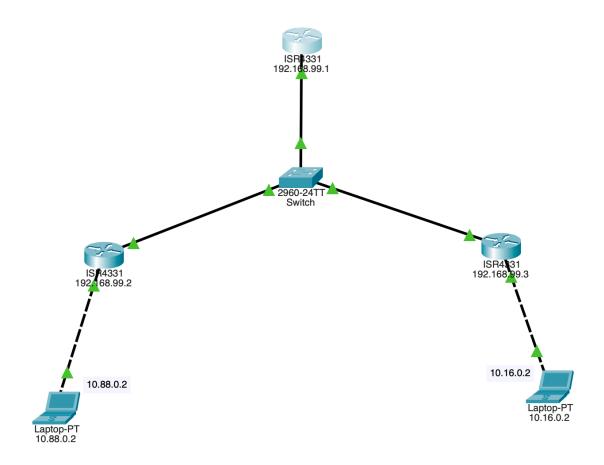
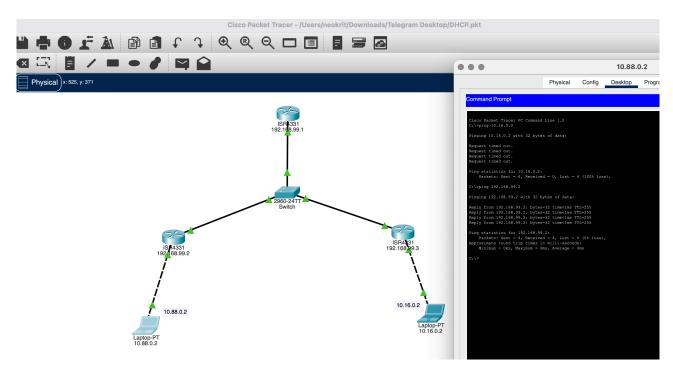
1. Була створена топологія для реалізації DHCP.



- Проведена конфігурація елементів.
 Спроба пінгу кожного елементу.



```
C:\>ping 192.168.99.2
Pinging 192.168.99.2 with 32 bytes of data:

Reply from 192.168.99.2: bytes=32 time<1ms TTL=255
Reply from 192.168.99.2: bytes=32 time<1ms TTL=255
Reply from 192.168.99.2: bytes=32 time<1ms TTL=255
Reply from 192.168.99.2: bytes=32 time=10ms TTL=255
Reply from 192.168.99.2: bytes=32 time=10ms TTL=255
Ping statistics for 192.168.99.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 10ms, Average = 2ms</pre>
```

```
C:\>ping 192.168.99.3

Pinging 192.168.99.3 with 32 bytes of data:

Reply from 192.168.99.3: bytes=32 time=9ms TTL=253
Reply from 192.168.99.3: bytes=32 time<1ms TTL=253
Reply from 192.168.99.3: bytes=32 time<1ms TTL=253
Reply from 192.168.99.3: bytes=32 time=1ms TTL=253
Ping statistics for 192.168.99.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = 9ms, Average = 2ms</pre>
```

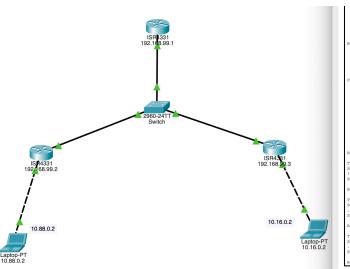
```
Pinging 10.16.0.2 with 32 bytes of data:

Reply from 10.16.0.2: bytes=32 time=1ms TTL=125
Reply from 10.16.0.2: bytes=32 time<1ms TTL=125
Reply from 10.16.0.2: bytes=32 time<1ms TTL=125
Reply from 10.16.0.2: bytes=32 time<1ms TTL=125
Ping statistics for 10.16.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```



Router con0 is now available

Press RETURN to get started.

Router>ping 10.88.0.2

Type secape sequence to abort. Sending 5, 100-byte 1CMF Echos to 10.88.0.2, timeout is 2 seconds: 1:1:1
Success rate is 100 percent (5/5), round-trip min/avg/max - 0/o/1 ms
Routes>ping 192.168.99.2

Type secape sequence to abort. Sending 5, 100-byte ICMP Echos to 192.168.99.2, timeout is 2 seconds: Success rate is 80 percent (4/5), round-trip min/avg/max - 0/1/7 ms Router>ping 10.16.0.2

Type excape sequence to about.
Sending 5, 100-byte ICMP Echos to 10,16.0.2, timeout is 2 seconds:
1111
Success rate is 80 percent (4/3), round-trip min/avg/max = 0/1/4 ms

Висновок

Використання сервера DHCP спрощує процес налаштування IP-адрес, оскільки пристрої можуть отримати адреси автоматично з сервера DHCP.

Загалом, налаштування сервера DHCP на Packet Tracer дозволяє зручно керувати призначенням IP-адрес у мережі, зменшує необхідність вручну налаштовувати адреси для кожного пристрою і спрощує адміністрування мережі.