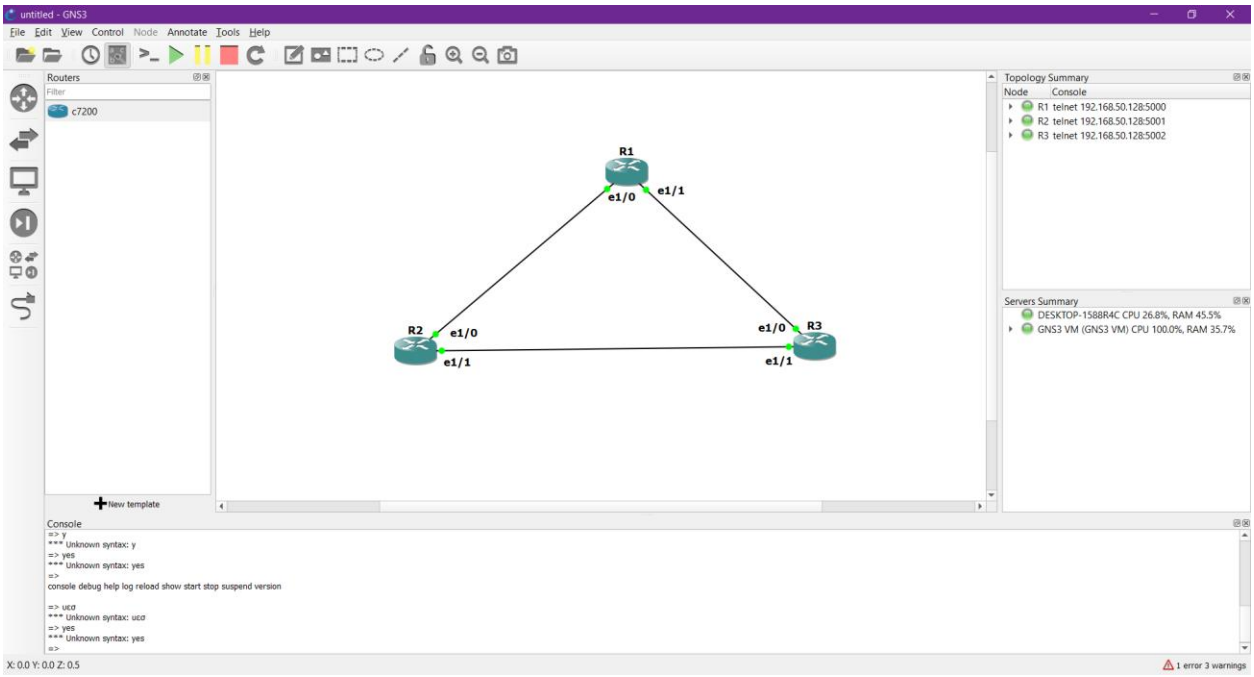
ΑΝΑΦΟΡΑ ΓΙΑ ΤΟ 2ο ΕΡΓΑΣΤΗΡΙΟ ΣΤΑ ΔΙΚΤΥΑ ΥΠΟΛΟΓΙΣΤΩΝ

ΑΜ = 1070263

Ον/μο = ΣΠΥΡΟ ΣΟΥΛΙ

Έτος = 6ο

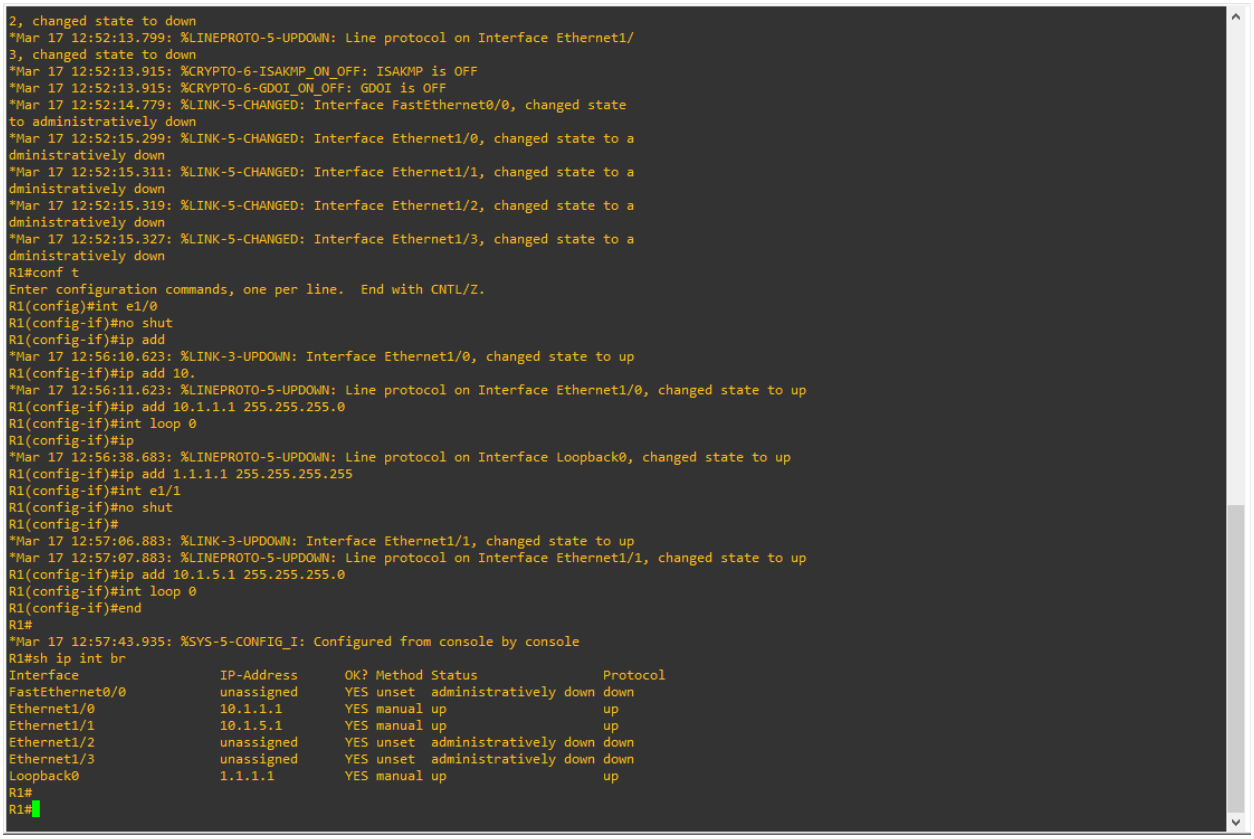
Υλοποίηση



Ερώτημα 1ο

Εισαγωγή ip και sh ip int br

R1



Sh int e1/0 , e1/1

```
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 00:00:02, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     0 packets input, 0 bytes, 0 no buffer
     Received 0 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     23 packets output, 2869 bytes, 0 underruns
     0 output errors, 0 collisions, 1 interface resets

R1#sh int e1/1
Ethernet1/1 is up, line protocol is up
  Hardware is AmdP2, address is ca01.2124.001d (bia ca01.2124.001d)
  Internet address is 10.1.5.1/24
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 00:00:01, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     0 packets input, 0 bytes, 0 no buffer
     Received 0 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     19 packets output, 2730 bytes, 0 underruns
     0 output errors, 0 collisions, 1 interface resets
     0 unknown protocol drops
     0 babbles, 0 late collision, 0 deferred
     0 lost carrier, 0 no carrier
     0 output buffer failures, 0 output buffers swapped out
R1#
```

R2

```
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Tue 19-Nov-13 04:39 by prod_rel_team
*Mar 17 12:52:13.579: %SNMP-5-COLDSTART: SNMP agent on host R2 is undergoing a c
old start
*Mar 17 12:52:13.763: %CRYPTO-6-ISAKMP_ON_OFF: ISAKMP is OFF
*Mar 17 12:52:13.767: %CRYPTO-6-GDOI_ON_OFF: GDOI is OFF
*Mar 17 12:52:14.667: %LINK-5-CHANGED: Interface FastEthernet0/0, changed state
to administratively down
*Mar 17 12:52:15.115: %LINK-5-CHANGED: Interface Ethernet1/0, changed state to a
dministratively down
*Mar 17 12:52:15.123: %LINK-5-CHANGED: Interface Ethernet1/1, changed state to a
dministratively down
*Mar 17 12:52:15.135: %LINK-5-CHANGED: Interface Ethernet1/2, changed state to a
dministratively down
*Mar 17 12:52:15.143: %LINK-5-CHANGED: Interface Ethernet1/3, changed state to a
dministratively down
R2#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R2(config)#int e1/0
R2(config-if)#no shut
R2(config-if)#ip add 10
*Mar 17 13:00:06.323: %LINK-3-UPDOWN: Interface Ethernet1/0, changed state to up
*Mar 17 13:00:07.323: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0, changed state to up
R2(config-if)#ip add 10.1.1.2 255.255.255.0
R2(config-if)#int loop 0
R2(config-if)#ip a
*Mar 17 13:00:22.339: %LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up
R2(config-if)#ip add 2.2.2.2 255.255.255.255
R2(config-if)#int e1/1
R2(config-if)#no shut
R2(config-if)#ip add
*Mar 17 13:00:51.415: %LINK-3-UPDOWN: Interface Ethernet1/1, changed state to up
*Mar 17 13:00:52.415: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/1, changed state to up
R2(config-if)#ip add 10.1.5.2 255.255.255.0
R2(config-if)#int loop 0
R2(config-if)#end
R2#sh
*Mar 17 13:01:16.863: %SYS-5-CONFIG_I: Configured from console by console
R2#sh ip int br
Interface              IP-Address      OK? Method Status                Protocol
FastEthernet0/0        unassigned      YES unset  administratively down down
Ethernet1/0            10.1.1.2        YES manual up                    up
Ethernet1/1            10.1.5.2        YES manual up                    up
Ethernet1/2            unassigned      YES unset  administratively down down
Ethernet1/3            unassigned      YES unset  administratively down down
Loopback0              2.2.2.2         YES manual up                    up
R2#
```

Sh int e1/0 , e1/1

```
R2#sh int e1/0
Ethernet1/0 is up, line protocol is up
  Hardware is AmdP2, address is ca02.2144.001c (bia ca02.2144.001c)
  Internet address is 10.1.1.2/24
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:29, output 00:00:05, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     2 packets input, 756 bytes, 0 no buffer
     Received 2 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     18 packets output, 2256 bytes, 0 underruns
     0 output errors, 0 collisions, 1 interface resets

R2#sh int e1/1
Ethernet1/1 is up, line protocol is up
  Hardware is AmdP2, address is ca02.2144.001d (bia ca02.2144.001d)
  Internet address is 10.1.5.2/24
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 00:00:04, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     0 packets input, 0 bytes, 0 no buffer
     Received 0 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     14 packets output, 2112 bytes, 0 underruns
     0 output errors, 0 collisions, 1 interface resets
 --More--
```

R3

```
Compiled Tue 19-Nov-13 04:39 by prod_rel_team
*Mar 17 12:52:13.555: %SNMP-5-COLDSTART: SNMP agent on host R3 is undergoing a c
old start
*Mar 17 12:52:13.767: %CRYPTO-6-ISAKMP_ON_OFF: ISAKMP is OFF
*Mar 17 12:52:13.771: %CRYPTO-6-GDOI_ON_OFF: GDOI is OFF
*Mar 17 12:52:14.599: %LINK-5-CHANGED: Interface FastEthernet0/0, changed state
to administratively down
*Mar 17 12:52:15.079: %LINK-5-CHANGED: Interface Ethernet1/0, changed state to a
dministratively down
*Mar 17 12:52:15.087: %LINK-5-CHANGED: Interface Ethernet1/1, changed state to a
dministratively down
*Mar 17 12:52:15.099: %LINK-5-CHANGED: Interface Ethernet1/2, changed state to a
dministratively down
*Mar 17 12:52:15.107: %LINK-5-CHANGED: Interface Ethernet1/3, changed state to a
dministratively down
R3#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R3(config)#int e1/0
R3(config-if)#no shut
R3(config-if)#ip add 10.1
*Mar 17 13:02:48.051: %LINK-3-UPDOWN: Interface Ethernet1/0, changed state to up
*Mar 17 13:02:49.051: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0, changed state to up
R3(config-if)#ip add 10.1.1.3 255.255.255.0
R3(config-if)#int loop
% Incomplete command.

R3(config)#int loop 0
R3(config-if)#
*Mar 17 13:03:08.667: %LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up
R3(config-if)#ip add 3.3.3.3 255.255.255.255
R3(config-if)#int e1/1
R3(config-if)#no shut
R3(config-if)#ip add
*Mar 17 13:03:32.563: %LINK-3-UPDOWN: Interface Ethernet1/1, changed state to up
*Mar 17 13:03:33.563: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/1, changed state to up
R3(config-if)#ip add 10.1.5.3 255.255.255.0
R3(config-if)#end
R3#
*Mar 17 13:03:47.123: %SYS-5-CONFIG_I: Configured from console by console
R3#sh ip int br
Interface                  IP-Address      OK? Method Status                Protocol
FastEthernet0/0            unassigned      YES unset  administratively down down
Ethernet1/0                10.1.1.3        YES manual up                    up
Ethernet1/1                10.1.5.3        YES manual up                    up
Ethernet1/2                unassigned      YES unset  administratively down down
Ethernet1/3                unassigned      YES unset  administratively down down
Loopback0                  3.3.3.3         YES manual up                    up
R3#
```

Sh int e1/0 , e1/1

```
R3(config-if)#ip add 3.3.3.3 255.255.255.255
R3(config-if)#int e1/1
R3(config-if)#no shut
R3(config-if)#ip add
*Mar 17 13:03:32.563: %LINK-3-UPDOWN: Interface Ethernet1/1, changed state to up
*Mar 17 13:03:33.563: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/1, changed state to up
R3(config-if)#ip add 10.1.5.3 255.255.255.0
R3(config-if)#end
R3#
*Mar 17 13:03:47.123: %SYS-5-CONFIG_I: Configured from console by console
R3#sh ip int br
Interface                  IP-Address      OK? Method Status                Protocol
FastEthernet0/0            unassigned      YES unset  administratively down down
Ethernet1/0                10.1.1.3        YES manual up                    up
Ethernet1/1                10.1.5.3        YES manual up                    up
Ethernet1/2                unassigned      YES unset  administratively down down
Ethernet1/3                unassigned      YES unset  administratively down down
Loopback0                  3.3.3.3         YES manual up                    up
R3#sh int e1/0
Ethernet1/0 is up, line protocol is up
  Hardware is AmdP2, address is ca03.2164.001c (bia ca03.2164.001c)
  Internet address is 10.1.1.3/24
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:13, output 00:00:04, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     3 packets input, 833 bytes, 0 no buffer
     Received 3 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     19 packets output, 2333 bytes, 0 underruns
     0 output errors, 0 collisions, 1 interface resets
     0 unknown protocol drops
     0 babbles, 0 late collision, 0 deferred
     0 lost carrier, 0 no carrier
     0 output buffer failures, 0 output buffers swapped out
R3#sh int e1/1
Ethernet1/1 is up, line protocol is up
  Hardware is AmdP2, address is ca03.2164.001d (bia ca03.2164.001d)
```

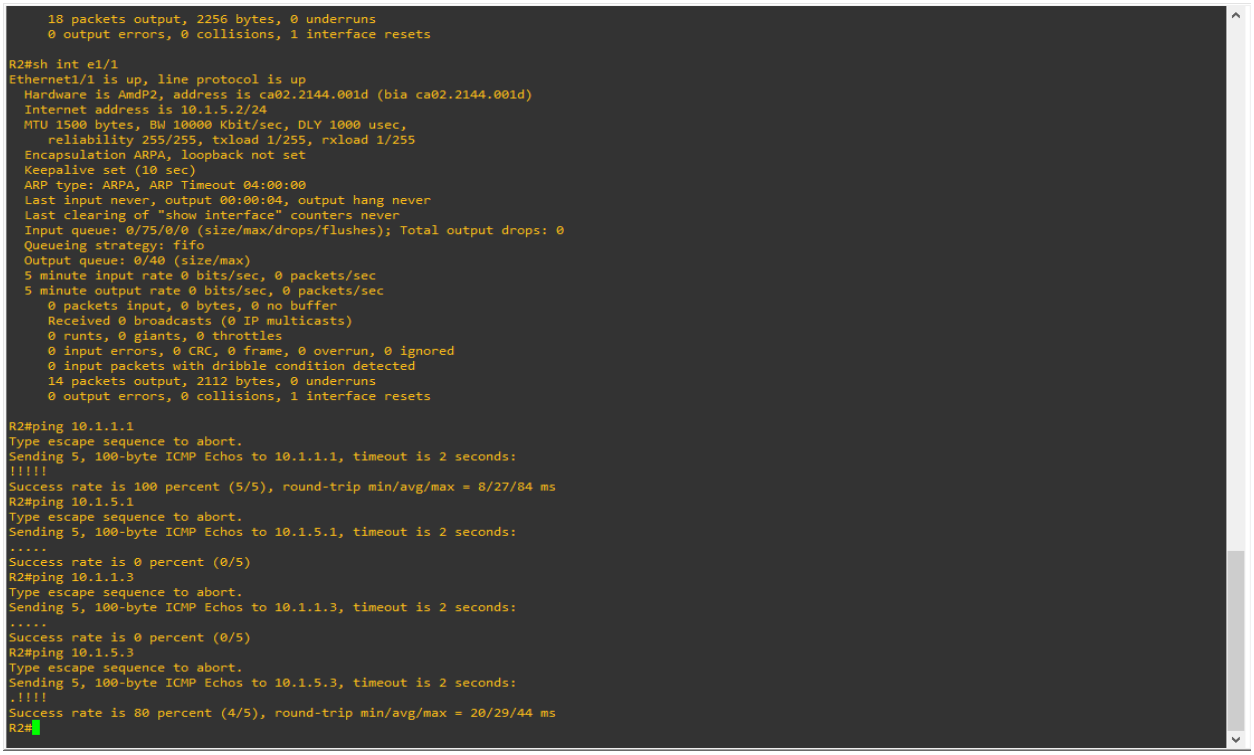
```
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:13, output 00:00:04, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     3 packets input, 833 bytes, 0 no buffer
     Received 3 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     19 packets output, 2333 bytes, 0 underruns
     0 output errors, 0 collisions, 1 interface resets
     0 unknown protocol drops
     0 babbles, 0 late collision, 0 deferred
     0 lost carrier, 0 no carrier
     0 output buffer failures, 0 output buffers swapped out
R3#sh int e1/1
Ethernet1/1 is up, line protocol is up
  Hardware is AmdP2, address is ca03.2164.001d (bia ca03.2164.001d)
  Internet address is 10.1.5.3/24
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:14, output 00:00:01, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     3 packets input, 833 bytes, 0 no buffer
     Received 3 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     14 packets output, 2112 bytes, 0 underruns
     0 output errors, 0 collisions, 1 interface resets
     0 unknown protocol drops
     0 babbles, 0 late collision, 0 deferred

R3#
```

Ερώτημα 2ο

R1

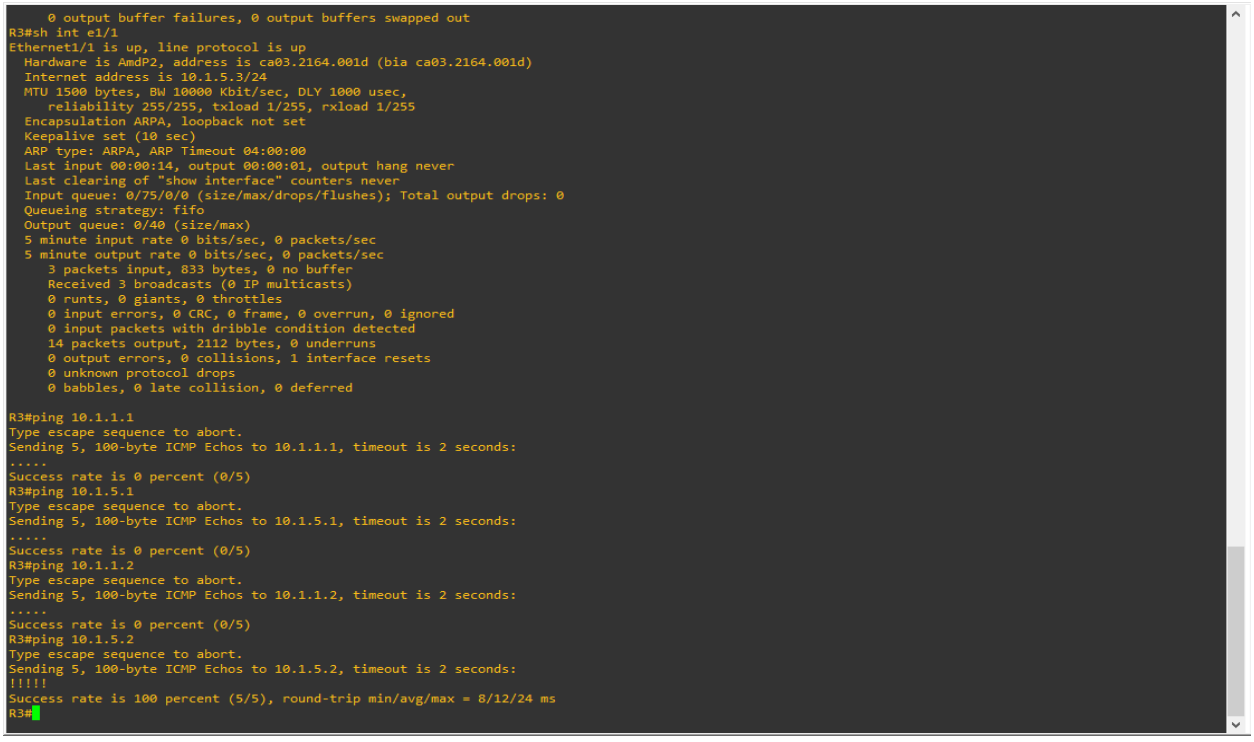
```
R1#sh int e1/1
Ethernet1/1 is up, line protocol is up
  Hardware is AmdP2, address is ca01.2124.001d (bia ca01.2124.001d)
  Internet address is 10.1.5.1/24
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 00:00:01, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     0 packets input, 0 bytes, 0 no buffer
     Received 0 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     19 packets output, 2730 bytes, 0 underruns
     0 output errors, 0 collisions, 1 interface resets
     0 unknown protocol drops
     0 babbles, 0 late collision, 0 deferred
     0 lost carrier, 0 no carrier
     0 output buffer failures, 0 output buffers swapped out
R1#ping 10.1.1.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.2, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 20/21/24 ms
R1#ping 10.1.5.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.2, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#ping 10.1.1.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#ping 10.1.5.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#
```

R2



```
    18 packets output, 2256 bytes, 0 underruns
    0 output errors, 0 collisions, 1 interface resets

R2#sh int e1/1
Ethernet1/1 is up, line protocol is up
  Hardware is AmdP2, address is ca02.2144.001d (bia ca02.2144.001d)
  Internet address is 10.1.5.2/24
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 00:00:04, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     0 packets input, 0 bytes, 0 no buffer
     Received 0 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     14 packets output, 2112 bytes, 0 underruns
     0 output errors, 0 collisions, 1 interface resets

R2#ping 10.1.1.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 8/27/84 ms
R2#ping 10.1.5.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R2#ping 10.1.1.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R2#ping 10.1.5.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.3, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 20/29/44 ms
R2#
```

R3



```
    0 output buffer failures, 0 output buffers swapped out
R3#sh int e1/1
Ethernet1/1 is up, line protocol is up
  Hardware is AmdP2, address is ca03.2164.001d (bia ca03.2164.001d)
  Internet address is 10.1.5.3/24
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:14, output 00:00:01, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     3 packets input, 833 bytes, 0 no buffer
     Received 3 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     14 packets output, 2112 bytes, 0 underruns
     0 output errors, 0 collisions, 1 interface resets
     0 unknown protocol drops
     0 babbles, 0 late collision, 0 deferred

R3#ping 10.1.1.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R3#ping 10.1.5.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R3#ping 10.1.1.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.2, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R3#ping 10.1.5.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 8/12/24 ms
R3#
```

Ερώτημα 3ο

R1

```
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     0 packets input, 0 bytes, 0 no buffer
     Received 0 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     19 packets output, 2730 bytes, 0 underruns
     0 output errors, 0 collisions, 1 interface resets
     0 unknown protocol drops
     0 babbles, 0 late collision, 0 deferred
     0 lost carrier, 0 no carrier
     0 output buffer failures, 0 output buffers swapped out
R1#ping 10.1.1.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.2, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 20/21/24 ms
R1#ping 10.1.5.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.2, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#ping 10.1.1.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#ping 10.1.5.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#router ospf 1
R1(config-router)#router-id 1.1.1.1
R1(config-router)#0.0.0.0 255.255.255.255 area 0
                  ^
% Invalid input detected at '^' marker.

R1(config-router)#network 0.0.0.0 255.255.255.255 area 0
R1(config-router)#end
R1#
*Mar 17 13:13:44.211: %SYS-5-CONFIG_I: Configured from console by console
R1#
```

R2

```
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 00:00:04, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     0 packets input, 0 bytes, 0 no buffer
     Received 0 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     14 packets output, 2112 bytes, 0 underruns
     0 output errors, 0 collisions, 1 interface resets

R2#ping 10.1.1.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 8/27/84 ms
R2#ping 10.1.5.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R2#ping 10.1.1.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R2#ping 10.1.5.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.3, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 20/29/44 ms
R2#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R2(config)#router ospf 1
R2(config-router)#router-id 2.2.2.2
R2(config-router)#network 0.0.0.0 255.255.255.255 area 0
R2(config-router)#
*Mar 17 13:15:29.315: %OSPF-5-ADJCHG: Process 1, Nbr 1.1.1.1 on Ethernet1/0 from LOADING to FULL, Loading Done
R2(config-router)#end
R2#
*Mar 17 13:15:40.831: %SYS-5-CONFIG_I: Configured from console by console
R2#
```

R3

```
  Last input 00:00:14, output 00:00:01, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     3 packets input, 833 bytes, 0 no buffer
     Received 3 broadcasts (0 IP multicasts)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     14 packets output, 2112 bytes, 0 underruns
     0 output errors, 0 collisions, 1 interface resets
     0 unknown protocol drops
     0 babbles, 0 late collision, 0 deferred

R3#ping 10.1.1.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R3#ping 10.1.5.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R3#ping 10.1.1.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.2, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R3#ping 10.1.5.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 8/12/24 ms
R3#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R3(config)#router ospf 1
R3(config-router)#router-id 3.3.3.3
R3(config-router)#network 0.0.0.0 255.255.255.255 area 0
R3(config-router)#
*Mar 17 13:16:38.307: %OSPF-5-ADJCHG: Process 1, Nbr 2.2.2.2 on Ethernet1/1 from LOADING to FULL, Loading Done
R3(config-router)#end
R3#
*Mar 17 13:16:41.607: %SYS-5-CONFIG_I: Configured from console by console
R3#
```

Ερώτημα 4ο

R1

```
Sending 5, 100-byte ICMP Echos to 10.1.5.2, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#ping 10.1.1.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#ping 10.1.5.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#router ospf 1
R1(config-router)#router-id 1.1.1.1
R1(config-router)#0.0.0.0 255.255.255.255 area 0
                  ^
% Invalid input detected at '^' marker.

R1(config-router)#network 0.0.0.0 255.255.255.255 area 0
R1(config-router)#end
R1#
*Mar 17 13:13:44.211: %SYS-5-CONFIG_I: Configured from console by console
R1#
*Mar 17 13:15:29.239: %OSPF-5-ADJCHG: Process 1, Nbr 2.2.2.2 on Ethernet1/0 from LOADING to FULL, Loading Done
R1#ping 10.1.1.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 20/33/56 ms
R1#ping 10.1.5.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.2, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#ping 10.1.1.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#ping 10.1.5.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#
```

R2

```
R2#ping 10.1.5.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R2#ping 10.1.1.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R2#ping 10.1.5.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.3, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 20/29/44 ms
R2#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R2(config)#router ospf 1
R2(config-router)#router-id 2.2.2.2
R2(config-router)#network 0.0.0.0 255.255.255.255 area 0
R2(config-router)#
*Mar 17 13:15:29.315: %OSPF-5-ADJCHG: Process 1, Nbr 1.1.1.1 on Ethernet1/0 from LOADING to FULL, Loading Done
R2(config-router)#end
R2#
*Mar 17 13:15:40.831: %SYS-5-CONFIG_I: Configured from console by console
R2#
*Mar 17 13:16:38.359: %OSPF-5-ADJCHG: Process 1, Nbr 3.3.3.3 on Ethernet1/1 from LOADING to FULL, Loading Done
R2#ping 10.1.1.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 16/20/24 ms
R2#ping 10.1.5.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R2#ping 10.1.1.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R2#ping 10.1.5.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.3, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 8/13/24 ms
R2#
```

R3

```
.....
Success rate is 0 percent (0/5)
R3#ping 10.1.5.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R3#ping 10.1.1.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.2, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R3#ping 10.1.5.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 8/12/24 ms
R3#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R3(config)#router ospf 1
R3(config-router)#router-id 3.3.3.3
R3(config-router)#network 0.0.0.0 255.255.255.255 area 0
R3(config-router)#
*Mar 17 13:16:38.307: %OSPF-5-ADJCHG: Process 1, Nbr 2.2.2.2 on Ethernet1/1 from LOADING to FULL, Loading Done
R3(config-router)#end
R3#
*Mar 17 13:16:41.607: %SYS-5-CONFIG_I: Configured from console by console
R3#ping 10.1.1.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R3#ping 10.1.5.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R3#ping 10.1.1.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.2, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R3#ping 10.1.5.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 16/19/24 ms
R3#
```

Ερώτημα 5ο

R1

```
Sending 5, 100-byte ICMP Echos to 10.1.1.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 20/33/56 ms
R1#ping 10.1.5.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.2, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#ping 10.1.1.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#ping 10.1.5.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#sh ip ospf neigh

Neighbor ID     Pri   State           Dead Time   Address         Interface
2.2.2.2           1   FULL/BDR        00:00:35    10.1.1.2        Ethernet1/0
R1#sh ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route, H - NHRP, l - LISP
       a - application route
       + - replicated route, % - next hop override

Gateway of last resort is not set

      1.0.0.0/32 is subnetted, 1 subnets
C        1.1.1.1 is directly connected, Loopback0
      2.0.0.0/32 is subnetted, 1 subnets
O        2.2.2.2 [110/11] via 10.1.1.2, 00:10:03, Ethernet1/0
      3.0.0.0/32 is subnetted, 1 subnets
O        3.3.3.3 [110/21] via 10.1.1.2, 00:08:54, Ethernet1/0
      10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
C        10.1.1.0/24 is directly connected, Ethernet1/0
L        10.1.1.1/32 is directly connected, Ethernet1/0
C        10.1.5.0/24 is directly connected, Ethernet1/1
L        10.1.5.1/32 is directly connected, Ethernet1/1
R1#
R1#
```

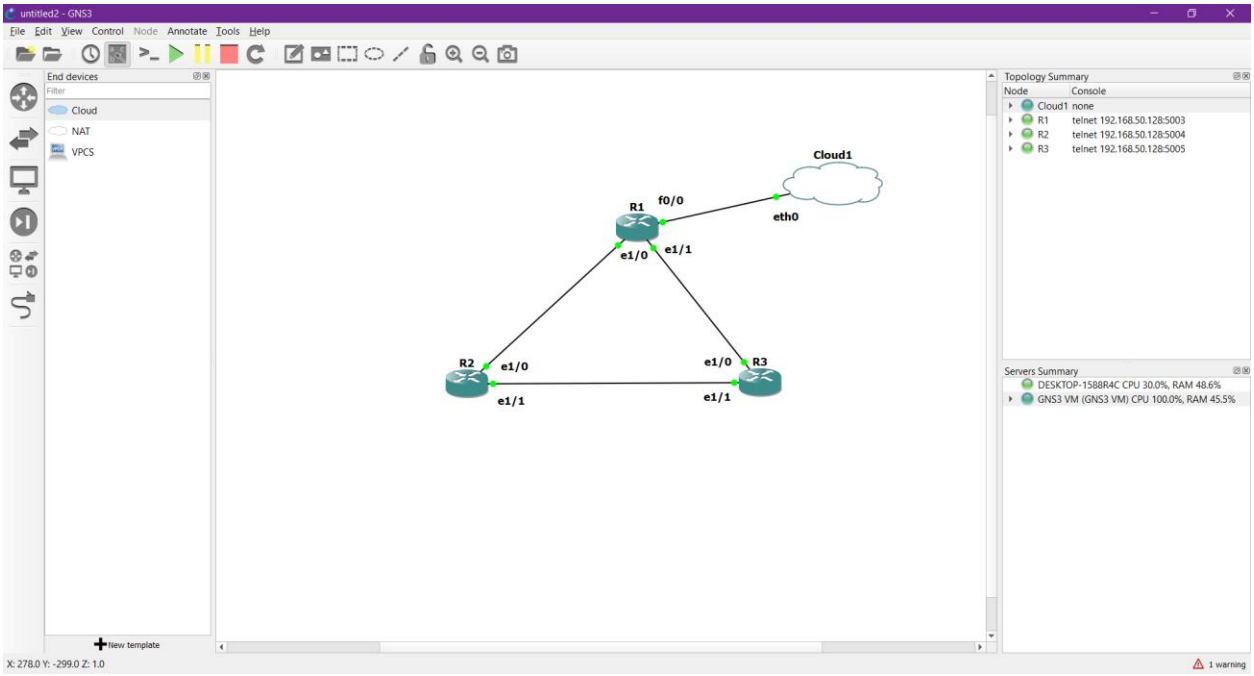
R2

```
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 16/20/24 ms
R2#ping 10.1.5.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R2#ping 10.1.1.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R2#ping 10.1.5.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.3, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 8/13/24 ms
R2#sh ip ospf neigh

Neighbor ID     Pri   State           Dead Time   Address         Interface
3.3.3.3           1   FULL/BDR        00:00:39    10.1.5.3        Ethernet1/1
1.1.1.1           1   FULL/DR         00:00:36    10.1.1.1        Ethernet1/0
R2#sh ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route, H - NHRP, l - LISP
       a - application route
       + - replicated route, % - next hop override

Gateway of last resort is not set

      1.0.0.0/32 is subnetted, 1 subnets
O        1.1.1.1 [110/11] via 10.1.1.1, 00:11:18, Ethernet1/0
      2.0.0.0/32 is subnetted, 1 subnets
C        2.2.2.2 is directly connected, Loopback0
      3.0.0.0/32 is subnetted, 1 subnets
O        3.3.3.3 [110/11] via 10.1.5.3, 00:10:09, Ethernet1/1
      10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
C        10.1.1.0/24 is directly connected, Ethernet1/0
L        10.1.1.2/32 is directly connected, Ethernet1/0
C        10.1.5.0/24 is directly connected, Ethernet1/1
L        10.1.5.2/32 is directly connected, Ethernet1/1
R2#
R2#
```

R3

```
Sending 5, 100-byte ICMP Echos to 10.1.1.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R3#ping 10.1.5.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.1, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R3#ping 10.1.1.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.2, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R3#ping 10.1.5.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.5.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 16/19/24 ms
R3#sh ip ospf neigh

Neighbor ID     Pri   State           Dead Time   Address         Interface
2.2.2.2           1   FULL/DR         00:00:38    10.1.5.2        Ethernet1/1
R3#sh ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route, H - NHRP, l - LISP
       a - application route
       + - replicated route, % - next hop override

Gateway of last resort is not set

      1.0.0.0/32 is subnetted, 1 subnets
O        1.1.1.1 [110/21] via 10.1.5.2, 00:10:51, Ethernet1/1
      2.0.0.0/32 is subnetted, 1 subnets
O        2.2.2.2 [110/11] via 10.1.5.2, 00:10:51, Ethernet1/1
      3.0.0.0/32 is subnetted, 1 subnets
C        3.3.3.3 is directly connected, Loopback0
      10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
C        10.1.1.0/24 is directly connected, Ethernet1/0
L        10.1.1.3/32 is directly connected, Ethernet1/0
C        10.1.5.0/24 is directly connected, Ethernet1/1
L        10.1.5.3/32 is directly connected, Ethernet1/1
R3#
R3#
```

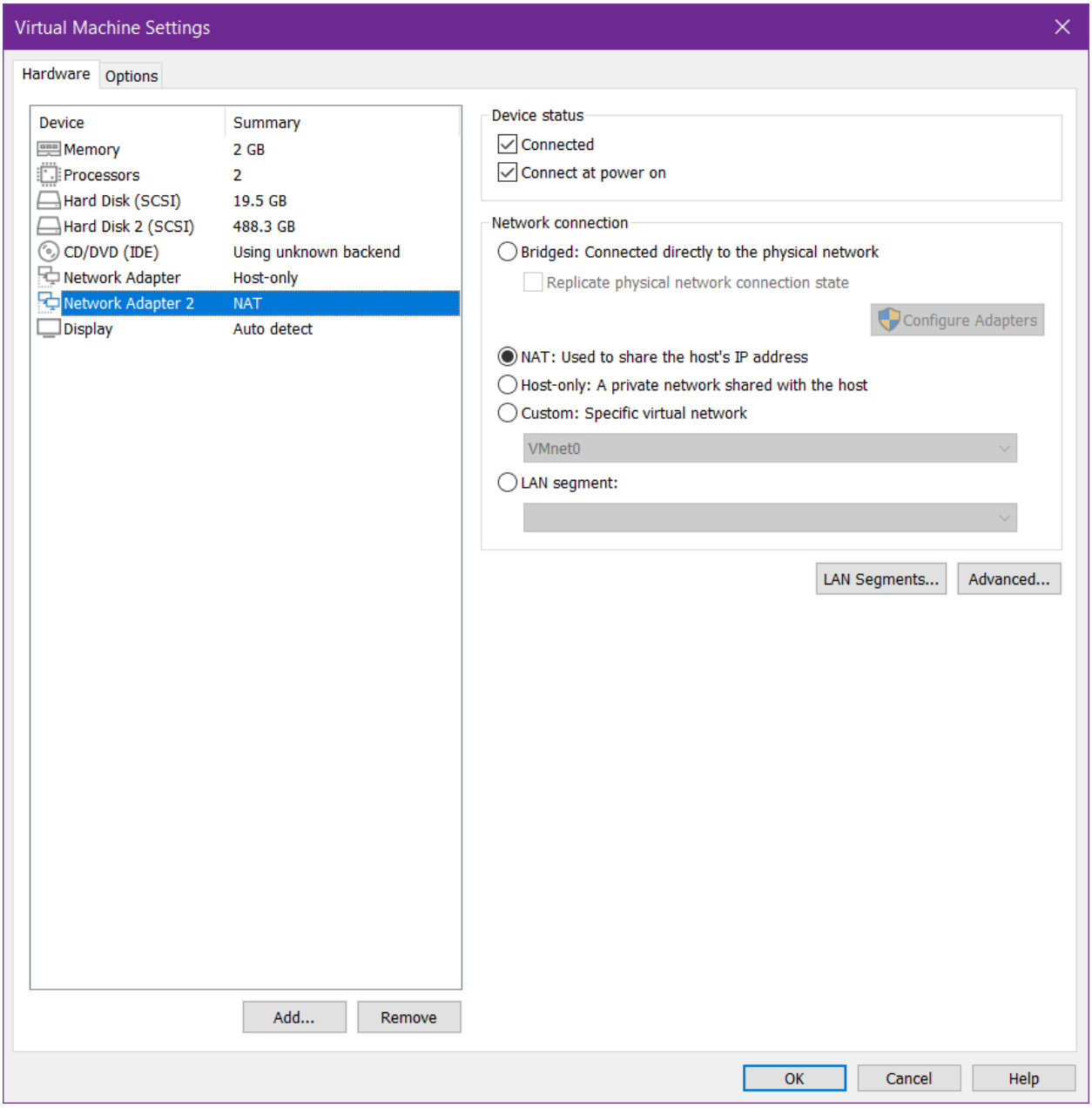
Μερος 2ο



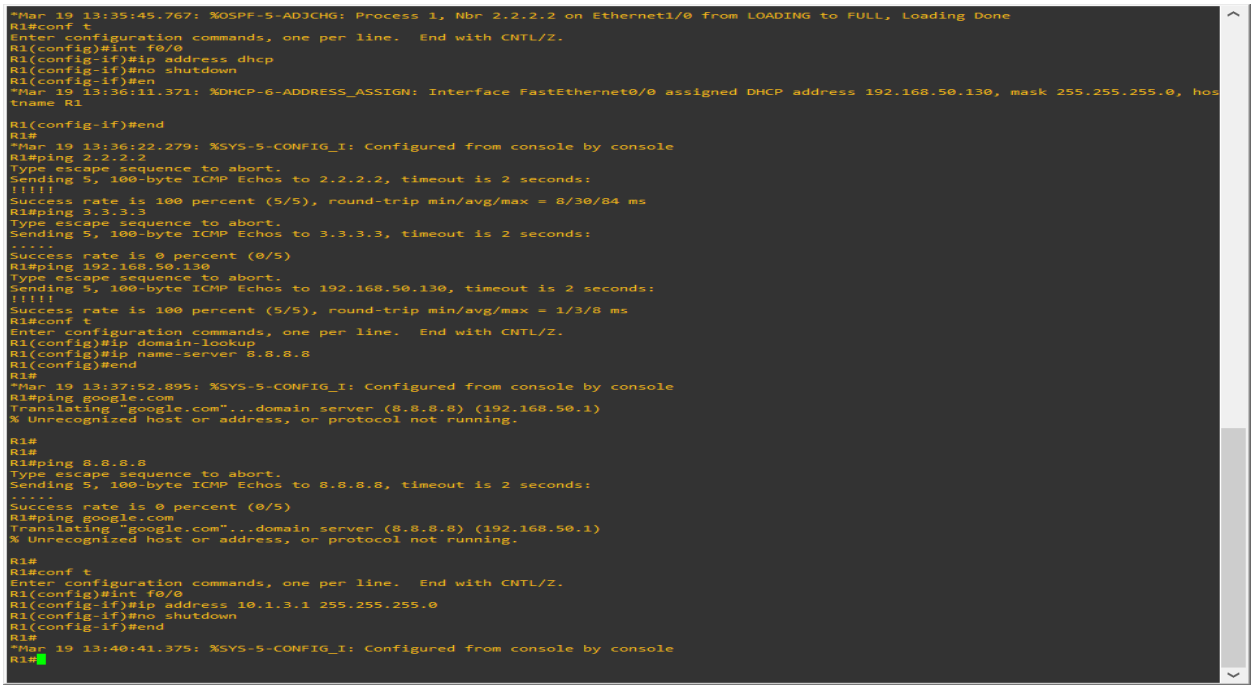
R1

```
% Crashinfo may not be recovered at bootflash:crashinfo
% This file system device reports an error


Press RETURN to get started!


*Mar 17 15:50:34.395: %LINEPROTO-5-UPDOWN: Line protocol on Interface VoIP-Null0, changed state to up
*Mar 17 15:50:34.403: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Mar 17 15:50:34.411: %LINK-3-UPDOWN: Interface Ethernet1/0, changed state to up
*Mar 17 15:50:34.419: %LINK-3-UPDOWN: Interface Ethernet1/1, changed state to up
*Mar 17 15:50:34.427: %LINK-3-UPDOWN: Interface Ethernet1/2, changed state to up
*Mar 17 15:50:34.431: %LINK-3-UPDOWN: Interface Ethernet1/3, changed state to up
*Mar 17 15:50:36.175: %SYS-5-CONFIG_I: Configured from memory by console
*Mar 17 15:50:36.455: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to down
*Mar 17 15:50:36.455: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0, changed state to up
*Mar 17 15:50:36.459: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/1, changed state to up
*Mar 17 15:50:36.463: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/2, changed state to down
*Mar 17 15:50:36.463: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/3, changed state to down
*Mar 17 15:50:36.467: %LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up
*Mar 17 15:50:36.759: %SYS-5-RESTART: System restarted --
Cisco IOS Software, 7200 Software (C7200-ADVENTERPRISEK9-M), Version 15.3(3)XB12, RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Tue 19-Nov-13 04:39 by prod_rel_team
*Mar 17 15:50:36.807: %SNMP-5-COLDSTART: SNMP agent on host R1 is undergoing a cold start
*Mar 17 15:50:37.027: %CRYPTO-6-ISAKMP_ON_OFF: ISAKMP is OFF
*Mar 17 15:50:37.027: %CRYPTO-6-GDOI_ON_OFF: GDOI is OFF
*Mar 17 15:50:37.519: %LINK-5-CHANGED: Interface FastEthernet0/0, changed state to administratively down
*Mar 17 15:50:37.927: %LINK-5-CHANGED: Interface Ethernet1/2, changed state to administratively down
*Mar 17 15:50:37.959: %LINK-5-CHANGED: Interface Ethernet1/3, changed state to administratively down
*Mar 17 15:51:17.539: %OSPF-5-ADJCHG: Process 1, Nbr 2.2.2.2 on Ethernet1/0 from LOADING to FULL, Loading Done
R1#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#interfave FastEthernet 0/0
                  ^
% Invalid input detected at '^' marker.

R1(config)#interface FastEthernet 0/0
R1(config-if)#ip address dhcp
R1(config-if)#no shutdown
R1(config-if)#end
R1#
*Mar 17 15:54:12.359: %SYS-5-CONFIG_I: Configured from console by console
R1#
*Mar 17 15:54:12.583: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Mar 17 15:54:13.583: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
R1#
```

Εδώ φαίνονται τα settings του VM μου και είναι όπως δείξατε



Παρ’όλα αυτά ακολουθόντας κατά γράμμα τις οδηγίες που μας δώσατε δεν γίνεται ping



```
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.50.130, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/3/8 ms
R1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#ip domain-lookup
R1(config)#ip name-server 8.8.8.8
R1(config)#end
R1#
*Mar 19 13:37:52.895: %SYS-5-CONFIG_I: Configured from console by console
R1#ping google.com
Translating "google.com"...domain server (8.8.8.8) (192.168.50.1)
% Unrecognized host or address, or protocol not running.

R1#
R1#
R1#ping 8.8.8.8
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 8.8.8.8, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#ping google.com
Translating "google.com"...domain server (8.8.8.8) (192.168.50.1)
% Unrecognized host or address, or protocol not running.

R1#
R1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#int f0/0
R1(config-if)#ip address 10.1.3.1 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#end
R1#
*Mar 19 13:40:41.375: %SYS-5-CONFIG_I: Configured from console by console
R1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#router ospf 1
R1(config-router)#network 10.0.0.0 0.255.255.255 area 0
R1(config-router)#default-information originate
R1(config-router)#end
R1#
*Mar 19 13:42:56.299: %SYS-5-CONFIG_I: Configured from console by console
R1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#ip domain-lookup
R1(config)#ip name-serber 8.8.8.8
                 ^
% Invalid input detected at '^' marker.

R1(config)#ip name-server 8.8.8.8
R1(config)#end
R1#ping
*Mar 19 13:43:36.131: %SYS-5-CONFIG_I: Configured from console by console
R1#ping 8.8.8.8
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 8.8.8.8, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#
```

```
*Mar 19 12:42:26.823: %LINK-5-CHANGED: Interface Ethernet1/3, changed state to administratively down
*Mar 19 12:42:27.651: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/2, changed state to down
*Mar 19 12:42:27.823: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/3, changed state to down
*Mar 19 12:43:05.851: %OSPF-5-ADJCHG: Process 1, Nbr 1.1.1.1 on Ethernet1/0 from LOADING to FULL, Loading Done
*Mar 19 12:43:05.979: %OSPF-5-ADJCHG: Process 1, Nbr 3.3.3.3 on Ethernet1/1 from LOADING to FULL, Loading Done
R2#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R2(config)#int e1/1
R2(config-if)#no shut
R2(config-if)#ip add 10.1.2.2 255.255.255.0
R2(config-if)#
*Mar 19 12:46:45.347: %OSPF-5-ADJCHG: Process 1, Nbr 3.3.3.3 on Ethernet1/1 from FULL to DOWN, Neighbor Down: Interface down or detac
hed
R2(config-if)#int loop 0
R2(config-if)#end
R2#sh
*Mar 19 12:46:58.143: %SYS-5-CONFIG_I: Configured from console by console
R2#sh ip int br
Interface                  IP-Address      OK? Method Status                Protocol
FastEthernet0/0            unassigned      YES NVRAM  administratively down down
Ethernet1/0                10.1.1.2        YES NVRAM  up                    up
Ethernet1/1                10.1.2.2        YES manual up                    up
Ethernet1/2                unassigned      YES NVRAM  administratively down down
Ethernet1/3                unassigned      YES NVRAM  administratively down down
Loopback0                  2.2.2.2         YES NVRAM  up                    up
R2#
*Mar 19 12:48:01.455: %OSPF-5-ADJCHG: Process 1, Nbr 3.3.3.3 on Ethernet1/1 from LOADING to FULL, Loading Done
R2#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R2(config)#router ospf 1
R2(config-router)#router-id 2.2.2.2
R2(config-router)#network 0.0.0.0 255.255.255.255 area 0
R2(config-router)#end
R2#
*Mar 19 12:50:58.323: %SYS-5-CONFIG_I: Configured from console by console
R2#sh ip ospf neigh

Neighbor ID     Pri   State           Dead Time   Address         Interface
3.3.3.3           1   FULL/BDR        00:00:31    10.1.2.3        Ethernet1/1
1.1.1.1           1   FULL/BDR        00:00:39    10.1.1.1        Ethernet1/0
R2#router ospf 1
       ^
% Invalid input detected at '^' marker.

R2#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R2(config)#router ospf 1
R2(config-router)#network 10.0.0.0 0.255.255.255 area 0
R2(config-router)#default-information originate
R2(config-router)#end
R2#
*Mar 19 13:18:48.351: %SYS-5-CONFIG_I: Configured from console by console
R2#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R2(config)#ip domain-lookup
R2(config)#ip name-server 8.8.8.8
R2(config)#end
R2#
*Mar 19 13:21:05.247: %SYS-5-CONFIG_I: Configured from console by console
R2#
```

```
*Mar 19 12:42:27.463: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/2, changed state to down
*Mar 19 12:42:27.599: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/3, changed state to down
*Mar 19 12:43:05.639: %OSPF-5-ADJCHG: Process 1, Nbr 2.2.2.2 on Ethernet1/1 from LOADING to FULL, Loading Done
R3#sh ip int br
Interface                  IP-Address      OK? Method Status                Protocol
FastEthernet0/0            unassigned      YES NVRAM  administratively down down
Ethernet1/0                10.1.1.3        YES NVRAM  up                    up
Ethernet1/1                10.1.5.3        YES NVRAM  up                    up
Ethernet1/2                unassigned      YES NVRAM  administratively down down
Ethernet1/3                unassigned      YES NVRAM  administratively down down
Loopback0                  3.3.3.3         YES NVRAM  up                    up
R3#
*Mar 19 12:47:23.223: %OSPF-5-ADJCHG: Process 1, Nbr 2.2.2.2 on Ethernet1/1 from FULL to DOWN, Neighbor Down: Dead timer expired
R3#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R3(config)#int e1/1
R3(config-if)#no shut
R3(config-if)#ip add 10.1.2.3 255.255.255.0
R3(config-if)#int loop 0
R3(config-if)#
*Mar 19 12:48:01.119: %OSPF-5-ADJCHG: Process 1, Nbr 2.2.2.2 on Ethernet1/1 from LOADING to FULL, Loading Done
R3(config-if)#end
R3#sh
*Mar 19 12:48:06.739: %SYS-5-CONFIG_I: Configured from console by console
R3#sh ip int br
Interface                  IP-Address      OK? Method Status                Protocol
FastEthernet0/0            unassigned      YES NVRAM  administratively down down
Ethernet1/0                10.1.1.3        YES NVRAM  up                    up
Ethernet1/1                10.1.2.3        YES manual up                    up
Ethernet1/2                unassigned      YES NVRAM  administratively down down
Ethernet1/3                unassigned      YES NVRAM  administratively down down
Loopback0                  3.3.3.3         YES NVRAM  up                    up
R3#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R3(config)#router ospf 1
R3(config-router)#router-id 3.3.3.3
R3(config-router)#network 0.0.0.0 255.255.255.255 area 0
R3(config-router)#end
R3#
*Mar 19 12:51:36.607: %SYS-5-CONFIG_I: Configured from console by console
R3#sh ip ospf neigh

Neighbor ID     Pri   State           Dead Time   Address         Interface
2.2.2.2           1   FULL/DR         00:00:35    10.1.2.2        Ethernet1/1
R3#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R3(config)#router ospf 1
R3(config-router)#network 10.0.0.0 0.255.255.255 area 0
R3(config-router)#default-information originate
R3(config-router)#end
R3#
*Mar 19 13:19:36.471: %SYS-5-CONFIG_I: Configured from console by console
R3#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R3(config)#ip domain-lookup
R3(config)#ip name-server 8.8.8.8
R3(config)#end
R3#
*Mar 19 13:21:25.343: %SYS-5-CONFIG_I: Configured from console by console
R3#
```

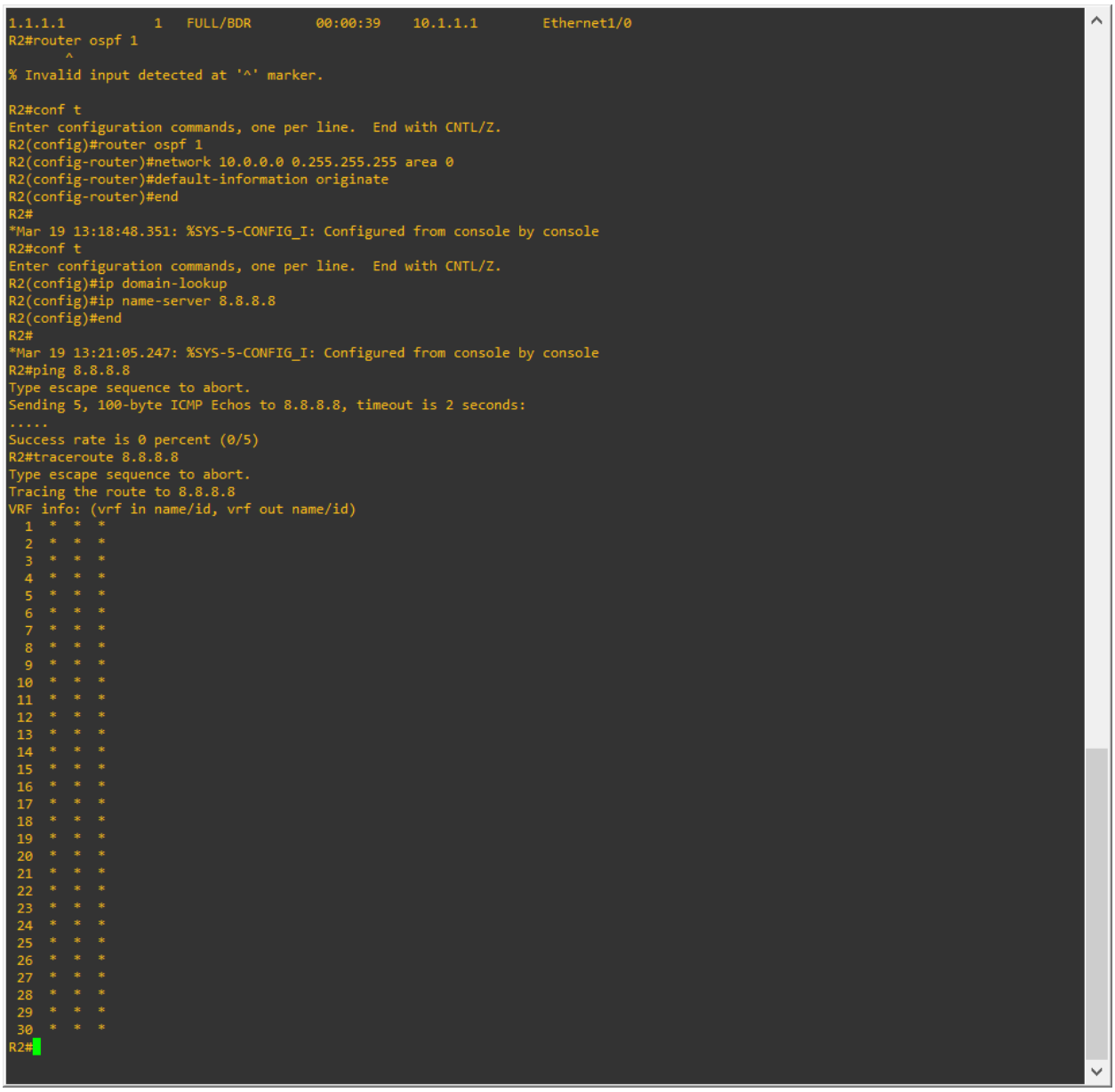
Ping 8.8.8.8

```
R1(config-if)#end
R1#
*Mar 19 13:14:46.055: %SYS-5-CONFIG_I: Configured from console by console
R1#ping 8.8.8.8
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 8.8.8.8, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#conf t
      ^
% Invalid input detected at '^' marker.

R1(config)#router ospf 1
R1(config-router)#network 10.0.0.0 0.255.255.255 area 0
R1(config-router)#default information originate
                          ^
% Invalid input detected at '^' marker.

R1(config-router)#default-information originate
R1(config-router)#end
R1#
*Mar 19 13:17:49.835: %SYS-5-CONFIG_I: Configured from console by console
R1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#ip domain-lookup
R1(config)#ip name-server 8.8.8.8
R1(config)#end
R1#
*Mar 19 13:20:44.239: %SYS-5-CONFIG_I: Configured from console by console
R1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#int f0/0
R1(config-if)#ip nat outside
R1(config-if)#
*Mar 19 13:22:09.947: %LINEPROTO-5-UPDOWN: Line protocol on Interface NVI0, changed state to up
R1(config-if)#int e0/1
      ^
% Invalid input detected at '^' marker.

R1(config)#int e1/0
R1(config-if)#ip nat inside
R1(config-if)#ip nat inside source list 1 interface f0/0 overload
R1(config)#access-list 1 permit 10.0.0.0 0.255.255.255
R1(config)#end
R1#wr
*Mar 19 13:23:50.055: %SYS-5-CONFIG_I: Configured from console by console
R1#wr
Warning: Attempting to overwrite an NVRAM configuration previously written
by a different version of the system image.
Overwrite the previous NVRAM configuration?[confirm]
Building configuration...
[OK]
R1#ping 8.8.8.8
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 8.8.8.8, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#
```

```
R2#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R2(config)#int e1/1
R2(config-if)#no shut
R2(config-if)#ip add 10.1.2.2 255.255.255.0
R2(config-if)#
*Mar 19 12:46:45.347: %OSPF-5-ADJCHG: Process 1, Nbr 3.3.3.3 on Ethernet1/1 from FULL to DOWN, Neighbor Down: Interface down or detac
hed
R2(config-if)#int loop 0
R2(config-if)#end
R2#sh
*Mar 19 12:46:58.143: %SYS-5-CONFIG_I: Configured from console by console
R2#sh ip int br
Interface                  IP-Address      OK? Method Status                Protocol
FastEthernet0/0            unassigned      YES NVRAM  administratively down down
Ethernet1/0                10.1.1.2        YES NVRAM  up                    up
Ethernet1/1                10.1.2.2        YES manual up                    up
Ethernet1/2                unassigned      YES NVRAM  administratively down down
Ethernet1/3                unassigned      YES NVRAM  administratively down down
Loopback0                  2.2.2.2         YES NVRAM  up                    up
R2#
*Mar 19 12:48:01.455: %OSPF-5-ADJCHG: Process 1, Nbr 3.3.3.3 on Ethernet1/1 from LOADING to FULL, Loading Done
R2#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R2(config)#router ospf 1
R2(config-router)#router-id 2.2.2.2
R2(config-router)#network 0.0.0.0 255.255.255.255 area 0
R2(config-router)#end
R2#
*Mar 19 12:50:58.323: %SYS-5-CONFIG_I: Configured from console by console
R2#sh ip ospf neigh

Neighbor ID     Pri   State           Dead Time   Address         Interface
3.3.3.3           1   FULL/BDR        00:00:31    10.1.2.3        Ethernet1/1
1.1.1.1           1   FULL/BDR        00:00:39    10.1.1.1        Ethernet1/0
R2#router ospf 1
       ^
% Invalid input detected at '^' marker.

R2#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R2(config)#router ospf 1
R2(config-router)#network 10.0.0.0 0.255.255.255 area 0
R2(config-router)#default-information originate
R2(config-router)#end
R2#
*Mar 19 13:18:48.351: %SYS-5-CONFIG_I: Configured from console by console
R2#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R2(config)#ip domain-lookup
R2(config)#ip name-server 8.8.8.8
R2(config)#end
R2#
*Mar 19 13:21:05.247: %SYS-5-CONFIG_I: Configured from console by console
R2#ping 8.8.8.8
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 8.8.8.8, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R2#
```

```
R3(config-if)#int loop 0
R3(config-if)#
*Mar 19 12:48:01.119: %OSPF-5-ADJCHG: Process 1, Nbr 2.2.2.2 on Ethernet1/1 from LOADING to FULL, Loading Done
R3(config-if)#end
R3#sh
*Mar 19 12:48:06.739: %SYS-5-CONFIG_I: Configured from console by console
R3#sh ip int br
Interface                  IP-Address      OK? Method Status                Protocol
FastEthernet0/0            unassigned      YES NVRAM  administratively down down
Ethernet1/0                10.1.1.3        YES NVRAM  up                    up
Ethernet1/1                10.1.2.3        YES manual up                    up
Ethernet1/2                unassigned      YES NVRAM  administratively down down
Ethernet1/3                unassigned      YES NVRAM  administratively down down
Loopback0                  3.3.3.3         YES NVRAM  up                    up
R3#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R3(config)#router ospf 1
R3(config-router)#router-id 3.3.3.3
R3(config-router)#network 0.0.0.0 255.255.255.255 area 0
R3(config-router)#end
R3#
*Mar 19 12:51:36.607: %SYS-5-CONFIG_I: Configured from console by console
R3#sh ip ospf neigh

Neighbor ID     Pri   State           Dead Time   Address         Interface
2.2.2.2           1   FULL/DR         00:00:35    10.1.2.2        Ethernet1/1
R3#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R3(config)#router ospf 1
R3(config-router)#network 10.0.0.0 0.255.255.255 area 0
R3(config-router)#default-information originate
R3(config-router)#end
R3#
*Mar 19 13:19:36.471: %SYS-5-CONFIG_I: Configured from console by console
R3#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R3(config)#ip domain-lookup
R3(config)#ip name-server 8.8.8.8
R3(config)#end
R3#
*Mar 19 13:21:25.343: %SYS-5-CONFIG_I: Configured from console by console
R3#ping google.com
Translating "google.com"...domain server (8.8.8.8)
% Unrecognized host or address, or protocol not running.

R3#
R3#ping 8.8.8.8
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 8.8.8.8, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R3#ping 8.8.88
% Unrecognized host or address, or protocol not running.

R3#ping 8.8.8.8
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 8.8.8.8, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R3#
```

Traceroute 8.8.8.8



Έκανα πολλές προσπάθειες με διαφορετικές ρυθμίσεις αλλά ping δεν έκανε οπότε δεν θα σας κουράσω με περισσότερα screenshot εφόσον έχω αποθηκεύσει το project και μπορείτε να το δείτε.

Ευχαριστώ για τον χρόνο σας !

Note * υπάρχει ένα θέμα με το πρόγραμμα Nvidia GeForce Experience και το GNS3 για όταν κάνουμε κάνουμε import portable project οπότε άμα το έχετε πρεπει να το διαγράψετε για να ανοίξει σωστά το project