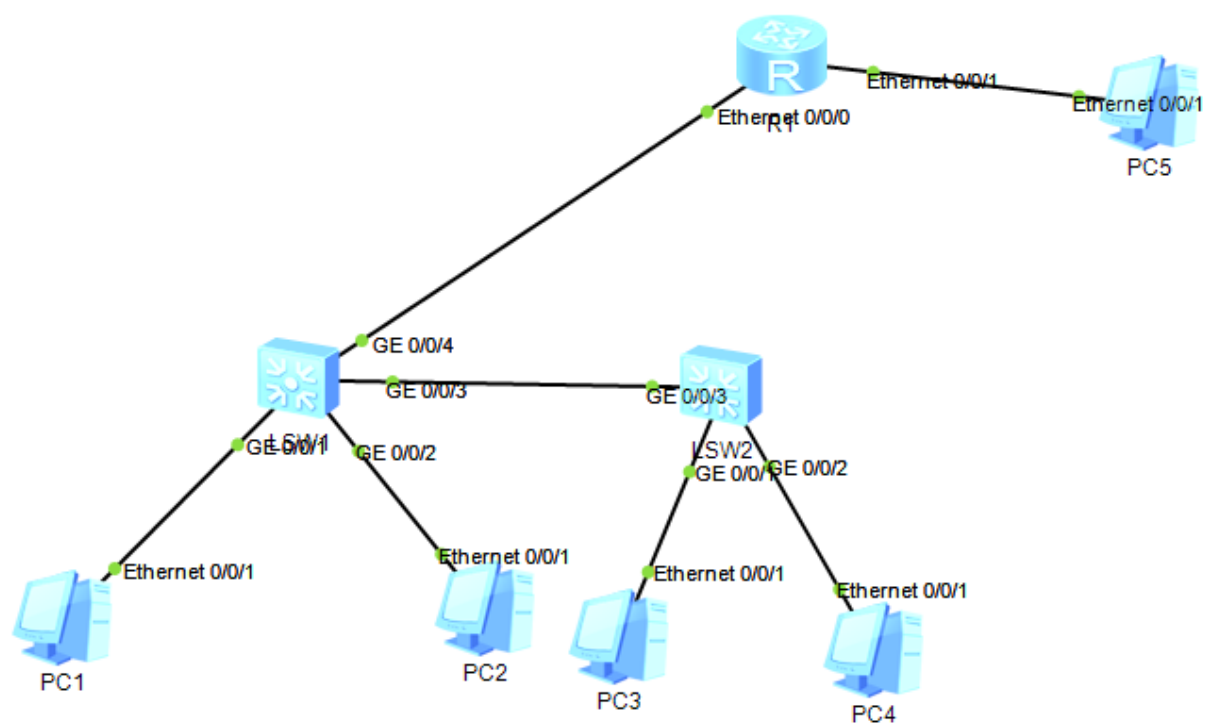


Лабораторная работа №6

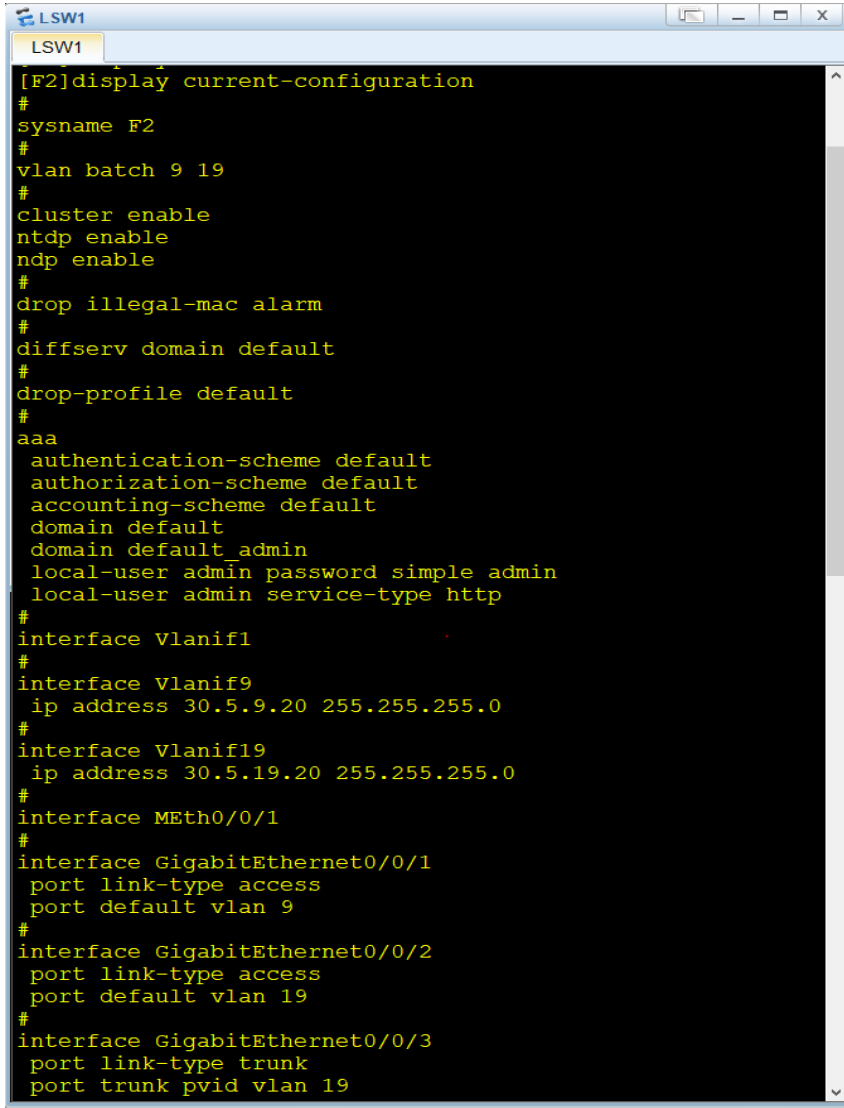
Топология:



Конфигурация R1:

```
R1
[Fl]display current-configuration
#
sysname Fl
#
aaa
 authentication-scheme default
 authorization-scheme default
 accounting-scheme default
 domain default
 domain default_admin
 local-user admin password cipher gbUS-v!p-Y=H)H2[EInBQN`#
 local-user admin service-type http
#
firewall zone Local
 priority 16
#
interface Ethernet0/0/0
#
interface Ethernet0/0/0.9
 dot1q termination vid 9
 ip address 30.5.9.1 255.255.255.0
 arp broadcast enable
#
interface Ethernet0/0/0.19
 dot1q termination vid 19
 ip address 30.5.19.1 255.255.255.0
 arp broadcast enable
#
interface Ethernet0/0/1
 ip address 9.4.21.1 255.255.255.252
#
interface Serial0/0/0
 link-protocol ppp
#
interface Serial0/0/1
 link-protocol ppp
#
interface Serial0/0/2
 link-protocol ppp
#
interface Serial0/0/3
 link-protocol ppp
#
interface GigabitEthernet0/0/0
#
interface GigabitEthernet0/0/1
#
interface GigabitEthernet0/0/2
#
interface GigabitEthernet0/0/3
#
wlan
#
interface NULL0
#
user-interface con 0
user-interface vty 0 4
user-interface vty 16 20
#
return
[Fl]
```

Конфигурация LSW1:

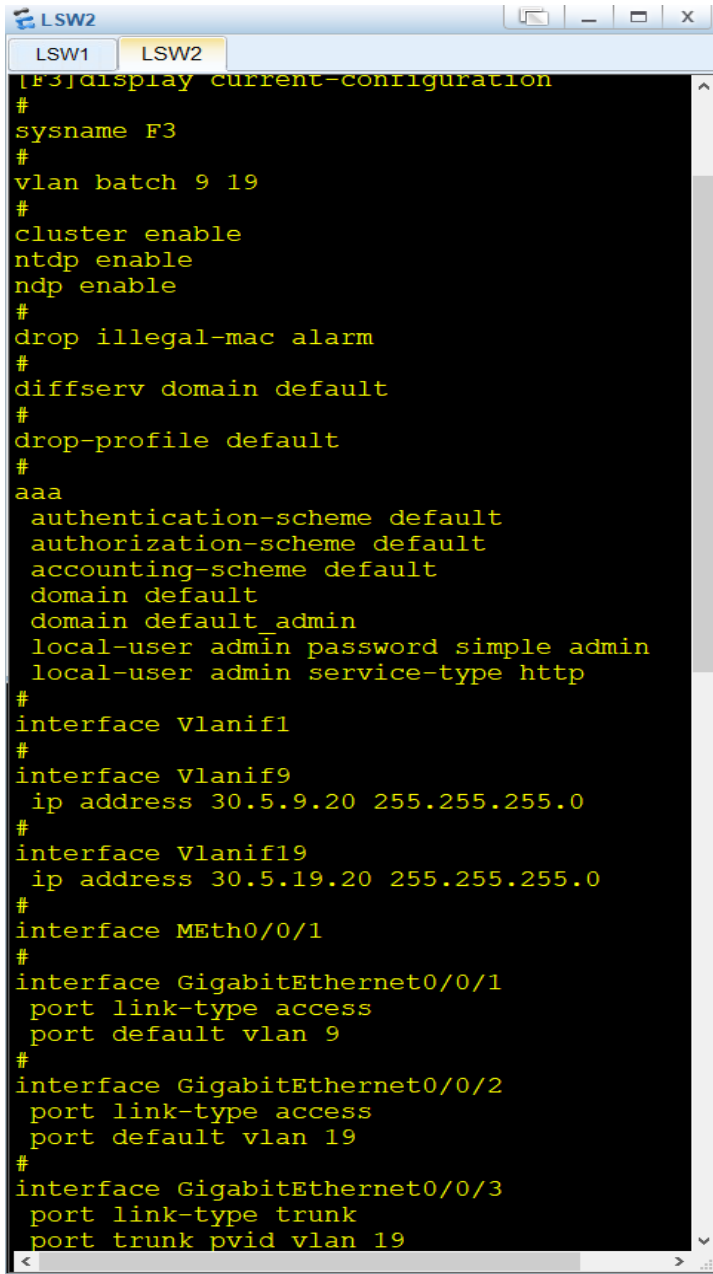
A screenshot of a terminal window titled 'LSW1'. The window shows the output of the command '[F2]display current-configuration'. The configuration is displayed in a monospaced font on a black background. The configuration includes system settings, VLAN configurations, AAA settings, and interface configurations for Vlanif1, Vlanif9, Vlanif19, and three GigabitEthernet interfaces (0/0/1, 0/0/2, 0/0/3).

```
[F2]display current-configuration
#
sysname F2
#
vlan batch 9 19
#
cluster enable
ntdp enable
ndp enable
#
drop illegal-mac alarm
#
diffserv domain default
#
drop-profile default
#
aaa
 authentication-scheme default
 authorization-scheme default
 accounting-scheme default
 domain default
 domain default_admin
 local-user admin password simple admin
 local-user admin service-type http
#
interface Vlanif1
#
interface Vlanif9
 ip address 30.5.9.20 255.255.255.0
#
interface Vlanif19
 ip address 30.5.19.20 255.255.255.0
#
interface MEth0/0/1
#
interface GigabitEthernet0/0/1
 port link-type access
 port default vlan 9
#
interface GigabitEthernet0/0/2
 port link-type access
 port default vlan 19
#
interface GigabitEthernet0/0/3
 port link-type trunk
 port trunk pvid vlan 19
```

```
LSW1
LSW1
#
interface GigabitEthernet0/0/4
 port link-type trunk
 port trunk allow-pass vlan 9 19
#
interface GigabitEthernet0/0/5
#
interface GigabitEthernet0/0/6
#
interface GigabitEthernet0/0/7
#
interface GigabitEthernet0/0/8
#
interface GigabitEthernet0/0/9
#
interface GigabitEthernet0/0/10
#
interface GigabitEthernet0/0/11
#
interface GigabitEthernet0/0/12
#
interface GigabitEthernet0/0/13
#
interface GigabitEthernet0/0/14
#
interface GigabitEthernet0/0/15
#
interface GigabitEthernet0/0/16
#
interface GigabitEthernet0/0/17
#
interface GigabitEthernet0/0/18
#
interface GigabitEthernet0/0/19
#
interface GigabitEthernet0/0/20
#
interface GigabitEthernet0/0/21
#
interface GigabitEthernet0/0/22
#
interface GigabitEthernet0/0/23
#
interface GigabitEthernet0/0/24
#
interface NULL0
#
```

```
[E3]
return
#
n26L-interfaces acl 0
n26L-interfaces con 0
#
ip route-26L 0.0.0.0 0.0.0.0 30.2.10.1
#
interfaces NULL0
```

Конфигурация LSW2:

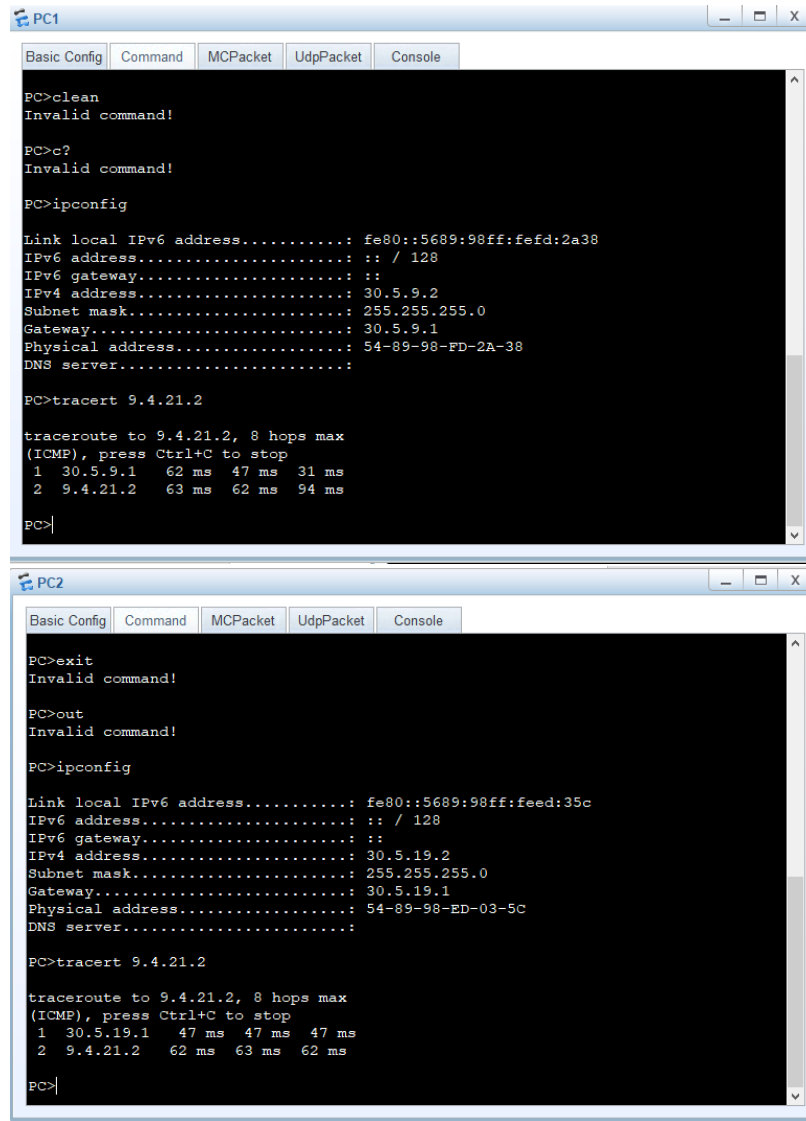


```
[F3]display current-configuration
#
sysname F3
#
vlan batch 9 19
#
cluster enable
ntdp enable
ndp enable
#
drop illegal-mac alarm
#
diffserv domain default
#
drop-profile default
#
aaa
 authentication-scheme default
 authorization-scheme default
 accounting-scheme default
 domain default
 domain default_admin
 local-user admin password simple admin
 local-user admin service-type http
#
interface Vlanif1
#
interface Vlanif9
 ip address 30.5.9.20 255.255.255.0
#
interface Vlanif19
 ip address 30.5.19.20 255.255.255.0
#
interface MEth0/0/1
#
interface GigabitEthernet0/0/1
 port link-type access
 port default vlan 9
#
interface GigabitEthernet0/0/2
 port link-type access
 port default vlan 19
#
interface GigabitEthernet0/0/3
 port link-type trunk
 port trunk pvid vlan 19
```

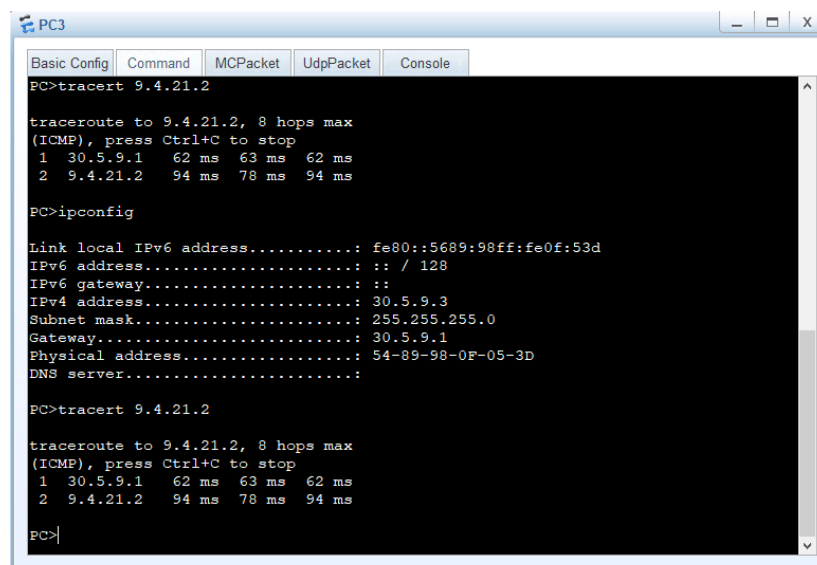


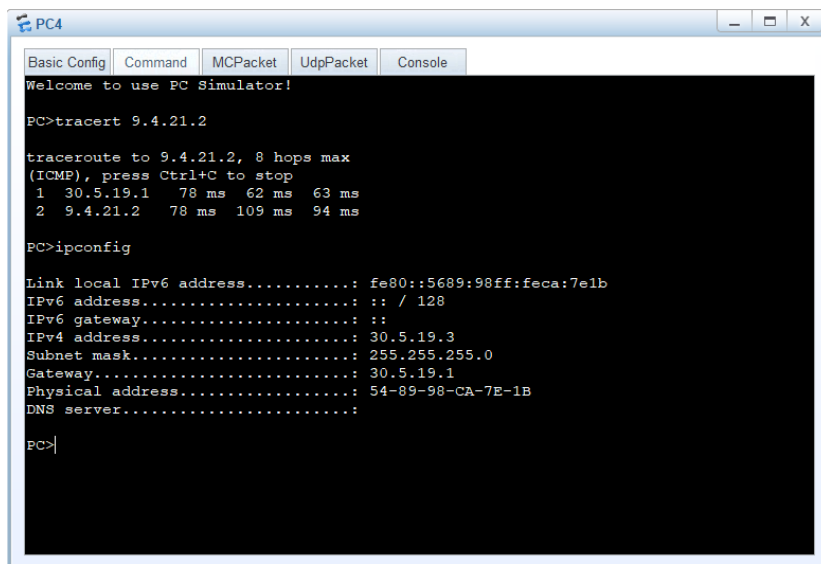
```
#
interface GigabitEthernet0/0/6
#
interface GigabitEthernet0/0/7
#
interface GigabitEthernet0/0/8
#
interface GigabitEthernet0/0/9
#
interface GigabitEthernet0/0/10
#
interface GigabitEthernet0/0/11
#
interface GigabitEthernet0/0/12
#
interface GigabitEthernet0/0/13
#
interface GigabitEthernet0/0/14
#
interface GigabitEthernet0/0/15
#
interface GigabitEthernet0/0/16
#
interface GigabitEthernet0/0/17
#
interface GigabitEthernet0/0/18
#
interface GigabitEthernet0/0/19
#
interface GigabitEthernet0/0/20
#
interface GigabitEthernet0/0/21
#
interface GigabitEthernet0/0/22
#
interface GigabitEthernet0/0/23
#
interface GigabitEthernet0/0/24
#
interface NULL0
#
user-interface con 0
user-interface vty 0 4
#
return
```

Tracert с PC1 и PC2 к PC5:



Tracert с PC3 и PC4 к PC5:





The screenshot shows a PC4 console window with a title bar and tabs for 'Basic Config', 'Command', 'MCPacket', 'UdpPacket', and 'Console'. The 'Console' tab is active, displaying the following text:

```
Welcome to use PC Simulator!

PC>tracert 9.4.21.2

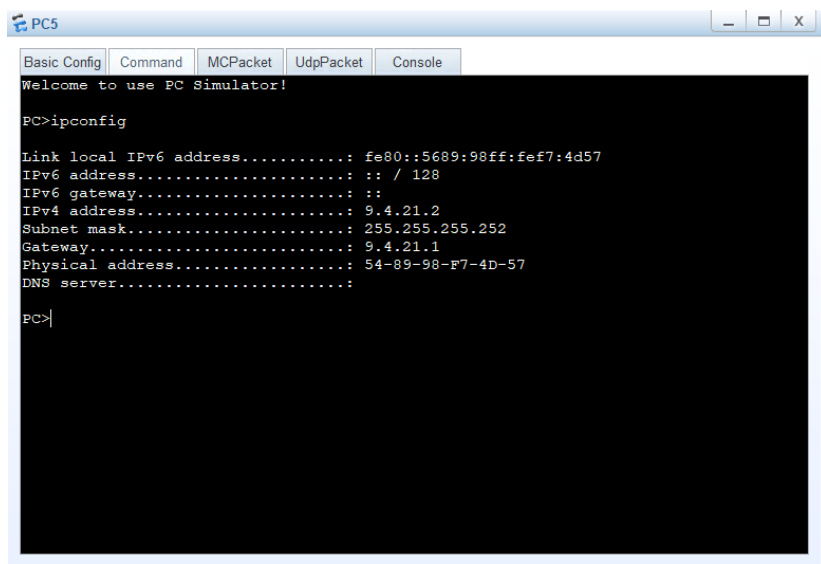
tracert to 9.4.21.2, 8 hops max
(ICMP), press Ctrl+C to stop
 1 30.5.19.1 78 ms 62 ms 63 ms
 2 9.4.21.2 78 ms 109 ms 94 ms

PC>ipconfig

Link local IPv6 address.....: fe80::5689:98ff:feca:7e1b
IPv6 address.....: :: / 128
IPv6 gateway.....: ::
IPv4 address.....: 30.5.19.3
Subnet mask.....: 255.255.255.0
Gateway.....: 30.5.19.1
Physical address.....: 54-89-98-CA-7E-1B
DNS server.....:

PC>|
```

Настройки PC5:



The screenshot shows a PC5 console window with a title bar and tabs for 'Basic Config', 'Command', 'MCPacket', 'UdpPacket', and 'Console'. The 'Console' tab is active, displaying the following text:

```
Welcome to use PC Simulator!

PC>ipconfig

Link local IPv6 address.....: fe80::5689:98ff:fe7:4d57
IPv6 address.....: :: / 128
IPv6 gateway.....: ::
IPv4 address.....: 9.4.21.2
Subnet mask.....: 255.255.255.252
Gateway.....: 9.4.21.1
Physical address.....: 54-89-98-F7-4D-57
DNS server.....:

PC>|
```