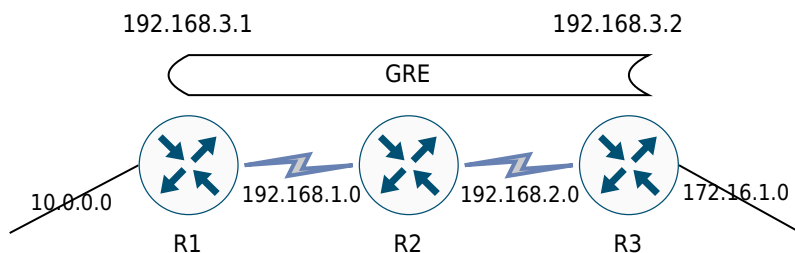


Cisco: GRE tunel



Notatki:

test:

```
PC2#ping 10.0.0.254
```

```
Type escape sequence to abort.
```

```
Sending 5, 100-byte ICMP Echos to 10.0.0.254, timeout is 2 seconds:
```

```
!!!!
```

```
Success rate is 100 percent (5/5), round-trip min/avg/max = 44/56/76 ms
```

```
PC2#traceroute 10.0.0.254
```

```
Type escape sequence to abort.
```

```
Tracing the route to 10.0.0.254
```

```
 0 172.16.1.1 32 msec 32 msec 32 msec
 1 192.168.3.1 28 msec 20 msec 44 msec
 2 10.0.0.254 44 msec 60 msec 64 msec
```

```
PC2#
```

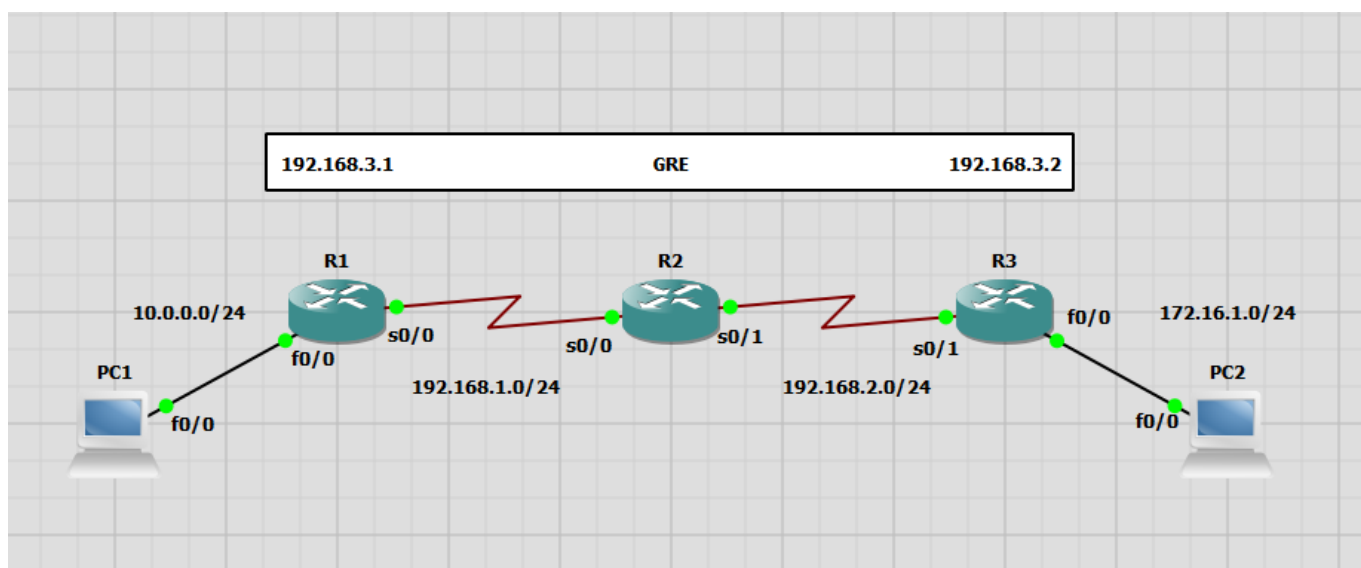
R1:

```
interface Tunnel0
 ip address 192.168.3.1 255.255.255.0
 tunnel source 192.168.1.1
 tunnel destination 192.168.2.2
```

R3:

```
interface Tunnel0
 ip address 192.168.3.2 255.255.255.0
 tunnel source 192.168.2.2
 tunnel destination 192.168.1.1
```

GNS3



Konfiguracja R1:

Building configuration...

Current configuration : 1482 bytes

```
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R1
!
boot-start-marker
boot-end-marker
!
!
no aaa new-model
memory-size iomem 5
no ip icmp rate-limit unreachable
ip cef
!
!
!
!
no ip domain lookup
!
multilink bundle-name authenticated
!
!
!
!
```

```
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
archive  
  log config  
  hidekeys  
!  
!  
!  
!  
ip tcp synwait-time 5  
!  
!  
!  
!  
interface Tunnel0  
  ip address 192.168.3.1 255.255.255.0  
  tunnel source 192.168.1.1  
  tunnel destination 192.168.2.2  
!  
interface FastEthernet0/0  
  ip address 10.0.0.1 255.255.255.0  
  duplex auto  
  speed auto  
!  
interface Serial0/0  
  ip address 192.168.1.1 255.255.255.0  
  clock rate 2000000  
!  
interface FastEthernet0/1  
  no ip address  
  shutdown  
  duplex auto  
  speed auto  
!  
interface Serial0/1  
  no ip address
```

```
shutdown
clock rate 2000000
!
interface Serial0/2
no ip address
shutdown
clock rate 2000000
!
interface FastEthernet1/0
no ip address
shutdown
duplex auto
speed auto
!
interface FastEthernet2/0
no ip address
shutdown
duplex auto
speed auto
!
ip forward-protocol nd
ip route 0.0.0.0 0.0.0.0 192.168.1.2
ip route 172.16.1.0 255.255.255.0 192.168.3.2
!
!
no ip http server
no ip http secure-server
!
no cdp log mismatch duplex
!
!
!
!
!
!
!
control-plane
!
!
!
!
!
!
!
!
!
!
line con 0
exec-timeout 0 0
privilege level 15
logging synchronous
line aux 0
```

```
exec-timeout 0 0
privilege level 15
logging synchronous
line vty 0 4
  login
!
!
end
```

Konfiguracja R2:

```
Destination filename [startup-config]?
Building configuration...
[OK]
R2#
*Mar  1 00:09:02.183: %LINEPROTO-5-UPDOWN: Line protocol on Interface
Serial0/1, changed state to up
R2#show run
Building configuration...

Current configuration : 1285 bytes
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R2
!
boot-start-marker
boot-end-marker
!
!
no aaa new-model
memory-size iomem 5
no ip icmp rate-limit unreachable
ip cef
!
!
!
!
no ip domain lookup
!
multilink bundle-name authenticated
!
!
!
!
!
```

```
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
archive  
  log config  
    hidekeys  
!  
!  
!  
!  
ip tcp synwait-time 5  
!  
!  
!  
!  
interface FastEthernet0/0  
  no ip address  
  shutdown  
  duplex auto  
  speed auto  
!  
interface Serial0/0  
  ip address 192.168.1.2 255.255.255.0  
  clock rate 2000000  
!  
interface FastEthernet0/1  
  no ip address  
  shutdown  
  duplex auto  
  speed auto  
!  
interface Serial0/1  
  ip address 192.168.2.1 255.255.255.0  
  clock rate 2000000  
!  
interface Serial0/2  
  no ip address  
  shutdown  
  clock rate 2000000  
!
```

```
interface FastEthernet1/0
  no ip address
  shutdown
  duplex auto
  speed auto
!
interface FastEthernet2/0
  no ip address
  shutdown
  duplex auto
  speed auto
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
!
no cdp log mismatch duplex
!
!
!
!
!
!
control-plane
!
!
!
!
!
!
!
!
!
!
line con 0
  exec-timeout 0 0
  privilege level 15
  logging synchronous
line aux 0
  exec-timeout 0 0
  privilege level 15
  logging synchronous
line vty 0 4
  login
!
!
end
```

Konfiguracja R3:

Building configuration...

Current configuration : 1482 bytes

```
!  
version 12.4  
service timestamps debug datetime msec  
service timestamps log datetime msec  
no service password-encryption  
!  
hostname R3  
!  
boot-start-marker  
boot-end-marker  
!  
!  
no aaa new-model  
memory-size iomem 5  
no ip icmp rate-limit unreachable  
ip cef  
!  
!  
!  
!  
no ip domain lookup  
!  
multilink bundle-name authenticated  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
archive  
  log config  
  hidekeys  
!
```

```
!  
!  
!  
ip tcp synwait-time 5  
!  
!  
!  
!  
interface Tunnel0  
  ip address 192.168.3.2 255.255.255.0  
  tunnel source 192.168.2.2  
  tunnel destination 192.168.1.1  
!  
interface FastEthernet0/0  
  ip address 172.16.1.1 255.255.255.0  
  duplex auto  
  speed auto  
!  
interface Serial0/0  
  no ip address  
  shutdown  
  clock rate 2000000  
!  
interface FastEthernet0/1  
  no ip address  
  shutdown  
  duplex auto  
  speed auto  
!  
interface Serial0/1  
  ip address 192.168.2.2 255.255.255.0  
  clock rate 2000000  
!  
interface Serial0/2  
  no ip address  
  shutdown  
  clock rate 2000000  
!  
interface FastEthernet1/0  
  no ip address  
  shutdown  
  duplex auto  
  speed auto  
!  
interface FastEthernet2/0  
  no ip address  
  shutdown  
  duplex auto  
  speed auto  
!  
ip forward-protocol nd
```

```
ip route 0.0.0.0 0.0.0.0 192.168.2.1
ip route 10.0.0.0 255.255.255.0 192.168.3.1
!
!
no ip http server
no ip http secure-server
!
no cdp log mismatch duplex
!
!
!
!
!
!
control-plane
!
!
!
!
!
!
!
!
!
line con 0
  exec-timeout 0 0
  privilege level 15
  logging synchronous
line aux 0
  exec-timeout 0 0
  privilege level 15
  logging synchronous
line vty 0 4
  login
!
!
end
```