ФЕДЕРАЛЬНОЕ АГЕНТСТВО СВЯЗИ ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ БЮДЖЕТНОЕ ОБРАЗОВАТЕЛЬНОЕ УЧРЕЖДЕНИЕ ВЫСШЕГО ОБРАЗОВАНИЯ «САНКТ-ПЕТЕРБУРГСКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ ТЕЛЕКОММУНИКАЦИЙ ИМ. ПРОФ. М.А. БОНЧ-БРУЕВИЧА» (СПбГУТ)

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Лабораторная работа №7

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8.1.4.7 Packet Tracer - Subnetting Scenario 1

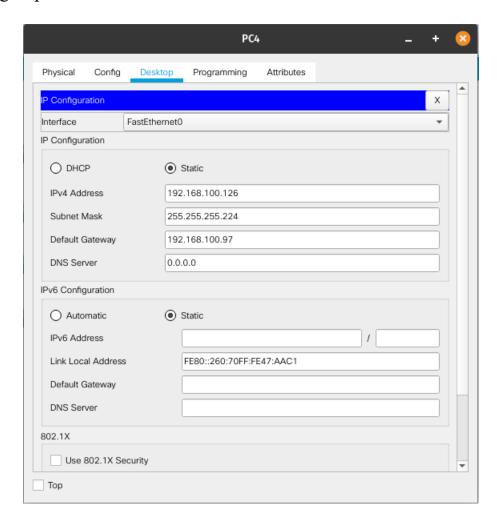
Listing 1: R1 show run

```
1
        version 15.1
 2
        no service timestamps log datetime msec
 3
        no service timestamps debug datetime msec
 4
        no service password-encryption
 5
        hostname R1
 6
 7
        ip cef
 8
        no ipv6 cef
 9
10
        license udi pid CISCO1941/K9 sn FTX1524V069
11
        spanning-tree mode pvst
12
13
        interface GigabitEthernet0/0
14
        ip address 192.168.100.1 255.255.255.224
15
        duplex auto
16
        speed auto
17
18
        interface GigabitEthernet0/1
19
        ip address 192.168.100.33 255.255.255.224
20
        duplex auto
21
        speed auto
22
23
        interface Serial0/0/0
24
        ip address 192.168.100.129 255.255.255.224
25
        clock rate 64000
26
27
        interface Serial0/0/1
28
        no ip address
29
        clock rate 2000000
30
        shutdown
31
32
        interface Vlan1
33
        no ip address
34
        shutdown
35
36
        router eigrp 1
37
        network 192.168.100.0
38
39
        ip classless
40
41
        ip flow-export version 9
42
43
        line con 0
44
45
        line aux 0
46
47
        line vty 0 4
48
        login
49
        end
```

Listing 2: S3 show run

```
1
        version 12.2
 2
        no service timestamps log datetime msec
 3
        no service timestamps debug datetime msec
 4
        no service password-encryption
 5
 6
        hostname S3
 7
 8
        spanning-tree mode pvst
 9
        spanning-tree extend system-id
10
11
        interface FastEthernet0/1
12
13
14
15
        interface FastEthernet0/24
16
17
        interface GigabitEthernet0/1
18
19
        interface GigabitEthernet0/2
20
21
        interface Vlan1
22
        ip address 192.168.100.66 255.255.255.224
23
24
        ip default-gateway 192.168.100.65
25
26
        line con 0
27
28
        line vty 0 4
29
        login
30
        line vty 5 15
31
        login
32
33
        end
```

IP config of pc4



8.2.1.4 Packet Tracer - Designing and Implementing a VLSM Addressing Scheme

Listing 3: Branch 1

```
1
        version 15.1
 2
        no service timestamps log datetime msec
 3
        no service timestamps debug datetime msec
 4
        no service password-encryption
 5
        hostname Branch1
 6
 7
        ip cef
 8
        no ipv6 cef
 9
        !
10
        license udi pid CISCO1941/K9 sn FTX1524V069
11
12
        spanning-tree mode pvst
13
14
        interface GigabitEthernet0/0
15
        ip address 10.11.48.97 255.255.255.240
16
        duplex auto
17
        speed auto
18
19
        interface GigabitEthernet0/1
20
        ip address 10.11.48.65 255.255.255.224
21
        duplex auto
22
        speed auto
23
24
        interface Serial0/0/0
25
        ip address 10.11.48.121 255.255.255.252
26
        clock rate 64000
27
28
        interface Serial0/0/1
29
        no ip address
30
        clock rate 2000000
31
        shutdown
32
33
        interface Vlan1
34
        no ip address
35
        shutdown
36
37
        router eigrp 1
38
        network 10.11.48.0 0.0.0.255
39
40
        ip classless
41
42
        ip flow-export version 9
43
44
        line con 0
45
46
        line aux 0
47
48
        line vty 0 4
49
        login
```

Listing 4: Branch 2

```
1
        version 15.1
 2
        no service timestamps log datetime msec
 3
        no service timestamps debug datetime msec
 4
        no service password-encryption
 5
 6
        hostname Branch2
 7
 8
        ip cef
 9
        no ipv6 cef
10
11
        license udi pid CISCO1941/K9 sn FTX15248AMB
12
13
        spanning-tree mode pvst
14
15
        interface GigabitEthernet0/0
16
        ip address 10.11.48.113 255.255.255.248
17
        duplex auto
18
        speed auto
19
20
        interface GigabitEthernet0/1
21
        ip address 10.11.48.1 255.255.255.192
22
        duplex auto
23
        speed auto
24
25
        interface Serial0/0/0
26
        ip address 10.11.48.122 255.255.255.252
27
28
        interface Serial0/0/1
29
        no ip address
30
        clock rate 2000000
31
        shutdown
32
33
        interface Vlan1
34
        no ip address
35
        shutdown
36
37
        router eigrp 1
38
        network 10.11.48.0 0.0.0.255
39
40
        ip classless
41
42
        ip flow-export version 9
43
44
        line con 0
45
46
        line aux 0
47
48
        line vty 0 4
49
        login
50
51
        end
```

Listing 5: Room-312

```
1
        version 12.2
 2
        no service timestamps log datetime msec
 3
        no service timestamps debug datetime msec
 4
        no service password-encryption
 5
 6
        hostname Room-312
 7
 8
        spanning-tree mode pvst
 9
        spanning-tree extend system-id
10
11
        interface FastEthernet0/1
12
13
14
15
        interface FastEthernet0/24
16
17
        interface GigabitEthernet0/1
18
19
        interface GigabitEthernet0/2
20
21
        interface Vlan1
22
        ip address 10.11.48.114 255.255.255.248
23
24
        ip default-gateway 10.11.48.113
25
26
        line con 0
27
28
        line vty 0 4
29
        login
30
        line vty 5 15
31
        login
32
33
        end
```

IP config PC-D

