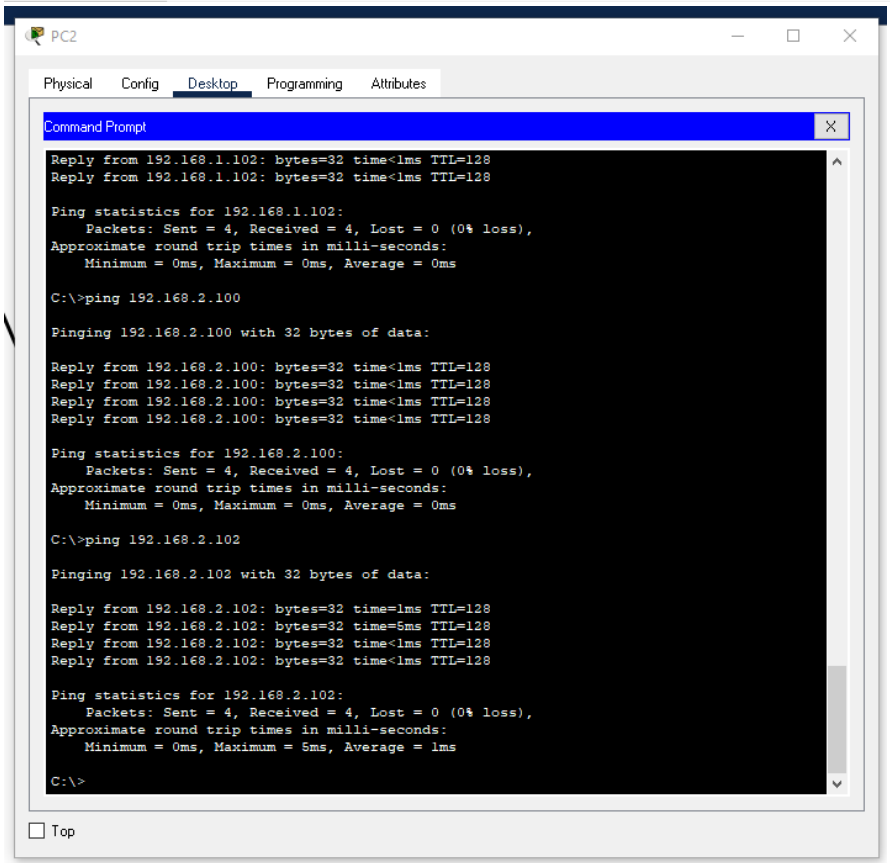


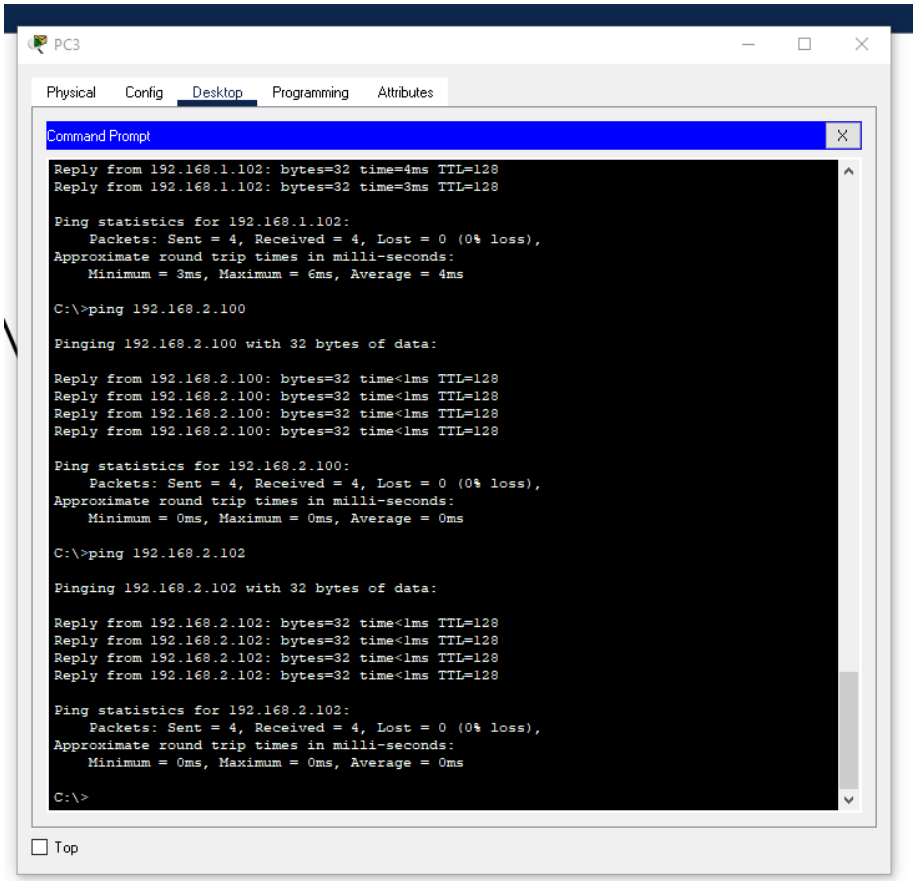


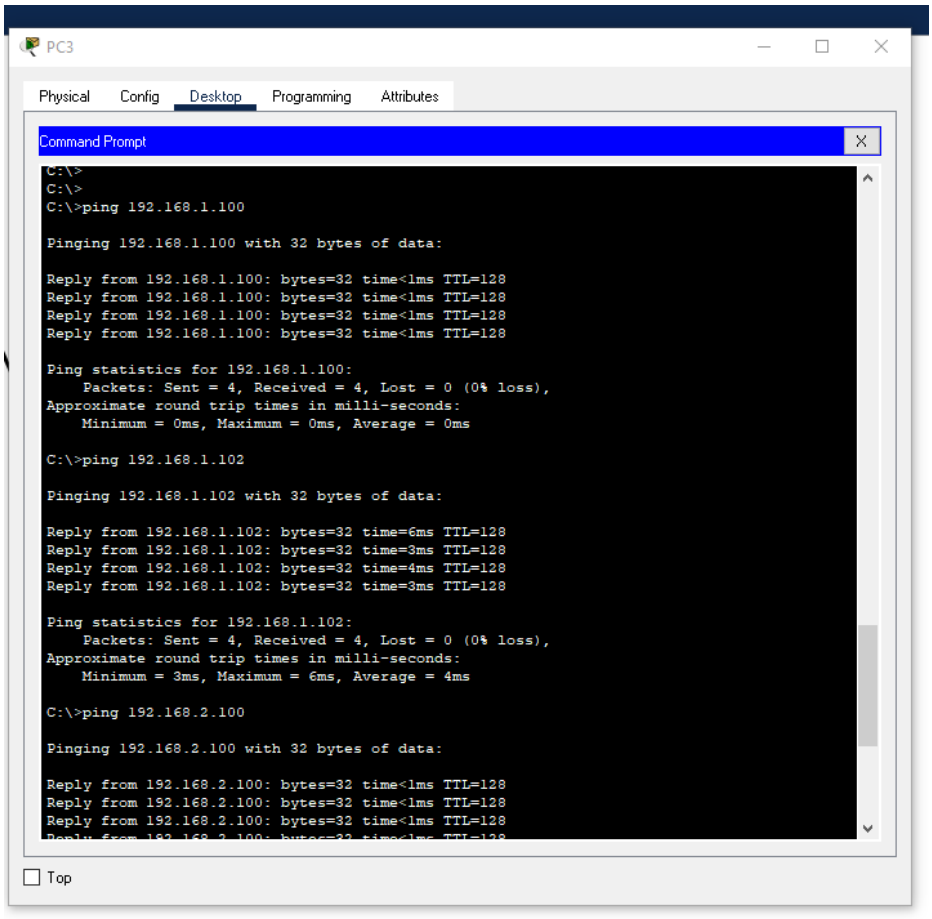

PC1
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.2.100
Pinging 192.168.2.100 with 32 bytes of data:
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time=5ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.2.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 5ms, Average = 1ms
C:\>ping 192.168.2.102
Pinging 192.168.2.102 with 32 bytes of data:
Reply from 192.168.2.102: bytes=32 time=9ms TTL=128
Reply from 192.168.2.102: bytes=32 time=3ms TTL=128
Reply from 192.168.2.102: bytes=32 time=4ms TTL=128
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.2.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 9ms, Average = 4ms
C:\>
Top


PC1
Physical
Config
Desktop
Programming
Attributes
Command Prompt
C:\>
C:\>
C:\>ping 192.168.1.100
Pinging 192.168.1.100 with 32 bytes of data:
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.1.102
Pinging 192.168.1.102 with 32 bytes of data:
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.2.100
Pinging 192.168.2.100 with 32 bytes of data:
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time=5ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Top


PC2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
C:\>
C:\>
C:\>ping 192.168.1.100
Pinging 192.168.1.100 with 32 bytes of data:
Reply from 192.168.1.100: bytes=32 time=6ms TTL=128
Reply from 192.168.1.100: bytes=32 time=3ms TTL=128
Reply from 192.168.1.100: bytes=32 time=3ms TTL=128
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 6ms, Average = 3ms
C:\>ping 192.168.1.102
Pinging 192.168.1.102 with 32 bytes of data:
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.2.100
Pinging 192.168.2.100 with 32 bytes of data:
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Top


PC2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.2.100
Pinging 192.168.2.100 with 32 bytes of data:
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.2.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.2.102
Pinging 192.168.2.102 with 32 bytes of data:
Reply from 192.168.2.102: bytes=32 time=1ms TTL=128
Reply from 192.168.2.102: bytes=32 time=5ms TTL=128
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.2.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 5ms, Average = 1ms
C:\>
Top


PC3
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Reply from 192.168.1.102: bytes=32 time=4ms TTL=128
Reply from 192.168.1.102: bytes=32 time=3ms TTL=128
Ping statistics for 192.168.1.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 3ms, Maximum = 6ms, Average = 4ms
C:\>ping 192.168.2.100
Pinging 192.168.2.100 with 32 bytes of data:
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.2.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.2.102
Pinging 192.168.2.102 with 32 bytes of data:
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Reply from 192.168.2.102: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.2.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
Top


PC3
Physical
Config
Desktop
Programming
Attributes
Command Prompt
C:\>
C:\>
C:\>ping 192.168.1.100
Pinging 192.168.1.100 with 32 bytes of data:
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Reply from 192.168.1.100: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.1.102
Pinging 192.168.1.102 with 32 bytes of data:
Reply from 192.168.1.102: bytes=32 time=6ms TTL=128
Reply from 192.168.1.102: bytes=32 time=3ms TTL=128
Reply from 192.168.1.102: bytes=32 time=4ms TTL=128
Reply from 192.168.1.102: bytes=32 time=3ms TTL=128
Ping statistics for 192.168.1.102:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 3ms, Maximum = 6ms, Average = 4ms
C:\>ping 192.168.2.100
Pinging 192.168.2.100 with 32 bytes of data:
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
Reply from 192.168.2.100: bytes=32 time<1ms TTL=128
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