

Домашнее задание урок 7.

Настраиваем интерфейсы.

```
enable
```

```
configure terminal
```

```
interface GigabitEthernet 0/1/0
```

```
ipv6 address 2001:db8:abc1::1/64
```

```
no shutdown
```

```
interface GigabitEthernet 0/2/0
```

```
ipv6 address 2001:db8:abc2::2/64
```

```
no shutdown
```

```
interface GigabitEthernet 0/3/0
```

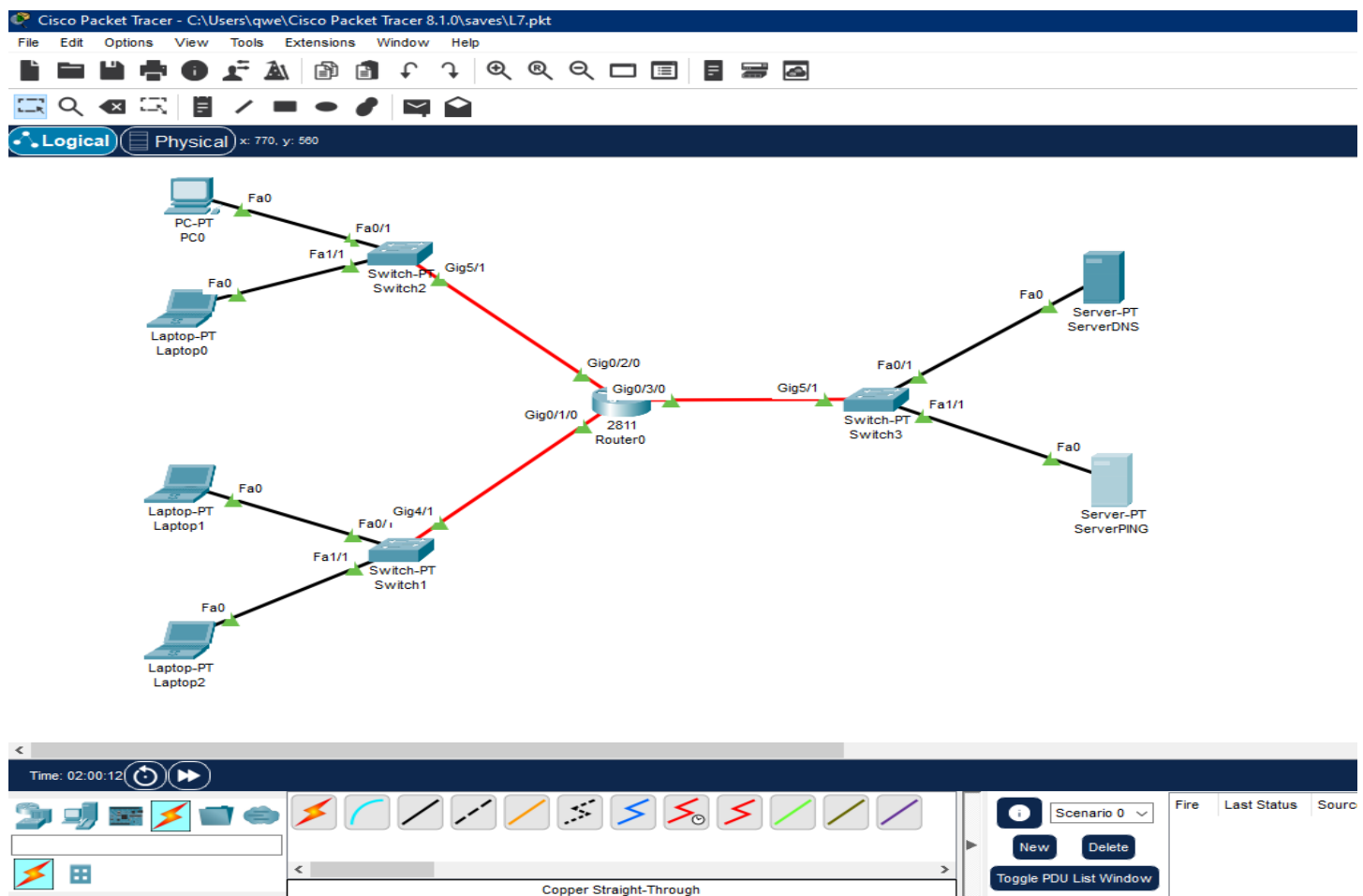
```
ipv6 address 2001:db8:abc3::3/64
```

```
no shutdown
```

```
end
```

```
write
```

После этого интерфейсы зеленые) Двигаемся дальше.



Настраиваем DNS сервер:

The screenshot shows the 'ServerDNS' configuration window in Cisco Packet Tracer. The 'Desktop' tab is selected. The 'IP Configuration' section has 'Static' selected. The 'IPv6 Configuration' section also has 'Static' selected. The configuration fields are as follows:

Section	Field	Value
IP Configuration	IP Address	
	Subnet Mask	
	Default Gateway	0.0.0.0
	DNS Server	0.0.0.0
IPv6 Configuration	IPv6 Address	2001:DB8:ABC3::8 / 64
	Link Local Address	FE80::201:43FF:FE7E:C00A
	Default Gateway	2001:DB8:ABC3::3
	DNS Server	2001:DB8:ABC3::8
802.1X	Use 802.1X Security	<input type="checkbox"/>
	Authentication	MD5
	Username	
	Password	

The bottom panel shows the 'Copper Straight-Through' cable type selected.

Если я все верно усвоил, то это и есть SLAAC.

enable

configure terminal

ipv6 unicast-routing

end

write

Теперь, если мы поставим в свойствах интерфейса автоматическое получение, то будет получен ipv6 адрес, преобразованный из мак-адреса.

Далее включаем DHCPv6 для DNS для сети 2001:db8:abc1::

enable

configure terminal

ipv6 dhcp pool pool_dns_only

dns-server 2001:DB8:ABC3::8

interface GigabitEthernet 0/1/0

ipv6 dhcp server pool_dns_only

ipv6 nd other-config-flag

end

write

Видимо, что все прилетело) и пингуется по имени хоста.

The screenshot displays the Cisco Packet Tracer interface. On the left, a network topology is visible with a central 2811 Router connected to two switches (Switch1 and Switch2) and three laptops (Laptop1, Laptop2, and Laptop3). The router's GigabitEthernet 0/0/20 interface is connected to Switch2's GigabitEthernet 5/1. The router's GigabitEthernet 0/0/10 interface is connected to Switch1's GigabitEthernet 4/1. Laptop1 is connected to Switch1's Fa0/1, Laptop2 to Switch1's Fa0/2, and Laptop3 to Switch2's Fa0/1. The main window shows the configuration for Laptop2. The 'IP Configuration' tab is active, showing the 'FastEthernet0' interface. The 'IPv6 Configuration' section is expanded, showing 'Automatic' selected for the IPv6 configuration. The IPv6 Address is 2001:DB8:ABC1:0:202:4AFF:FE9E:C657, and the Link Local Address is FE80::202:4AFF:FE9E:C657. The Default Gateway is FE80::200:CFF:FE33:D486, and the DNS Server is 2001:DB8:ABC3::8. The '802.1X' section is also visible, showing 'Use 802.1X Security' unchecked and 'Authentication' set to MDS.

Теперь включаем DHCP по полной программе для сети 2001:db8:abc2::

enable

configure terminal

ipv6 dhcp pool pool_all

dns-server 2001:DB8:ABC3::8

address prefix 2001:db8:abc2::/64

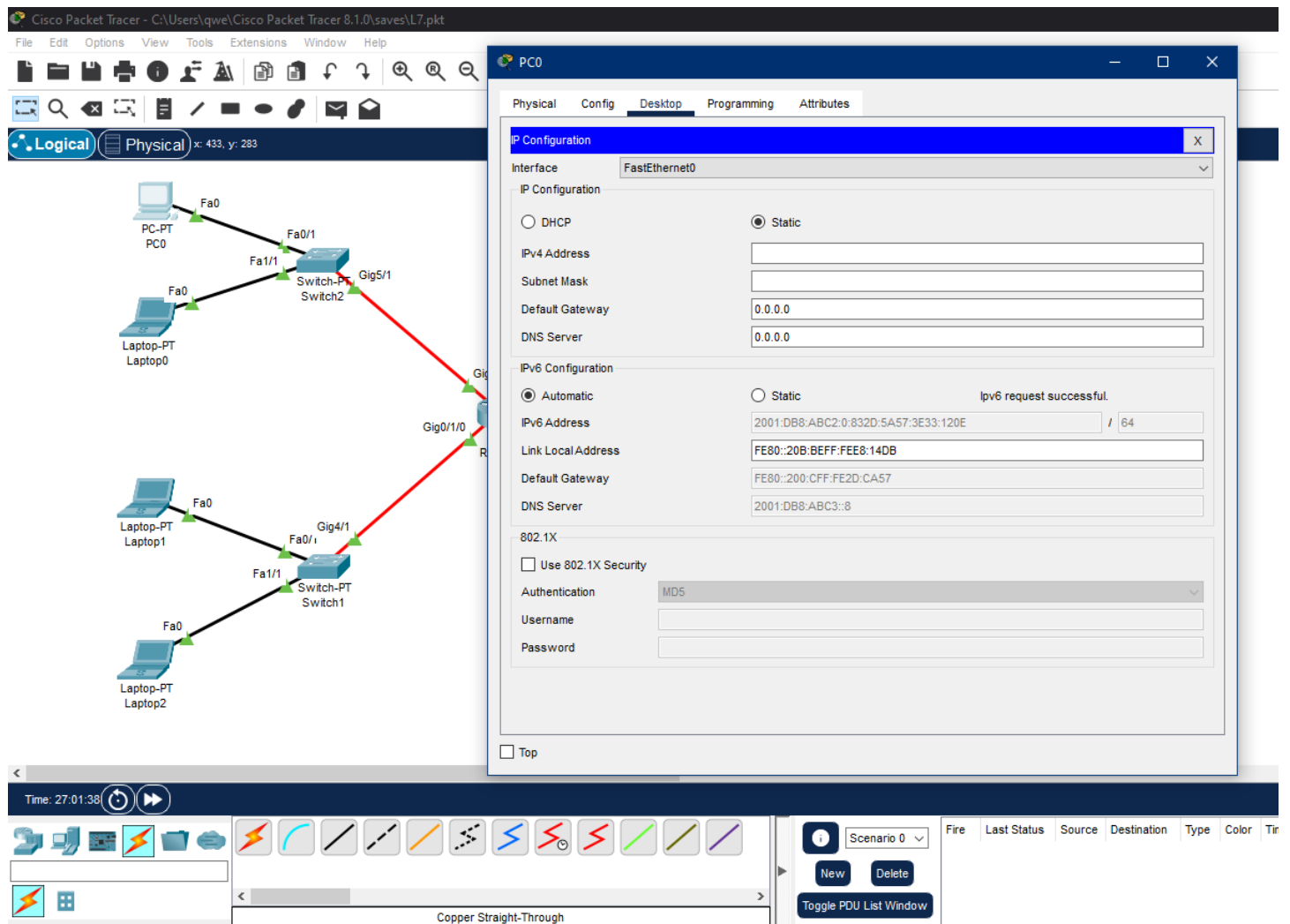
interface GigabitEthernet 0/2/0

ipv6 dhcp server pool_all

ipv6 nd managed-config-flag

end

write



И show run для роутера:

Cisco Packet Tracer - C:\Users\qwe\Cisco Packet Tracer 8.1.0\saves\L7.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x: 482, y: 237

PC-PT PC0
Laptop-PT Laptop0
Laptop-PT Laptop1
Laptop-PT Laptop2

Switch-PT Switch2
Switch-PT Switch1

Router0

Physical Config CLI Attributes

IOS Command Line Interface

```
duplex auto
speed auto
shutdown
!
interface FastEthernet0/1
no ip address
duplex auto
speed auto
shutdown
!
interface GigabitEthernet0/0/0
no ip address
ipv6 address 2001:DB8:ABC0::1/64
!
interface GigabitEthernet0/1/0
no ip address
ipv6 address 2001:DB8:ABC1::1/64
ipv6 nd other-config-flag
ipv6 dhcp server pool_dns_only
!
interface GigabitEthernet0/2/0
no ip address
ipv6 address 2001:DB8:ABC2::1/64
ipv6 nd managed-config-flag
ipv6 dhcp server pool_all
!
interface GigabitEthernet0/3/0
no ip address
ipv6 address 2001:DB8:ABC3::1/64
!
interface Vlan1
no ip address
shutdown
!
--More--
```

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 27:03:44

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time

Copper Straight-Through