## Министерство образования Республики Беларусь

## Учреждение образования БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ ИНФОРМАТИКИ И РАДИОЭЛЕКТРОНИКИ

Факультет компьютерных систем и сетей

Кафедра электронных вычислительных машин

Дисциплина: Оборудование компьютерных сетей

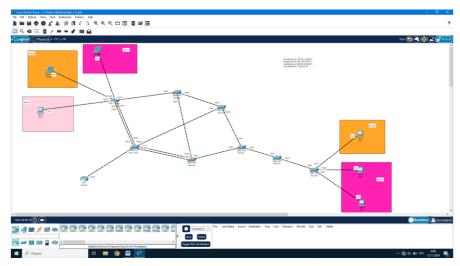
ОТЧЕТ по лабораторной работе № 2

ВАРИАНТ № 112

Преподаватель:	

Студент:

## 1. Реализация топологии в Cisco Packet Tracer



#### 2. Рабочие конфигурации

#### Switch1

```
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,100
switchport mode trunk
!
interface FastEthernet0/2
switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,100
switchport mode trunk
!
interface FastEthernet0/3
switchport trunk native vlan 99
switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,100
switchport trunk allowed vlan 10,20,100
switchport mode trunk
!
interface FastEthernet0/4
!
interface FastEthernet0/5
!
--More--
```

#### Switch2

#### Switch3

```
! spanning-tree mode pvst
spanning-tree extend system-id
! interface FastEthernet0/1
switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,100
switchport mode trunk
! interface FastEthernet0/2
switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,100
switchport trunk allowed vlan 10,20,100
switchport mode trunk
! interface FastEthernet0/3
switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,100
switchport trunk allowed vlan 10,20,100
switchport mode trunk
! interface FastEthernet0/4
! interface FastEthernet0/5
! interface FastEthernet0/6
--More-
```

#### Switch4

```
spanning-tree bpduguard enable
!
interface FastEthernet0/2
switchport access vlan 20
switchport mode access
switchport port-security maximum 2
spanning-tree portfast
spanning-tree bpduguard enable
!
interface FastEthernet0/3
switchport access vlan 10
switchport mode access
spanning-tree bpduguard enable
!
interface FastEthernet0/4
switchport trunk access
spanning-tree bpduguard enable
!
interface FastEthernet0/4
switchport trunk allowed vlan 10,20,100
switchport trunk allowed vlan 10,20,100
switchport mode trunk
duplex full
speed 100
channel-group 1 mode on
!
interface FastEthernet0/5
switchport trunk allowed vlan 10,20,100
switchport trunk allowed vlan 99
switchport trunk allowed vlan 10,20,100
switchport trunk allowed vlan 10,20,100
switchport trunk allowed vlan 10,20,100
switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,100
switchport mode trunk
duplex full
speed 100
channel-group 1 mode on
!
interface FastEthernet0/7
```

#### Switch5

```
IUS Command Line Interrace
 duplex full
 speed 100
 channel-group 1 mode on
.
interface FastEthernet0/3
 switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,100
switchport mode trunk
 duplex full
speed 100
channel-group 1 mode on
interface FastEthernet0/4
 switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,100
 switchport mode trunk
 duplex full
 speed 100
channel-group 2 mode on
interface FastEthernet0/5
 switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,100
switchport mode trunk
 duplex full
speed 100
channel-group 2 mode on
.
interface FastEthernet0/6
 switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,100
 switchport mode trunk
interface FastEthernet0/8
```

#### Switch6

```
| spanning-tree mode pvst spanning-tree extend system-id | interface FastEthernet0/1 switchport access vlan 20 switchport mode access spanning-tree portfast spanning-tree bpduguard enable | interface FastEthernet0/2 switchport access vlan 10 switchport mode access spanning-tree portfast switchport access vlan 10 switchport access vlan 10 switchport access vlan 10 switchport access spanning-tree bpduguard enable | interface FastEthernet0/3 switchport mode access spanning-tree portfast spanning-tree bpduguard enable | interface FastEthernet0/4 switchport trunk native vlan 99 switchport trunk native vlan 99 switchport trunk allowed vlan 10,20,100 switchport mode trunk | interface FastEthernet0/5 | interface FastEthernet0/6 | --More--
```

#### Switch7

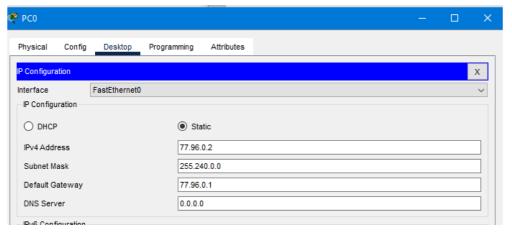
```
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,100
switchport mode trunk
!
interface FastEthernet0/2
switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,100
switchport trunk allowed vlan 10,20,100
switchport mode trunk
!
interface FastEthernet0/3
!
interface FastEthernet0/4
!
interface FastEthernet0/5
--More--
```

#### Switch8

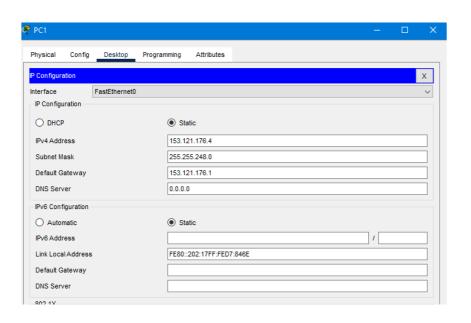
```
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,100
switchport mode trunk
!
interface FastEthernet0/2
switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,100
switchport trunk allowed vlan 10,20,100
switchport mode trunk
!
interface FastEthernet0/3
switchport trunk native vlan 99
switchport trunk allowed vlan 10,20,100
switchport trunk allowed vlan 10,20,100
switchport mode trunk
!
interface FastEthernet0/4
!
interface FastEthernet0/5
--More--
```

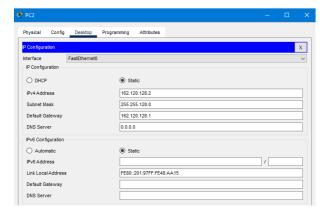
#### Router0

# PC0 (Admin)

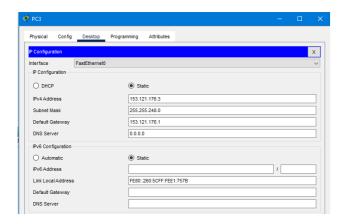


### PC1

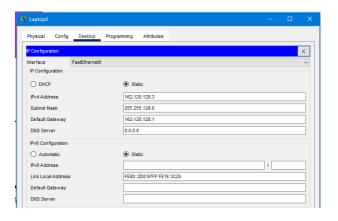




### PC3



## Laptop0



# Laptop1

