

## **Assignment 6.1: Configure SNMP for Network Monitoring and Configuration**

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NTW103 - Fundamentals of Network Engineering II - OCT23113

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### Assignment 7.1: The Hands-On Final: The Netbroke

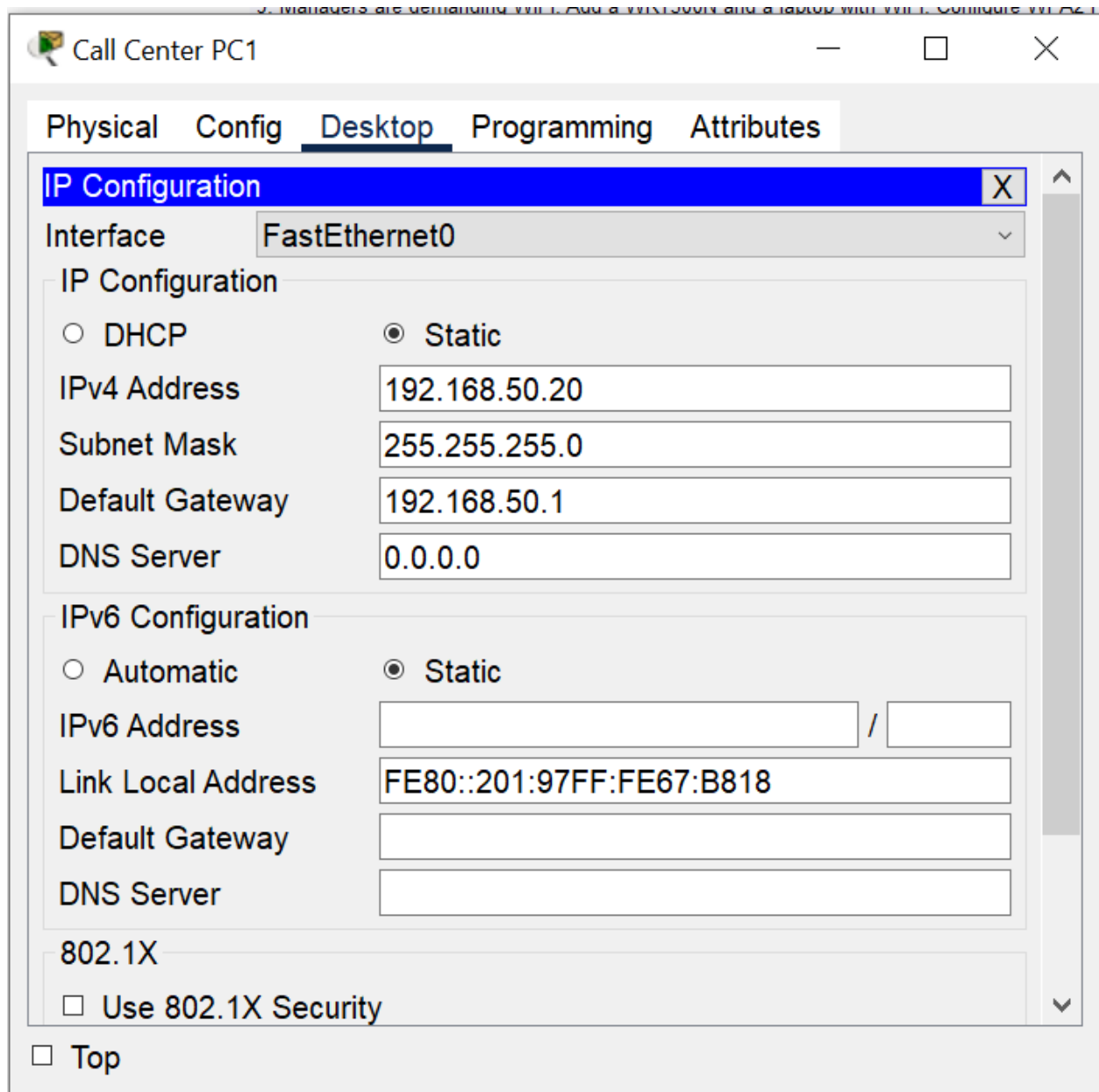
1.

The First Major problem the network had was the “Kind of a Big Deal” router wasn’t powered on.



2.

The Reason PC Call Center 1 couldn't connect to the internet was because no IP address was configured to his computer. I configured 192.168.50.20 to his computer and pinged the router, 192.168.50.1, and a random computer on the network, 192.168.50.2.



```
Pinging 192.168.50.1 with 32 bytes of data:
```

```
Reply from 192.168.50.1: bytes=32 time<1ms TTL=255
```

```
Reply from 192.168.50.1: bytes=32 time<1ms TTL=255
```

```
Reply from 192.168.50.1: bytes=32 time<1ms TTL=255
```

```
Reply from 192.168.50.1: bytes=32 time<1ms TTL=255
```

```
Ping statistics for 192.168.50.1:
```

```
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
```

```
Approximate round trip times in milli-seconds:
```

```
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

```
C:\>ping 192.168.50.2
```

```
Pinging 192.168.50.2 with 32 bytes of data:
```

```
Reply from 192.168.50.2: bytes=32 time<1ms TTL=128
```

```
Reply from 192.168.50.2: bytes=32 time<1ms TTL=128
```

```
Reply from 192.168.50.2: bytes=32 time<1ms TTL=128
```

```
Reply from 192.168.50.2: bytes=32 time<1ms TTL=128
```

```
Ping statistics for 192.168.50.2:
```

```
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
```

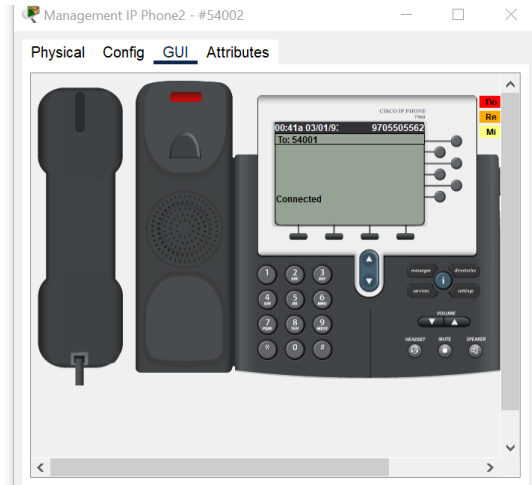
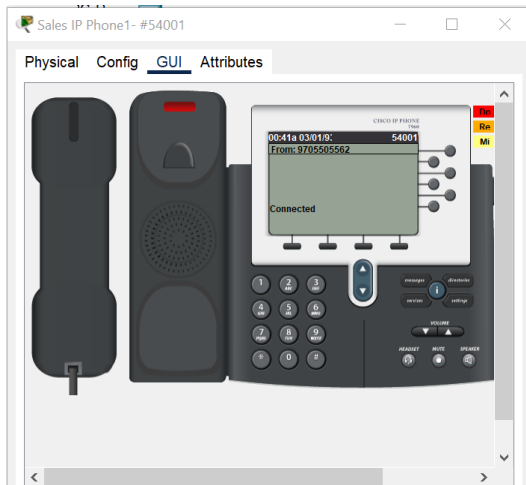
```
Approximate round trip times in milli-seconds:
```

```
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

```
C:\>|
```

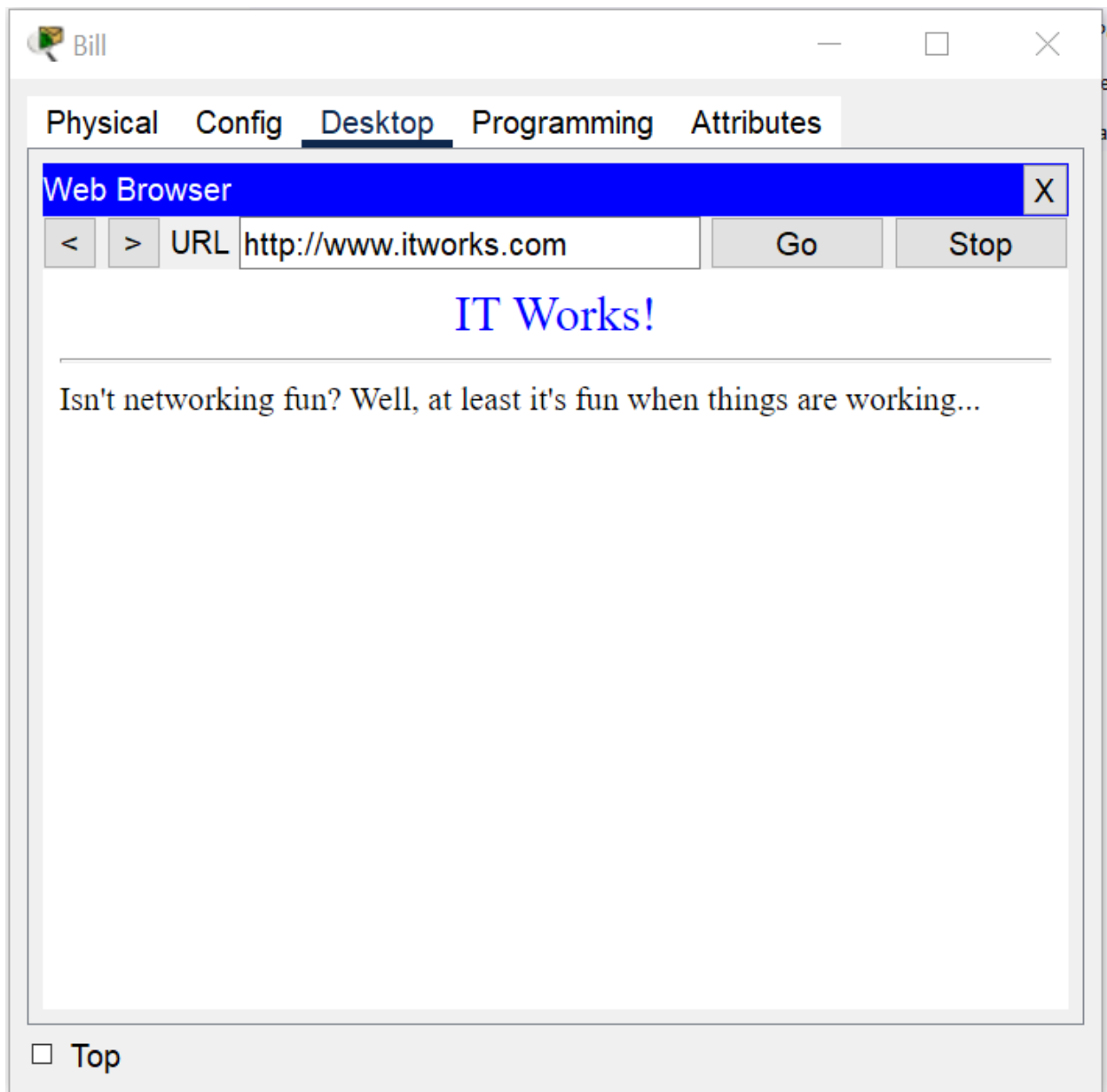
3.

For the Management IP Phone 2, The phone itself was unplugged and the router was connected to the wrong vlan. The router should be connected to vlan1 not vlan10



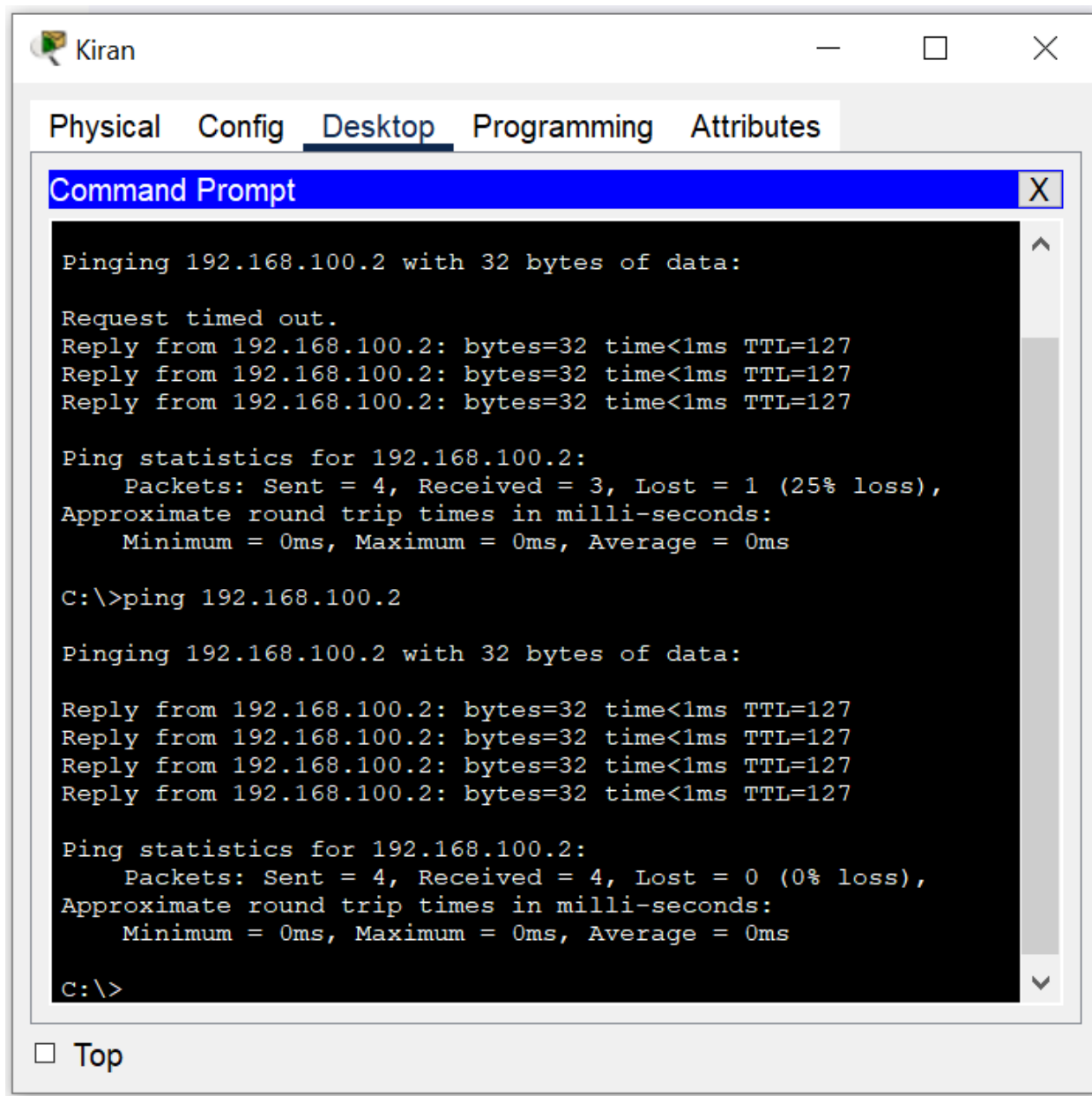
4.

For Bills computer, He was connected to the wrong DNS server. Instead of 192.168.100.2, Bill had his computer connected to 192.168.100.1. With that change, Bills computer can connect to the internet



5.

To set up a new subnet on the network, I added a new interface card to the main router and set up a “Business intelligence” switch between the router and Kiran’s computer. Then, I assigned 192.168.80.1 as the ip address and 192.168.80.10 as Kiran's Ip address and pinged the 192.168.100.2 DNS server. Which was successful!



```
Kiran
Physical Config Desktop Programming Attributes
Command Prompt
Pinging 192.168.100.2 with 32 bytes of data:
Request timed out.
Reply from 192.168.100.2: bytes=32 time<1ms TTL=127
Reply from 192.168.100.2: bytes=32 time<1ms TTL=127
Reply from 192.168.100.2: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.100.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.100.2

Pinging 192.168.100.2 with 32 bytes of data:

Reply from 192.168.100.2: bytes=32 time<1ms TTL=127
Reply from 192.168.100.2: bytes=32 time<1ms TTL=127
Reply from 192.168.100.2: bytes=32 time<1ms TTL=127
Reply from 192.168.100.2: bytes=32 time<1ms TTL=127

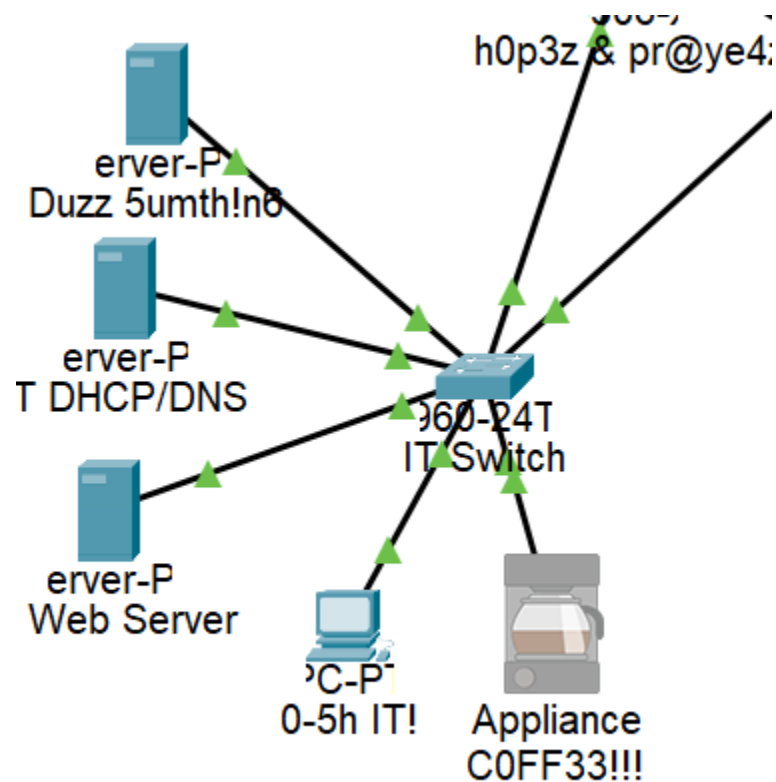
Ping statistics for 192.168.100.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

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6.

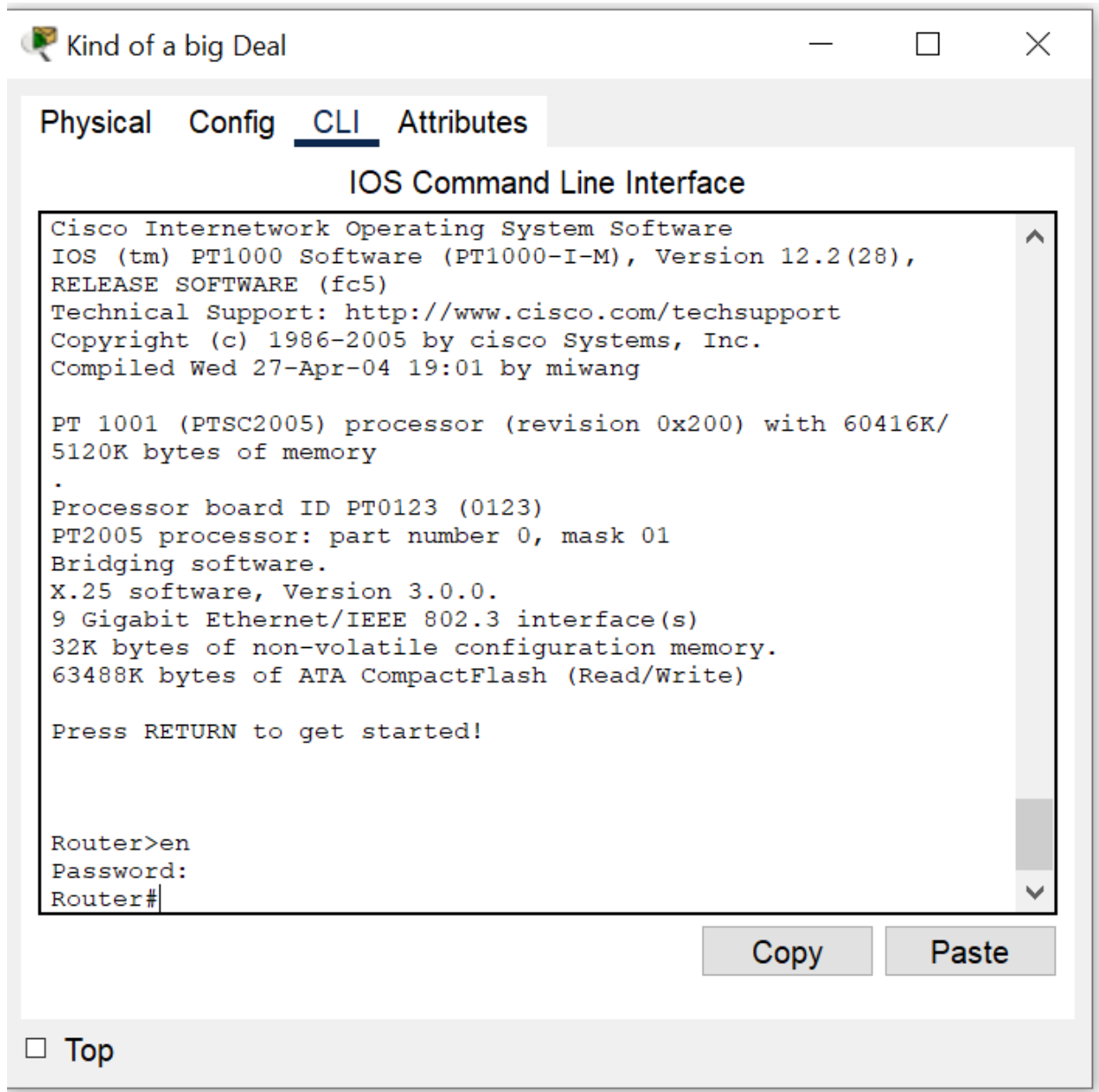
For the coffeemaker, the appliance wasn't powered on. Once the coffeemaker was turned back on, it was running as usual.





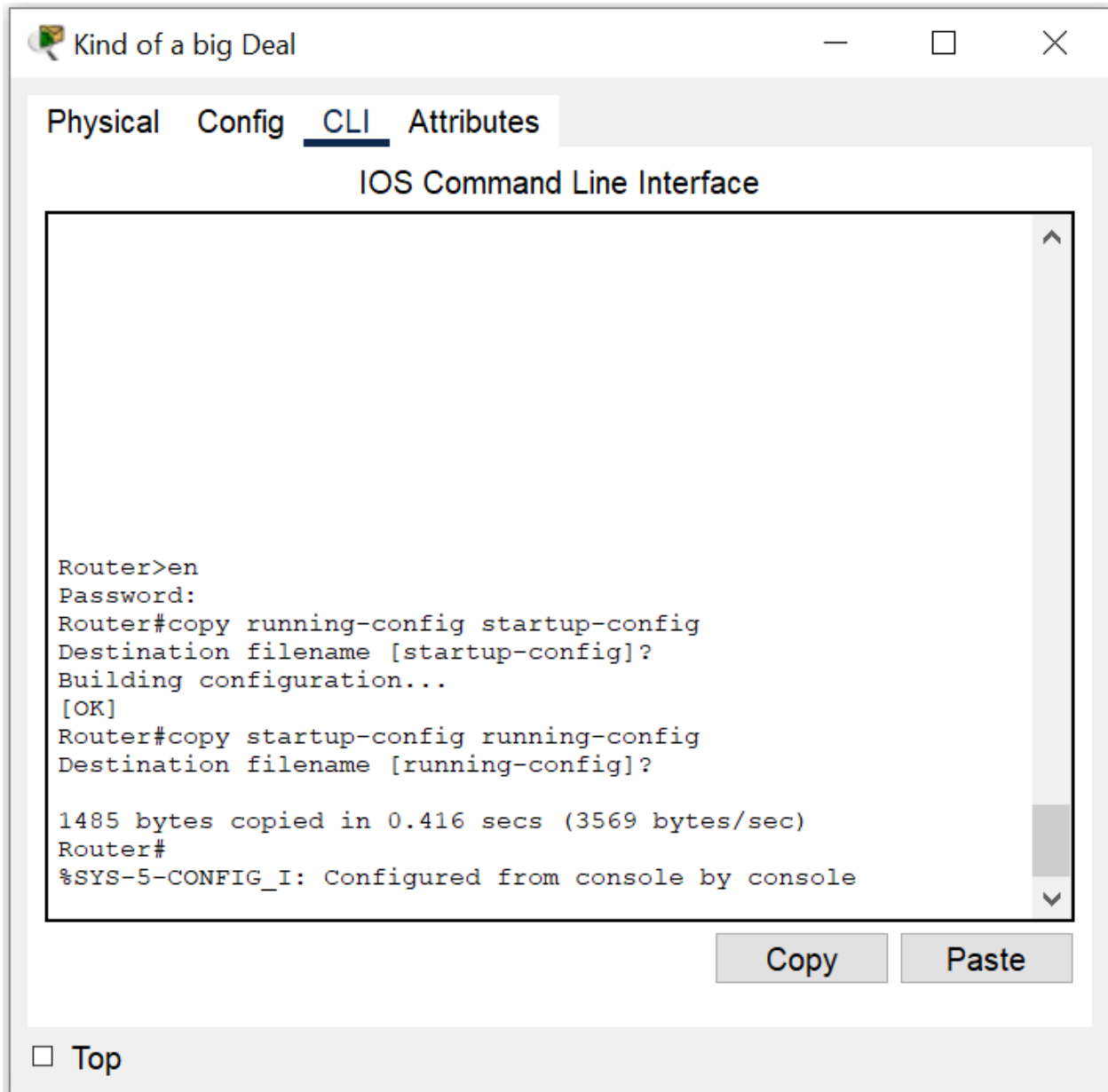
7.

To assign a password to the main router, I used the enable secret command to assign the password “secret” to the router. After reloading the router, the password works as intended!



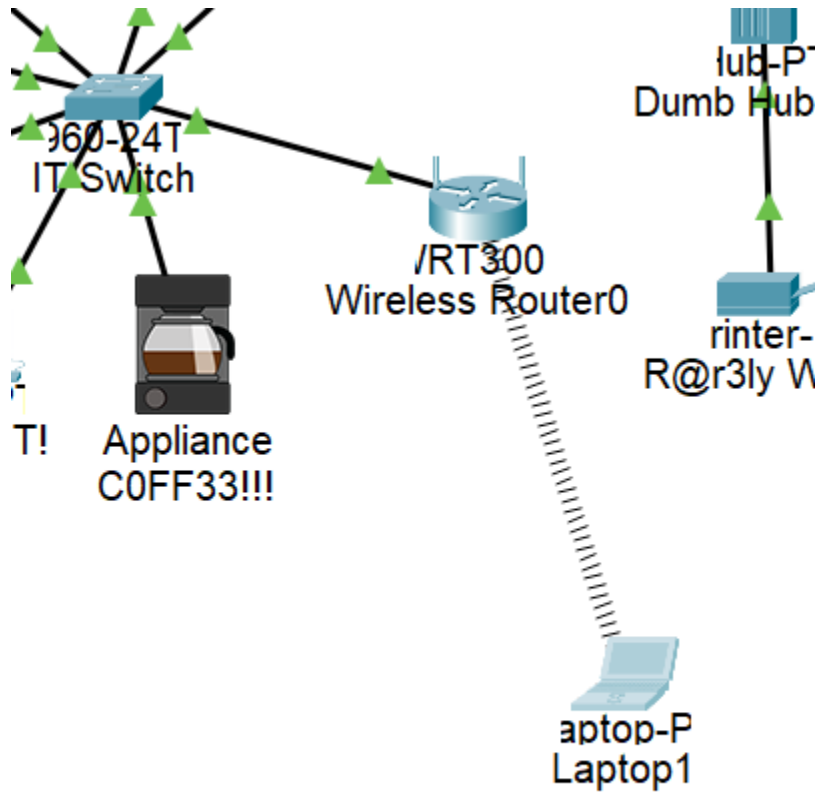
8.

To save the running config to the startup config, using the copy running-config startup-config command will do the trick



9.

To Set up the Wireless Network, I set up a WRT300N and plugged it into the IT switch. After setting up WPA-2 PSK on the Router, I changed the physical component on the laptop to receive wireless connections. After connecting using the shared key, the laptop was able to connected wirelessly.





10.

Little Easter egg

