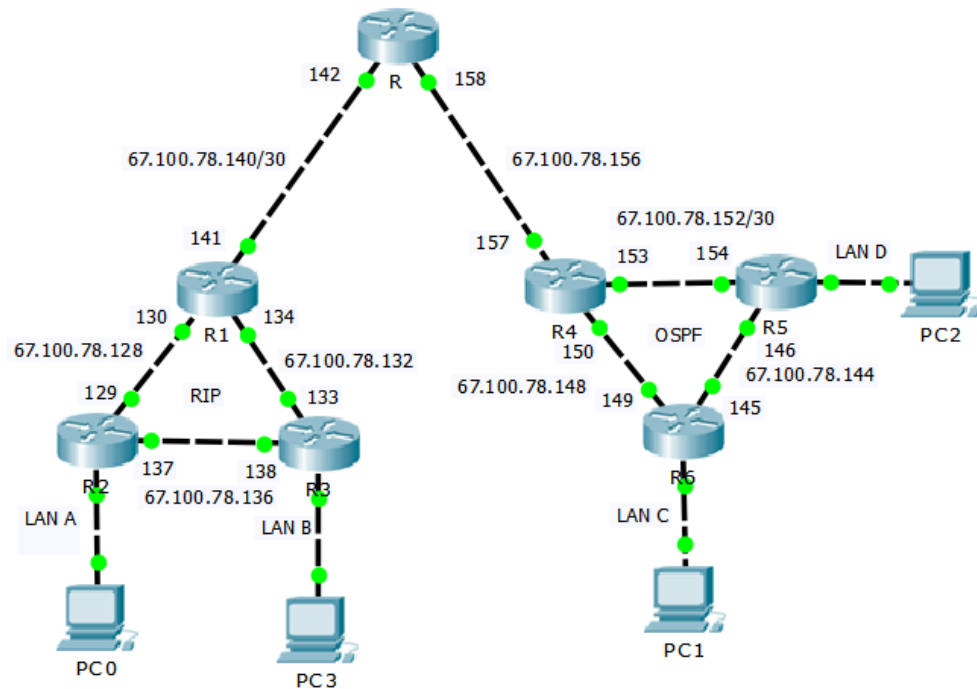


## Схема сети



## Расчет адресов локальных сетей

Параметр	LAN A	LAN B	LAN C	LAN D
Количество узлов	177	48	1122	512
Маска (префикс)	/24	/26	/21	/22
Маска (десятичн.)	255.255.255.0	255.255.255.192	255.255.248.0	255.255.252.0
Маска (инверсная)	0.0.0.255	0.0.0.63	0.0.7.255	0.0.3.255
SUBNET	192.168.105.0	192.168.115.0	172.20.0.0	172.23.0.0
HOSTMIN (router)	192.168.105.1	192.168.115.1	172.20.0.1	172.23.0.1
HOSTMAX (host)	192.168.105.254	192.168.115.63	172.20.7.254	172.23.3.254
BROADCAST	192.168.105.255	192.168.115.63	172.20.7.255	172.23.3.255
Суммарный адрес	192.168.96.0/19		172.20.0.0/14	

### Расчет адресов служебных сетей

Параметр	R-R1	R1-R2	R1-R3	R2-R3
IP-адрес /маска	67.100.78.140/ 30	67.100.78.128/ 30	67.100.78.132/ 30	67.100.78.136/ 30
Суммарный адр. /маска	67.100.78.128/28			
Параметр	R-R4	R4-R5	R4-R6	R5-R6
IP-адрес /маска	67.100.78.156/ 30	67.100.78.152/ 30	67.100.78.148/ 30	67.100.78.144/ 30
Суммарный адр. /маска	67.100.78.144/28			

### Сведения о конфигурации устройств

Устройство	Интерфейс (пассивный?)		IP-адрес	Маска подсети	Шлюз (где необходимо)
<b>R</b>	Fa0/0	-	67.100.78.142	255.255.255.252	-
	Fa2/0	-	67.100.78.158	255.255.255.252	-
<b>R1</b>	Fa0/0	+	67.100.78.141	255.255.255.252	-
	Fa1/0	-	67.100.78.134	255.255.255.252	-
	Fa2/0	-	67.100.78.130	255.255.255.252	-
<b>R2</b>	Fa0/0	-	67.100.78.137	255.255.255.252	-
	Fa1/0	-	67.100.78.129	255.255.255.252	-
	Fa2/0	+	192.168.105.1	255.255.255.0	-
<b>R3</b>	Fa0/0	-	67.100.78.133	255.255.255.252	-
	Fa1/0	-	67.100.78.138	255.255.255.252	-
	Fa2/0	+	192.168.115.1	255.255.255.192	-
<b>R4</b>	Fa0/0	+	67.100.78.157	255.255.255.252	-
	Fa1/0	-	67.100.78.153	255.255.255.252	-
	Fa2/0	-	67.100.78.150	255.255.255.252	-
<b>R5</b>	Fa0/0	-	67.100.78.154	255.255.255.252	-
	Fa1/0	-	67.100.78.146	255.255.255.252	-
	Fa2/0	+	172.23.0.1	255.255.252.0	-
<b>R6</b>	Fa0/0	-	67.100.78.145	255.255.255.252	-
	Fa1/0	-	67.100.78.149	255.255.255.252	-
	Fa2/0	+	172.20.0.1	255.255.248.0	-
<b>PC 0</b>	NIC		192.168.105.254	255.255.255.0	192.168.105.1
<b>PC 1</b>	NIC		172.20.7.254	255.255.248.0	172.20.0.1
<b>PC 2</b>	NIC		172.23.3.254	255.255.252.0	172.23.0.1
<b>PC 3</b>	NIC		192.168.115.63	255.255.255.192	192.168.115.1

**Сведения о таблицах маршрутизации (добавить необходимое число строк)**

<b>Устр-во</b>	<b>SRC</b>	<b>Сеть назначения</b>	<b>AD/ Метрика</b>	<b>Маршрут</b>
R3	R	67.100.78.128	120/1	67.100.78.134
	R	67.100.78.128	120/1	67.100.78.137
	R	67.100.78.140	120/1	67.100.78.134
	R	192.168.105.0/24	120/1	67.100.78.137
	R*	0.0.0.0/0	120/1	67.100.78.134
R6	O	67.100.78.152	110/2	67.100.78.146
	O	67.100.78.152	110/2	67.100.78.150
	O	172.23.0.0	110/2	67.100.78.146
	O*E2	0.0.0.0/0	110/1	67.100.78.150
R	S	67.100.78.128/28	1/0	67.100.78.141
	S	67.100.78.144/28	1/0	67.100.78.157
	S	172.20.0.0/14	1/0	67.100.78.157
	S	192.168.96.0/19	1/0	67.100.78.141