TASK 2: Design IP address plan

| _ | _ | - | _ | | | | |
|---|---|----|---|----|----|---|---|
| | | J٦ | | ١. | ,, | ^ | N |
| | | | | • | | _ | 1 |
| | | | | | | | |

| Subnet address | First usable address | Last usable address | Subnet mask |
|----------------|----------------------|---------------------|---------------|
| 172.30.0.0 | 172.30.0.1 | 172.30.0.254 | 255.255.255.0 |
| | | | |
| DUT VLAN | | | |
| Subnet address | First usable address | Last usable address | Subnet mask |

172.30.1.254

255.255.255.128

172.30.1.129

CPUT VLAN

172.30.1.128

| Subnet address | First usable address | Last usable address | Subnet mask |
|----------------|----------------------|---------------------|-----------------|
| 172.30.1.0 | 172.30.1.1 | 172.30.1.126 | 255.255.255.128 |

VUT VLAN

| Subnet address | First usable address | Last usable address | Subnet mask |
|----------------|----------------------|---------------------|-----------------|
| 172.30.2.0 | 172.30.2.1 | 172.30.2.62 | 255.255.255.192 |

WAN1

| Subnet address | First usable address | Last usable address | Subnet mask |
|----------------|----------------------|---------------------|-----------------|
| 172.30.2.64 | 172.30.2.65 | 172.30.2.66 | 255.255.255.252 |

WAN2

| Subnet address | First usable address | Last usable address | Subnet mask |
|----------------|----------------------|---------------------|-----------------|
| 172.30.2.68 | 172.30.2.69 | 172.30.2.70 | 255.255.255.252 |

WAN3

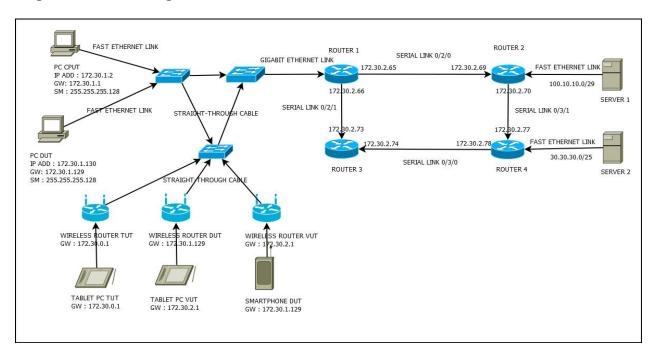
| Subnet address | First usable address | Last usable address | Subnet mask |
|----------------|----------------------|---------------------|-----------------|
| 172.30.2.72 | 172.30.2.73 | 172.30.2.74 | 255.255.255.252 |

WAN4

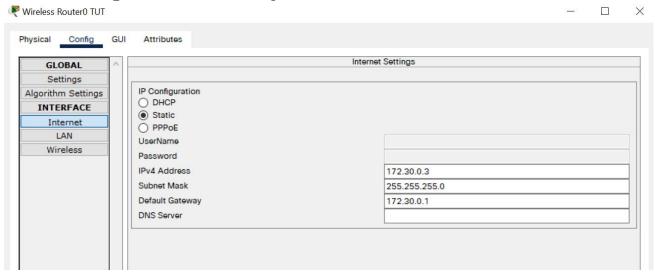
| Subnet address | First usable address | Last usable address | Subnet mask |
|----------------|----------------------|---------------------|-----------------|
| 172.30.2.76 | 172.30.2.77 | 172.30.2.78 | 255.255.255.252 |

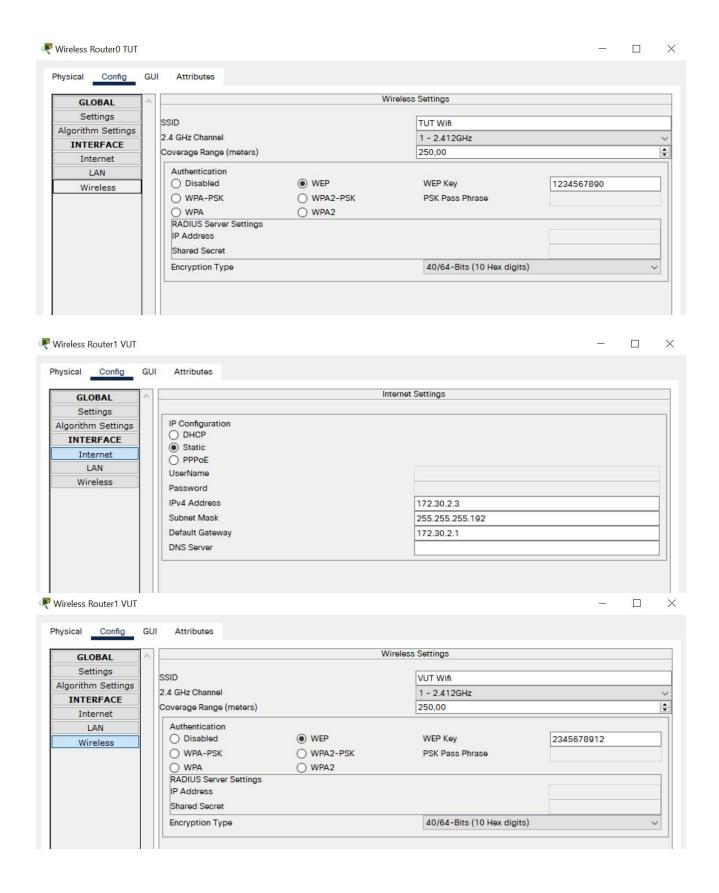
| DEVICE | INTERFAC E | IP ADDRESS | SUBNET MASK | DEFAULT GATEWAY |
|-------------------------|---------------|---------------|-----------------|--------------------|
| Router1 | S0/2/0 | 172.30.2.65 | 255.255.255.252 | N/A |
| | S0/2/1 | 172.30.2.69 | 255.255.255.252 | N/A |
| | G0/1.10 | 172.30.0.1 | 255.255.255.0 | N/A |
| | G0/1.20 | 172.30.1.129 | 255.255.255.128 | N/A |
| | G0/1.30 | 172.30.1.1 | 255.255.255.128 | N/A |
| | G0/1.40 | 172.30.2.1 | 255.255.255.192 | N/A |
| Router 2 | S0/2/0 | 172.30.2.66 | 255.255.255.252 | N/A |
| | S0/3/1 | 172.30.2.73 | 255.255.255.252 | N/A |
| | G0/1 | 30.30.30.1 | 255.255.255.128 | N/A |
| Router 3 | S0/2/1 | 172.30.2.70 | 255.255.255.252 | N/A |
| | S0/3/0 | 172.30.2.78 | 255.255.255.252 | N/A |
| Router 4 | S0/3/0 | 172.30.2.77 | 255.255.255.252 | N/A |
| | S0/3/1 | 172.30.2.74 | 255.255.255.252 | N/A |
| | G0/1 | 100.10.10.1 | 255.255.255.240 | N/A |
| Wireless Router TUT | NIC | 172.30.0.3 | 255.255.255.0 | 172.30.0.1 |
| Wireless Router DUT | NIC | 172.30.1.132 | 255.255.255.128 | 172.30.1.129 |
| Wireless Router VUT | NIC | 172.30.2.3 | 255.255.255.192 | 172.30.2.1 |
| PC0 (CPUT) | NIC | 172.30.1.2 | 255.255.255.128 | 172.30.1.1 |
| PC2 (DUT) | NIC | 172.30.1.130 | 255.255.255.128 | 172.30.1.129 |
| TABLET PC (TUT) | NIC | 192.168.0.100 | 255.255.255.0 | 192.168.0.1 |
| TABLET PC (VUT) | NIC | 192.168.0.100 | 255.255.255.0 | 192.168.0.1 |
| SMARTPHON E (DUT) | NIC | 192.168.0.100 | 192.168.0.1 | 192.168.0.1 |
| Server1 | NIC | 100.10.10.2 | 255.255.255.240 | 100.10.10.1 |
| Server2 | NIC | 30.30.30.2 | 255.255.255.128 | 30.30.30.1 |

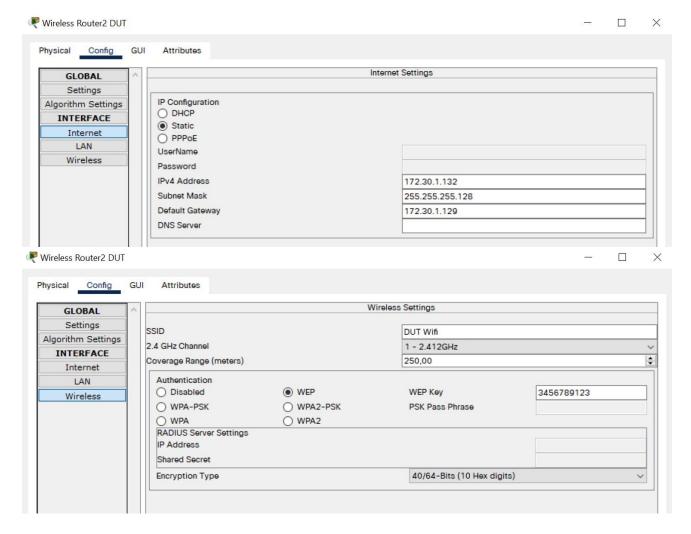
Logical network diagram



TASK 4: Configure wireless security







TASK 5: Configure VTP on all switches.

Switch 1

```
Sl#show vtp status
VTP Version capable
                                : 1 to 2
VTP version running
                                : 2
VTP Domain Name
                                 : cob
VTP Pruning Mode
                                : Disabled
VTP Traps Generation
Device ID
                                 : 0030.F25E.0B00
Configuration last modified by 0.0.0.0 at 3-1-93 00:06:31
Local updater ID is 0.0.0.0 (no valid interface found)
Feature VLAN :
VTP Operating Mode
                                  : Server
Maximum VLANs supported locally
                                  - 255
Number of existing VLANs
                                  : 10
Configuration Revision
                                   : 10
MD5 digest
                                  : 0xE4 0xDD 0x6A 0x4E 0xB1 0x6E 0xF0 0xD6
                                    0xF2 0xD5 0xD0 0x34 0x98 0xBB 0x5E 0x2E
Sl#show vtp password
VTP Password: cob311t
S1#
```

Switch 2

```
S2#show vtp status
VTP Version capable
                                : 1 to 2
VTP version running
VTP Domain Name
                                : cob
VTP Pruning Mode
                                : Disabled
VTP Traps Generation
                                : Disabled
Device ID
                                : 0001.43C1.2100
Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00
Feature VLAN :
VTP Operating Mode
                                  : Client
Maximum VLANs supported locally
                                  : 255
Number of existing VLANs
Configuration Revision
                                  : 0
                                  : 0x55 0xE6 0xA5 0x5E 0x77 0xC3 0x94 0xA2
MD5 digest
                                    0xAA 0x8A 0xB6 0x45 0x14 0x59 0xD9 0x7C
S2#show vtp password
VTP Password: cob311t
S2#
Switch 3
S3#show vtp status
VTP Version capable
                                : 1 to 2
VTP version running
VTP Domain Name
                                : cob
VTP Pruning Mode
                                : Disabled
VTP Traps Generation
                                : Disabled
                                : 000A.F3C4.E700
Device ID
Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00
Feature VLAN :
VTP Operating Mode
                                 : Client
```

: 0x55 0xE6 0xA5 0x5E 0x77 0xC3 0x94 0xA2

0xAA 0x8A 0xB6 0x45 0x14 0x59 0xD9 0x7C

S3#show vtp password VTP Password: cob311t S3#

Number of existing VLANs Configuration Revision

MD5 digest

TASK 6: Create VLANs to separate tut, vut, cput and dut on Backbone

Sl(config) #do show vlan brief

Maximum VLANs supported locally : 255

| VLAN | Name | Status | Ports |
|-------|--------------------|--------|--------------------------------|
| 1 | default | | Fa0/1, Fa0/2, Fa0/3, Fa0/4 |
| | | | Fa0/5, Fa0/6, Fa0/7, Fa0/8 |
| | | | Fa0/9, Fa0/10, Fa0/11, Fa0/12 |
| | | | Fa0/13, Fa0/14, Fa0/15, Fa0/16 |
| | | | Fa0/17, Fa0/18, Fa0/19, Fa0/20 |
| | | | Fa0/21, Fa0/22, Fa0/23, Fa0/24 |
| | | | Gig0/1, Gig0/2 |
| 10 | TUT | active | |
| 20 | DUT | active | |
| 30 | CPUT | active | |
| 40 | VUT | active | |
| 99 | Management | active | |
| 1002 | fddi-default | active | |
| 1003 | token-ring-default | active | |
| 1004 | fddinet-default | active | |
| 1005 | trnet-default | active | |
| S1 (c | onfig) # | | |

TASK 7: Assign ports to VLANs that you created on all switches.

Switch 1
Sl#sh vlan brief

| VLAN | Name | | | Status | |
|-------|---------|--------------|---------------|----------|--------------------------------|
| 1 | defaul | t | | | Fa0/21, Fa0/22, Fa0/23 |
| 10 | TUT | | | active | Fa0/1, Fa0/2, Fa0/3, Fa0/4 |
| | | | | | Fa0/5 |
| 20 | DUT | | | active | Fa0/6, Fa0/7, Fa0/8, Fa0/9 |
| | | | | | Fa0/10 |
| 30 | CPUT | | | active | Fa0/11, Fa0/12, Fa0/13, Fa0/14 |
| | | | | | Fa0/15 |
| 40 | VUT | | | active | Fa0/16, Fa0/17, Fa0/18, Fa0/19 |
| | | | | | Fa0/20 |
| 99 | Manage | ment | | active | |
| 1002 | fddi-d | efault | | active | |
| 1003 | token- | ring-default | | active | |
| 1004 | fddine | t-default | | active | |
| 1005 | trnet- | default | | active | |
| S1#sh | n int t | runk | | | |
| Port | | Mode | Encapsulation | Status | Native vlan |
| Fa0/2 | 24 | on | 802.1q | trunking | g 99 |
| Gig0, | /1 | on | 802.1q | trunking | g 99 |
| Gig0, | /2 | on | 802.1q | trunking | g 99 |
| Port | | Vlans allowe | ed on trunk | | |
| Fa0/2 | 24 | 1-1005 | | | |
| Gig0, | /1 | 1-1005 | | | |
| Gig0, | /2 | 1-1005 | | | |

Switch2

S2#sh vlan brief

| VLAN | Name | | | Status | Ports |
|-------|--------|--------------|-----------------|-----------|--------------------------------|
| 1 | defaul | | | | Fa0/21, Fa0/22, Fa0/23, Fa0/24 |
| | | | | | Gig0/1 |
| 10 | TUT | | | active | Fa0/1, Fa0/2, Fa0/3, Fa0/4 |
| | | | | | Fa0/5 |
| 20 | DUT | | | active | Fa0/6, Fa0/7, Fa0/8, Fa0/9 |
| | | | | | Fa0/10 |
| 30 | CPUT | | | active | Fa0/11, Fa0/12, Fa0/13, Fa0/14 |
| | | | | | Fa0/15 |
| 40 | VUT | | | active | Fa0/16, Fa0/17, Fa0/18, Fa0/19 |
| | | | | | Fa0/20 |
| 99 | Manage | ment | 100 | active | |
| 1002 | fddi-d | efault | | active | |
| 1003 | token- | ring-default | | active | |
| 1004 | fddine | t-default | | active | |
| 1005 | trnet- | default | 14 | active | |
| S2#sh | int t | runk | | | |
| Port | | Mode | Encapsulation | Status | Native vlan |
| Gig0/ | 2 | on | 802.1q | trunkin | g 99 |
| Port | | Vlans allowe | d on trunk | | |
| Gig0/ | /2 | 1-1005 | | | |
| Port | | Vlans allowe | d and active in | n managem | ment domain |
| Gig0/ | /2 | 1,10,20,30,4 | 0,99 | | |
| Port | | Vlans in spa | nning tree for | warding s | tate and not pruned |
| Gia0/ | /2 | 1.10.20.30.4 | 0,99 | | |

Switch 3

S3#sh vlan brief

| | Name | | | Status | Ports | | | |
|-------|---------------------|---|---------------|------------|--|--|--|--|
| | default | | | active | Fa0/21, Fa0/22, Fa0/23, Fa0/24 | | | |
| 10 | TUT | | | active | Gig0/2 Fa0/1, Fa0/2, Fa0/3, Fa0/4 | | | |
| 20 | DUT | | | active | Fa0/5 Fa0/6, Fa0/7, Fa0/8, Fa0/9 | | | |
| 30 | CPUT | | | active | Fa0/10 Fa0/11, Fa0/12, Fa0/13, Fa0/14 | | | |
| 40 | VUT | | | active | Fa0/15 Fa0/16, Fa0/17, Fa0/18, Fa0/19 | | | |
| | Manage | | | active | Fa0/20 | | | |
| 1002 | fddi-default | | | active | | | | |
| 1003 | token-ring-default | | | active | | | | |
| 1004 | 004 fddinet-default | | | active | | | | |
| 1005 | .005 trnet-default | | | active | | | | |
| S3#sh | n int t | runk | | | | | | |
| Port | | Mode | Encapsulation | Status | Native vlan | | | |
| | /1 | | 802.lq | | | | | |
| Port | | Vlans allowed on trunk | | | | | | |
| Gig0/ | /1 | 1-1005 | | | | | | |
| Port | | Vlans allowed and active in management domain | | | | | | |
| Gig0/ | /1 | 1,10,20,30,4 | 0,99 | | | | | |
| Port | | | | warding st | tate and not pruned | | | |
| Gig0/ | /1 | 1,10,20,30,4 | 0,99 | | | | | |

TASK 8: Connect VLANs together

Router 1

| Rl#show ip interface b | rief | | | |
|------------------------|--------------|-----------|-----------------------|----------|
| Interface | IP-Address | OK? Metho | d Status | Protocol |
| GigabitEthernet0/0 | unassigned | YES manua | l up | down |
| GigabitEthernet0/1 | unassigned | YES manua | 1 up | up |
| GigabitEthernet0/1.10 | 172.30.0.1 | YES manua | l up | up |
| GigabitEthernet0/1.20 | 172.30.1.129 | YES manua | 1 up | up |
| GigabitEthernet0/1.30 | 172.30.1.1 | YES manua | l up | up |
| GigabitEthernet0/1.40 | 172.30.2.1 | YES manua | l up | up |
| Serial0/2/0 | 172.30.2.65 | YES manua | l up | up |
| Serial0/2/1 | 172.30.2.69 | YES manua | l up | up |
| Serial0/3/0 | unassigned | YES unset | administratively down | n down |
| Serial0/3/1 | unassigned | YES unset | administratively down | n down |
| Vlanl | unassigned | YES unset | administratively down | n down |
| R1# | | | | |

TASK 9: Configure router interfaces on all routers Router 1

```
Current configuration: 1439 bytes
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
hostname R1
enable secret 5 $1$mERr$Pclz9xBekrICIT0dGLQz80
no ip cef
no ipv6 cef
license udi pid CISCO2901/K9 sn FTX15241C18-
no ip domain-lookup
spanning-tree mode pvst
\verb|interface GigabitEthernet0/0|\\
no ip address
duplex auto
speed auto
interface GigabitEthernet0/1
```

```
no ip address
duplex auto
speed auto
interface GigabitEthernet0/1.10
encapsulation dot1Q 10
ip address 172.30.0.1 255.255.255.0
interface GigabitEthernet0/1.20
encapsulation dot10 20 ip address 172.30.1.129 255.255.255.128
interface GigabitEthernet0/1.30
encapsulation dot1Q 30
ip address 172.30.1.1 255.255.255.128
interface GigabitEthernet0/1.40
encapsulation dot1Q 40
ip address 172.30.2.1 255.255.255.192
interface Serial0/2/0
ip address 172.30.2.65 255.255.255.252
interface Serial0/2/1
ip address 172.30.2.69 255.255.255.252
interface Serial0/3/0
no ip address
clock rate 2000000
shutdown
interface Serial0/3/1
no ip address
clock rate 2000000
shutdown
interface Vlan1
no ip address
shutdown
router rip
version 2
network 172.30.0.0
no auto-summary
ip classless
ip flow-export version 9
no cdp run
line con 0
password password@123
login
line aux 0
line vty 0 4
password password@123
login
end
```

```
Current configuration : 1145 bytes ! hostname R2 ! enable secret 5 $1$mERr$Pclz9xBekrICIT0dGLQz80 ! no ip cef no ipv6 cef ! license udi pid CISCO2901/K9 sn FTX1524F8XD-
```

```
no ip domain-lookup
spanning-tree mode pvst
interface GigabitEthernet0/0
no ip address
duplex auto
speed auto
shutdown
\verb|interface GigabitEthernet0/1|\\
ip address 100.10.10.1 255.255.255.240
duplex auto
speed auto
interface Serial0/2/0
ip address 172.30.2.66 255.255.255.252
clock rate 2000000
interface Serial0/2/1
no ip address
clock rate 2000000
shutdown
interface Serial0/3/0
no ip address
clock rate 2000000
shutdown
interface Serial0/3/1
ip address 172.30.2.73 255.255.255.252
clock rate 2000000
interface Vlan1
no ip address
shutdown
1
router rip
version 2
network 100.0.0.0
network 172.30.0.0
no auto-summary
ip classless
ip flow-export version 9
no cdp run
line con 0
password password@123
login
line aux 0
line vty 0 4
password password@123
login
End
Router 3
Current configuration: 1091 bytes
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
hostname R3
enable secret 5 $1$mERr$Pclz9xBekrICIT0dGLQz80
no ip cef
no ipv6 cef
```

```
license udi pid CISCO2901/K9 sn FTX15240468-
no ip domain-lookup
spanning-tree mode pvst
interface GigabitEthernet0/0
no ip address
duplex auto
speed auto
shutdown
interface GigabitEthernet0/1
no ip address
duplex auto
speed auto
shutdown
interface Serial0/2/0
no ip address
clock rate 2000000
shutdown
interface Serial0/2/1
ip address 172.30.2.70 255.255.255.252
clock rate 2000000
interface Serial0/3/0
ip address 172.30.2.78 255.255.255.252
interface Serial0/3/1
no ip address
clock rate 2000000
shutdown
interface Vlan1
no ip address
shutdown
router rip
version 2
network 172.30.0.0
no auto-summary
ip classless
ip flow-export version 9
no cdp run
line con 0
password password@123
login
line aux 0
line vty 0 4
password password@123
login
end
```

```
Current configuration: 1123 bytes!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption!
hostname R4
enable secret 5 $1$mERr$Pclz9xBekrICIT0dGLQz80
```

```
no ip cef
no ipv6 cef
license udi pid CISCO2901/K9 sn FTX15243459-
no ip domain-lookup
spanning-tree mode pvst
interface GigabitEthernet0/0
no ip address
duplex auto
speed auto
shutdown
interface GigabitEthernet0/1
ip address 30.30.30.1 255.255.252
duplex auto
speed auto
interface Serial0/2/0
no ip address
clock rate 2000000
shutdown
interface Serial0/2/1
no ip address clock rate 2000000
shutdown
interface Serial0/3/0
ip address 172.30.2.77 255.255.255.252
clock rate 2000000
interface Serial0/3/1
ip address 172.30.2.74 255.255.255.252
interface Vlan1
no ip address
shutdown
router rip
version 2
network 30.0.0.0
network 172.30.0.0
no auto-summary
ip classless
ip flow-export version 9
no cdp run
line con 0
password password@123
login
line aux 0
line vty 0 4
password password@123
login
end
```

TASK 10: Configure dynamic routing

Router 1

```
Rl#show 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
       El - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, 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
Gateway of last resort is not set
     30.0.0.0/30 is subnetted, 1 subnets
        30.30.30.0/30 [120/2] via 172.30.2.70, 00:00:16, Serial0/2/1
R
                        [120/2] via 172.30.2.66, 00:00:09, Serial0/2/0
     100.0.0.0/28 is subnetted, 1 subnets
        100.10.10.0/28 [120/1] via 172.30.2.66, 00:00:09, Serial0/2/0
P
     172.30.0.0/16 is variably subnetted, 14 subnets, 5 masks
C
        172.30.0.0/24 is directly connected, GigabitEthernet0/1.10
т.
        172.30.0.1/32 is directly connected, GigabitEthernet0/1.10
C
        172.30.1.0/25 is directly connected, GigabitEthernet0/1.30
L
        172.30.1.1/32 is directly connected, GigabitEthernet0/1.30
C
        172.30.1.128/25 is directly connected, GigabitEthernet0/1.20
т.
        172.30.1.129/32 is directly connected, GigabitEthernet0/1.20
C
        172.30.2.0/26 is directly connected, GigabitEthernet0/1.40
L
        172.30.2.1/32 is directly connected, GigabitEthernet0/1.40
C
        172.30.2.64/30 is directly connected, Serial0/2/0
        172.30.2.65/32 is directly connected, Serial0/2/0
C
        172.30.2.68/30 is directly connected, Serial0/2/1
        172.30.2.69/32 is directly connected, Serial0/2/1
R
        172.30.2.72/30 [120/1] via 172.30.2.66, 00:00:09, Serial0/2/0
R
        172.30.2.76/30 [120/1] via 172.30.2.70, 00:00:16, Serial0/2/1
```

```
R2#show 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, E - EGP
       i - IS-IS, 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
Gateway of last resort is not set
     30.0.0.0/28 is subnetted, 1 subnets
        30.30.30.0/28 [120/1] via 172.30.2.74, 00:00:08, Serial0/3/1
R
     100.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C
        100.10.10.0/28 is directly connected, GigabitEthernet0/1
L
        100.10.10.1/32 is directly connected, GigabitEthernet0/1
     172.30.0.0/16 is variably subnetted, 6 subnets, 2 masks
C
        172.30.2.64/30 is directly connected, Serial0/2/0
        172.30.2.66/32 is directly connected, Serial0/2/0
L
R
        172.30.2.68/30 [120/1] via 172.30.2.65, 00:00:09, Serial0/2/0
       172.30.2.72/30 is directly connected, Serial0/3/1
C
       172.30.2.73/32 is directly connected, Serial0/3/1
L
R
       172.30.2.76/30 [120/2] via 172.30.2.65, 00:00:09, Serial0/2/0
```

Router 3

```
R3#show ip route
R3#show 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, E - EGP

i - IS-IS, 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
Gateway of last resort is not set
             30.0.0.0/28 is subnetted, 1 subnets
30.30.30.0/28 [120/1] via 172.30.2.77, 00:00:19, Serial0/3/0
             100.0.0.0/28 is subnetted, 1 subnets

100.10.10.0/28 [120/2] via 172.30.2.69, 00:00:11, Serial0/2/1

[120/2] via 172.30.2.77, 00:00:19, Serial0/3/0

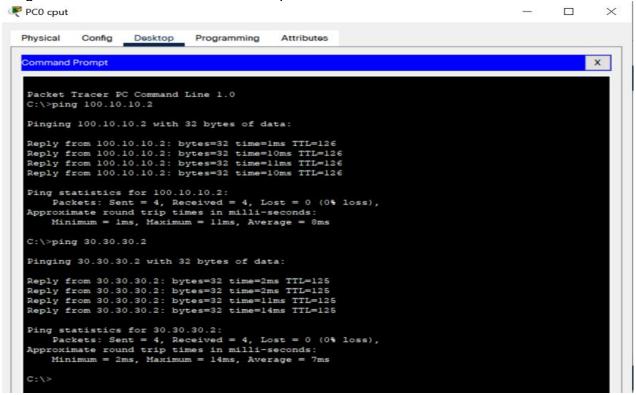
172.30.0.0/16 is variably subnetted, 6 subnets, 2 masks

172.30.2.64/30 [120/1] via 172.30.2.69, 00:00:11, Serial0/2/1
D
                     172.30.2.68/30 is directly connected, Serial0/2/1
172.30.2.70/32 is directly connected, Serial0/2/1
172.30.2.72/30 [120/1] via 172.30.2.77, 00:00:19, Serial0/3/0
C
L
                     172.30.2.76/30 is directly connected, Serial0/3/0 172.30.2.78/32 is directly connected, Serial0/3/0
```

```
R4#show 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, E - EGP i - IS-IS, 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
Gateway of last resort is not set
      30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C
          30.30.30.0/28 is directly connected, GigabitEthernet0/1
          30.30.30.1/32 is directly connected, GigabitEthernet0/1
L
      100.0.0.0/28 is subnetted, 1 subnets
          100.10.10.0/28 [120/1] via 172.30.2.73, 00:00:17, Serial0/3/1
R
      172.30.0.0/16 is variably subnetted, 6 subnets, 2 masks
         172.30.2.64/30 [120/1] via 172.30.2.73, 00:00:17, Serial0/3/1 172.30.2.68/30 [120/1] via 172.30.2.78, 00:00:06, Serial0/3/0
R
R
          172.30.2.72/30 is directly connected, Serial0/3/1 172.30.2.74/32 is directly connected, Serial0/3/1
C
L
         172.30.2.76/30 is directly connected, Serial0/3/0
C
          172.30.2.77/32 is directly connected, Serial0/3/0
```

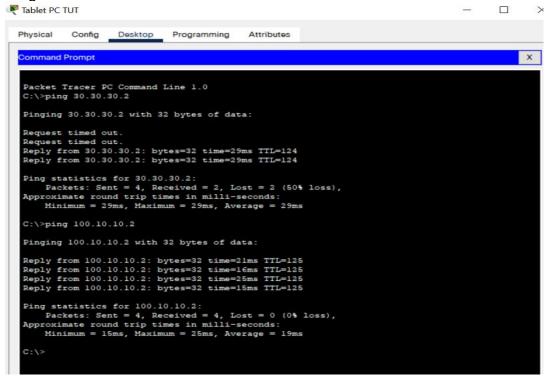
Test connectivity

Ping Server 1 and Server 2 from PC0 cput:

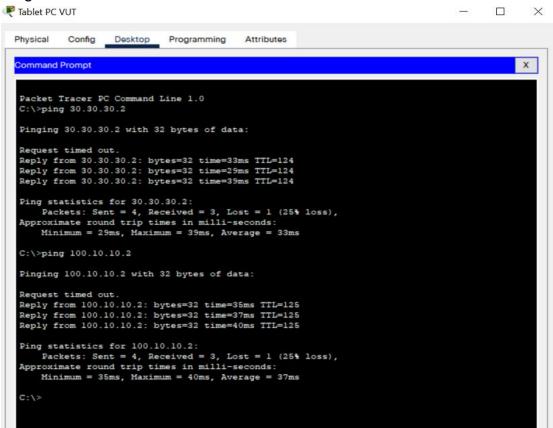


Ping Server 1 and Server 2 from PC2 dut:

Ping Server 1 and Server 2 from Tablet PC TUT:



Ping Server 1 and Server 2 from Tablet PC VUT:



Ping Server 1 and Server 2 from Smartphone DUT:

