МИНОБРНАУКИ РОССИИ САНКТ-ПЕТЕРБУРГСКИЙ ГОСУДАРСТВЕННЫЙ ЭЛЕКТРОТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ «ЛЭТИ» ИМ. В.И. УЛЬЯНОВА (ЛЕНИНА) Кафедра МО ЭВМ

ОТЧЕТ

по лабораторной работе №2

по дисциплине «Сети и телекоммуникации»

Тема: Настройка таблиц маршрутизации.

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Цель работы.

Изучить и практически освоить методы статической маршрутизации на узлах сетевого уровня в IP-сетях.

Задание.

- 1. Для всех узлов сети установить IP-адреса, маски подсетей и шлюзы по умолчанию, чтобы добиться успешного выполнения Echo-запроса ближайших соседей (находящихся в одной подсети).
- 2. Настроить таблицы маршрутизации на маршрутизаторах, чтобы добиться доставки пакетов от узла K1 к узлу K2 и обратно, от узла K2 к K3 и обратно, от узла K3 к K1 и обратно. Пакеты должны доходить до узлов кратчайшим путем.
- 3. Настроить таблицы маршрутизации на узлах K1, K2 и K3, чтобы обеспечить кратчайшую доставку пакетов между этими узлами, если это невозможно было обеспечить в п. 2.

В отчете привести конфигурацию TCP/IP для каждого из узлов, таблицы маршрутизации, результаты Echo-запросов между узлами K1, K2 и K3, а также обоснование правильности и оптимальности выбранных маршрутов.

Вариант 13. Файл со схемой сети: lab2_var13.jfst. Все маршрутизаторы и компьютеры имеют адреса из диапазона 172.1.1.1 – 172.254.254.254. Обозначения в задании: K1 - PC1, K2 - PC2, K3 - PC3.

Выполнение работы.

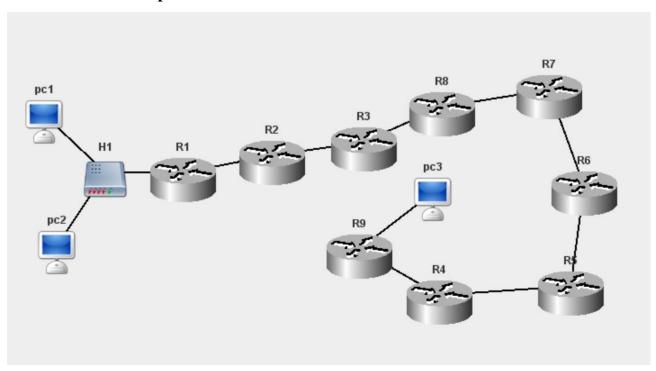


Рис. 1. – Исходная схема сети.

1. Для всех узлов сети установлены IP-адреса, маски подсетей и шлюзы по умолчанию:

Node name	Interface	IP-address	Subnet mask	Default
				Gateway
pc1	eth0	172.168.0.1	255.255.255.0	172.168.0.11
pc2	eth0	172.168.0.2	255.255.255.0	172.168.0.11
рс3	eth0	172.168.8.2	255.255.255.0	172.168.8.1
R1	eth0	172.168.0.11	255.255.255.0	172.168.100.2
	eth1	172.168.100.1	255.255.255.0	
R2	eth0	172.168.100.2	255.255. 255.0	172.168.1.2
	eth1	172.168.1.1	255.255. 255.0	
R3	eth0	172.168.1.1	255.255. 255.0	172.168.2.1
	eth1	172.168.2.2	255.255. 255.0	
R4	eth0	172.168.7.1	255.255. 255.0	172.168.7.2
	eth1	172.168.6.2	255.255. 255.0	
R5	eth0	172.168.6.1	255.255. 255.0	172.168.6.2
	eth1	172.168.5.2	255.255. 255.0	

R6	eth0	172.168.4.2	255.255. 255.0	172.168.5.2
	eth1	172.168.5.1	255.255. 255.0	
R7	eth0	172.168.3.2	255.255. 255.0	172.168.4.2
	eth1	172.168.4.1	255.255. 255.0	
R8	eth0	172.168.2.1	255.255. 255.0	172.168.3.2
	eth1	172.168.3.1	255.255. 255.0	
R9	eth0	172.168.8.1	255.255. 255.0	172.168.7.1
	eth1	172.168.7.2	255.255. 255.0	

Табл. 1. – Настройки протокола ТСР/ІР.

2. Для отправки пакетов было выделено 10 подсетей: K1-R1-K2, R1-R2, R2-R3, R3-R8, R8-R7, R7-R6, R6-R5, R5-R4, R4-R9, R9-K3. Соответственно заданным IP-адресам K1 и K2 была определена маска: 255.255.255.0. Таким образом IP-адреса подсетей распознаются верно, без совпадений. Шлюзы по умолчанию распределены на ближайшие к компьютерам маршрутизаторы (R1 для K1 и K2, R9 для K3). Таким образом мы добиваемся успешного выполнения Есhо-запроса ближайших соседей (находящихся в одной подсети) — от K1 до K2 и обратно.

Выполнен Есһо-запрос с К1(рс1) на К2(рс2).

22:19:16-084 pc1	Echo Request Pacl	ket Net	work	Created Echo Request packet to 172.168.0.2
22:19:16-084 pc1AF	RP Discovery Packet	DataLii	nk	Created ARP discovery packet to source MAC address for
IP 172.168.0.2				
22:19:16-084 pc1AF	RP_packet N	Network	Sending	g broadcast packet from ProtocolStack.
22:19:16-084 pc1Eth	nernet Packet L	Link	Sending	g packet from interface 27:8B:67:76:14:8D
22:19:16-084 pc2Eth	nernet Packet L	Link	Recieve	ed and accepted packet at interface 54:C2:BA:1B:84:68
22:19:16-084 pc2AF	RP_packet N	Network	Protoco	olStack received packet from local Interface.
22:19:16-084 pc2AF	RP_packet N	Network	Confirm	ned Packet is for this Network Layer Device.
22:19:16-084 pc2AF	RP Response Packet	DataLii	nk	Created ARP Response packet to 172.168.0.1
22:19:16-084 pc2AF	RP_packet N	Network	Sending	g packet from ProtocolStack (to 172.168.0.1).
22:19:16-084 pc2Eth	nernet Packet L	Link	Sending	g packet from interface 54:C2:BA:1B:84:68
22:19:16-084 pc1Eth	nernet Packet L	Link	Recieve	ed and accepted packet at interface 27:8B:67:76:14:8D
22:19:16-084 pc1AF	RP_packet N	Network	Protoco	olStack received packet from local Interface.
22:19:16-084 pc1AF	RP_packet N	Network	Confirm	ned Packet is for this Network Layer Device.
22:19:16-084 R1 Eth	nernet Packet L	Link	Recieve	ed and dropped packet at interface 41:48:82:26:C1:24
22:19:16-084 R1 Eth	nernet Packet L	Link	Recieve	ed and accepted packet at interface 41:48:82:26:C1:24

22:19:16-084	R1 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:19:16-084	pc1ICMP_packet	Network	Sending packet from ProtocolStack (to 172.168.0.2).
22:19:16-084	pc1Ethernet Packet	Link	Sending packet from interface 27:8B:67:76:14:8D
22:19:16-084	pc2Ethernet Packet	Link	Recieved and accepted packet at interface 54:C2:BA:1B:84:68
22:19:16-084	pc2ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:19:16-084	pc2ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:19:16-084	pc2Echo Reply Packet	Network	Created Echo Reply packet to 172.168.0.1
22:19:16-084	pc2ICMP_packet	Network	Sending packet from ProtocolStack (to 172.168.0.1).
22:19:16-084	pc2Ethernet Packet	Link	Sending packet from interface 54:C2:BA:1B:84:68
22:19:16-084	pc1Ethernet Packet	Link	Recieved and accepted packet at interface 27:8B:67:76:14:8D
22:19:16-084	pc1ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:19:16-084	pc1ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:19:16-084	pc1 Echo Reply Pack	ket Netwo	Echo reply packet received from 172.168.0.2
22:19:16-084	R1 Ethernet Packet	Link	Recieved and dropped packet at interface 41:48:82:26:C1:24

Выполнен Есһо-запрос с К2(рс2) на К1(рс1).

22:21:21-476 pc2Echo Request Packe	t Network	Created Echo Request packet to 172.168.0.1
22:21:21-476 pc2ARP Discovery Pack	ket DataL	ink Created ARP discovery packet to source MAC address for
IP 172.168.0.1		
22:21:21-476 pc2ARP_packet	Network	Sending broadcast packet from ProtocolStack.
22:21:21-476 pc2Ethernet Packet	Link	Sending packet from interface 54:C2:BA:1B:84:68
22:21:21-476 pc1Ethernet Packet	Link	Recieved and accepted packet at interface 27:8B:67:76:14:8D
22:21:21-476 pc1ARP_packet	Network	ProtocolStack received packet from local Interface.
22:21:21-476 pc1ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:21:21-476 pc1ARP Response Pack	et DataL	ink Created ARP Response packet to 172.168.0.2
22:21:21-476 pc1ARP_packet	Network	Sending packet from ProtocolStack (to 172.168.0.2).
22:21:21-476 pc1Ethernet Packet	Link	Sending packet from interface 27:8B:67:76:14:8D
22:21:21-476 pc2Ethernet Packet	Link	Recieved and accepted packet at interface 54:C2:BA:1B:84:68
22:21:21-476 pc2ARP_packet	Network	ProtocolStack received packet from local Interface.
22:21:21-476 pc2ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:21:21-476 R1 Ethernet Packet	Link	Recieved and dropped packet at interface 41:48:82:26:C1:24
22:21:21-476 R1 Ethernet Packet	Link	Recieved and accepted packet at interface 41:48:82:26:C1:24
22:21:21-476 R1 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:21:21-476 pc2ICMP_packet	Network	Sending packet from ProtocolStack (to 172.168.0.1).
22:21:21-476 pc2Ethernet Packet	Link	Sending packet from interface 54:C2:BA:1B:84:68
22:21:21-476 pc1Ethernet Packet	Link	Recieved and accepted packet at interface 27:8B:67:76:14:8D
22:21:21-476 pc1ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:21:21-476 pc1ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:21:21-476 pc1Echo Reply Packet	Network	Created Echo Reply packet to 172.168.0.2
22:21:21-476 pc1ICMP_packet	Network	Sending packet from ProtocolStack (to 172.168.0.2).
22:21:21-476 pc1Ethernet Packet	Link	Sending packet from interface 27:8B:67:76:14:8D
22:21:21-476 pc2Ethernet Packet	Link	Recieved and accepted packet at interface 54:C2:BA:1B:84:68

22:21:21-476 pc2ICMP_j	packet Netwo	rk ProtocolStack received packet from local Interface.
22:21:21-476 pc2ICMP_j	packet Netwo	rk Confirmed Packet is for this Network Layer Device.
22:21:21-476 pc2Echo R	eply Packet Netwo	rk Echo reply packet received from 172.168.0.1
22:21:21-476 R1 Etherne	et Packet Link	Recieved and dropped packet at interface 41:48:82:26:C1:24
22:21:21-476 R1 Etherne	et Packet Link	Recieved and dropped packet at interface 41:48:82:26:C1:24

Остальные шлюзы по умолчанию настроены на ближайшие к маршрутизатору маршрутизаторы в направлении от К1-К2 к К3. Последний (на пути от К1-К2 к К3) маршрутизатор имеет шлюз по умолчанию на ближайший маршрутизатор в обратном направлении – от К3 к К1-К2 (шлюзы по умолчанию: R2 для R1, R3 для R1, R8 для R3, ..., R9 для R4, R4 для R9). Это обеспечивает доставление сигналов от К1-К2 к К3. Чтобы сигнал доходил в обратную сторону, настраиваем таблицы маршрутизаторов для всех узлов R8-R1.

Рис.2-8. – таблицы маршрутизаторов для

R4:

```
S* default/0.0.0.0[0] via 172.168.7.2 (eth0)
S 172.168.0.0/255.255.255.0[0] via 172.168.6.1 (eth1)
C 172.168.6.2/255.255.255.0 is directly connected, eth1
C 172.168.7.1/255.255.255.0 is directly connected, eth0
```

R5:

```
S* default/0.0.0.0[0] via 172.168.6.2 (eth0)
S 172.168.0.0/255.255.255.0[0] via 172.168.5.1 (eth1)
C 172.168.5.2/255.255.255.0 is directly connected, eth1
C 172.168.6.1/255.255.255.0 is directly connected, eth0
```

R6:

```
S* default/0.0.0.0[0] via 172.168.5.2 (eth0)
S 172.168.0.0/255.255.255.0[0] via 172.168.4.1 (eth0)
C 172.168.5.1/255.255.255.0 is directly connected, eth1
C 172.168.4.2/255.255.255.0 is directly connected, eth0
```

R7:

```
S* default/0.0.0.0[0] via 172.168.4.2 (eth0)
S 172.168.0.0/255.255.255.0[0] via 172.168.3.1 (eth0)
C 172.168.4.1/255.255.255.0 is directly connected, eth1
C 172.168.3.2/255.255.255.0 is directly connected, eth0
```

R8:

```
S* default/0.0.0.0[0] via 172.168.3.2 (eth0)
S 172.168.0.0/255.255.255.0[0] via 172.168.2.2 (eth0)
S 172.168.2.0/255.255.255.0[0] via 172.168.2.1 (eth0)
C 172.168.3.1/255.255.255.0 is directly connected, eth1
C 172.168.2.1/255.255.255.0 is directly connected, eth0
```

R3:

```
S* default/0.0.0.0[0] via 172.168.2.1 (eth0)
S 172.168.0.0/255.255.255.0[0] via 172.168.1.1 (eth0)
C 172.168.2.2/255.255.255.0 is directly connected, eth1
C 172.168.1.2/255.255.255.0 is directly connected, eth0
```

R2:

```
S* default/0.0.0.0[0] via 172.168.1.2 (eth0)
S 172.168.0.0/255.255.255.0[0] via 172.168.100.1 (eth0)
C 172.168.1.1/255.255.255.0 is directly connected, eth1
C 172.168.100.2/255.255.255.0 is directly connected, eth0
```

В результате таких настроек успешно выполняются Echo-запросы между всеми узлами настроенных подсетей.

Выполнен Есһо-запрос с К1(рс1) на К3(рс3).

22:29:09-492 pc1Echo Request Packe	t Network	Created Echo Request packet to 172.168.8.2				
22:29:09-492 pc1ARP Discovery Pack	22:29:09-492 pc1ARP Discovery Packet DataLink Created ARP discovery packet to source MAC address					
for IP 172.168.0.11						
22:29:09-492 pc1ARP_packet Network Sending broadcast packet from ProtocolStack.						
22:29:09-492 pc1Ethernet Packet	Link	Sending packet from interface 27:8B:67:76:14:8D				
22:29:09-492 pc2Ethernet Packet	Link	Recieved and accepted packet at interface				
54:C2:BA:1B:84:68						
22:29:09-492 pc2ARP_packet	Network	ProtocolStack received packet from local Interface.				
22:29:09-492 R1 Ethernet Packet	Link	Recieved and accepted packet at interface 41:48:82:26:C1:24				
22:29:09-492 R1 ARP_packet	Network	ProtocolStack received packet from local Interface.				
22:29:09-492 R1 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.				
22:29:09-492 R1 ARP Response Pack	et DataL	cink Created ARP Response packet to 172.168.0.1				
22:29:09-492 R1 ARP_packet	Network	Sending packet from ProtocolStack (to 172.168.0.1).				
22:29:09-492 R1 Ethernet Packet	Link	Sending packet from interface 41:48:82:26:C1:24				
22:29:09-492 pc2Ethernet Packet	Link	Recieved and dropped packet at interface 54:C2:BA:1B:84:68				
22:29:09-492 pc1Ethernet Packet	Link	Recieved and accepted packet at interface 27:8B:67:76:14:8D				
22:29:09-492 pc1ARP_packet	Network	ProtocolStack received packet from local Interface.				
22:29:09-492 pc1ARP_packet	Network	Confirmed Packet is for this Network Layer Device.				
22:29:09-492 pc1ICMP_packet	Network	Sending packet from ProtocolStack (to 172.168.0.11).				
22:29:09-492 pc1Ethernet Packet	Link	Sending packet from interface 27:8B:67:76:14:8D				
22:29:09-492 pc2Ethernet Packet	Link	Recieved and dropped packet at interface 54:C2:BA:1B:84:68				

22:29:09-492 R1 Ethernet Packet	Link	Recieved and accepted packet at interface 41:48:82:26:C1:24
22:29:09-492 R1 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-492 R1 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:29:09-492 R1 ARP Discovery Pack	ket DataI	Link Created ARP discovery packet to source MAC address
for IP 172.168.100.2		
22:29:09-492 R1 ARP_packet	Network	Sending broadcast packet from ProtocolStack.
22:29:09-492 R1 Ethernet Packet	Link	Sending packet from interface C0:3A:B0:3D:9B:91
22:29:09-492 R2 Ethernet Packet	Link	Recieved and accepted packet at interface 68:A1:7A:33:82:9B
22:29:09-492 R2 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-492 R2 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:29:09-492 R2 ARP Response Pack	et DataL	cink Created ARP Response packet to 172.168.100.1
22:29:09-492 R2 ARP_packet	Network	Sending packet from ProtocolStack (to 172.168.100.1).
22:29:09-492 R2 Ethernet Packet	Link	Sending packet from interface 68:A1:7A:33:82:9B
22:29:09-492 R1 Ethernet Packet	Link	Recieved and accepted packet at interface
C0:3A:B0:3D:9B:91		
22:29:09-492 R1 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-492 R1 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:29:09-492 R1 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.100.2).
22:29:09-492 R1 Ethernet Packet	Link	Sending packet from interface C0:3A:B0:3D:9B:91
22:29:09-492 R2 Ethernet Packet	Link	Recieved and accepted packet at interface 68:A1:7A:33:82:9B
22:29:09-492 R2 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-492 R2 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:29:09-492 R2 ARP Discovery Pacl	ket DataL	Link Created ARP discovery packet to source MAC address
for IP 172.168.1.2		
22:29:09-492 R2 ARP_packet	Network	Sending broadcast packet from ProtocolStack.
22:29:09-492 R2 Ethernet Packet	Link	Sending packet from interface 6F:A9:87:34:99:47
22:29:09-492 R3 Ethernet Packet	Link	Recieved and accepted packet at interface B5:74:24:66:B4:A2
22:29:09-492 R3 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-492 R3 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:29:09-492 R3 ARP Response Pack	et DataL	Link Created ARP Response packet to 172.168.1.1
22:29:09-492 R3 ARP_packet	Network	Sending packet from ProtocolStack (to 172.168.1.1).
22:29:09-492 R3 Ethernet Packet	Link	Sending packet from interface B5:74:24:66:B4:A2
22:29:09-492 R2 Ethernet Packet	Link	Recieved and accepted packet at interface 6F:A9:87:34:99:47
22:29:09-492 R2 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-492 R2 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:29:09-492 R2 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.1.2).
22:29:09-492 R2 Ethernet Packet	Link	Sending packet from interface 6F:A9:87:34:99:47
22:29:09-492 R3 Ethernet Packet	Link	Recieved and accepted packet at interface B5:74:24:66:B4:A2
22:29:09-492 R3 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-492 R3 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		,

22:29:09-492 R3 ARP Discovery Pac	ket DataL	ink Created ARP discovery packet to source MAC address
for IP 172.168.2.1		
22:29:09-492 R3 ARP_packet	Network	Sending broadcast packet from ProtocolStack.
22:29:09-492 R3 Ethernet Packet	Link	Sending packet from interface 11:25:14:C2:C5:C2
22:29:09-492 R8 Ethernet Packet	Link	Recieved and accepted packet at interface 2B:55:76:64:49:27
22:29:09-492 R8 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-492 R8 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:29:09-492 R8 ARP Response Paci	ket DataL	cink Created ARP Response packet to 172.168.2.2
22:29:09-492 R8 ARP_packet	Network	Sending packet from ProtocolStack (to 172.168.2.2).
22:29:09-492 R8 Ethernet Packet	Link	Sending packet from interface 2B:55:76:64:49:27
22:29:09-492 R3 Ethernet Packet	Link	Recieved and accepted packet at interface 11:25:14:C2:C5:C2
22:29:09-492 R3 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-492 R3 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:29:09-500 R3 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.2.1).
22:29:09-500 R3 Ethernet Packet	Link	Sending packet from interface 11:25:14:C2:C5:C2
22:29:09-500 R8 Ethernet Packet	Link	Recieved and accepted packet at interface 2B:55:76:64:49:27
22:29:09-500 R8 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-500 R8 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:29:09-500 R8 ARP Discovery Pac	ket DataL	ink Created ARP discovery packet to source MAC address
for IP 172.168.3.2		
22:29:09-500 R8 ARP_packet	Network	Sending broadcast packet from ProtocolStack.
22:29:09-500 R8 ARP_packet 22:29:09-500 R8 Ethernet Packet	Network Link	Sending broadcast packet from ProtocolStack. Sending packet from interface 8C:8B:6A:34:60:98
•		
22:29:09-500 R8 Ethernet Packet	Link	Sending packet from interface 8C:8B:6A:34:60:98
22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet	Link Link	Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A
22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ARP_packet	Link Link Network Network	Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device.
22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet	Link Link Network Network	Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device.
22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP Response Packet	Link Link Network Network ket DataL	Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. cink Created ARP Response packet to 172.168.3.1
22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP Response Packet 22:29:09-500 R7 ARP_packet	Link Link Network Network ket DataL Network	Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Link Created ARP Response packet to 172.168.3.1 Sending packet from ProtocolStack (to 172.168.3.1).
22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP Response Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 Ethernet Packet	Link Link Network Network ket DataL Network Link	Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. ink Created ARP Response packet to 172.168.3.1 Sending packet from ProtocolStack (to 172.168.3.1). Sending packet from interface 4D:87:56:25:4A:9A
22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP Response Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R8 Ethernet Packet	Link Link Network Network ket DataL Network Link Link	Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Link Created ARP Response packet to 172.168.3.1 Sending packet from ProtocolStack (to 172.168.3.1). Sending packet from interface 4D:87:56:25:4A:9A Recieved and accepted packet at interface 8C:8B:6A:34:60:98
22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP Response Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R8 Ethernet Packet 22:29:09-500 R8 ARP_packet	Link Link Network Network ket DataL Network Link Link Network	Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Link Created ARP Response packet to 172.168.3.1 Sending packet from ProtocolStack (to 172.168.3.1). Sending packet from interface 4D:87:56:25:4A:9A Recieved and accepted packet at interface 8C:8B:6A:34:60:98 ProtocolStack received packet from local Interface.
22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP Response Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R8 Ethernet Packet 22:29:09-500 R8 ARP_packet 22:29:09-500 R8 ARP_packet	Link Link Network Network Ket DataL Network Link Link Network Network	Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. ink Created ARP Response packet to 172.168.3.1 Sending packet from ProtocolStack (to 172.168.3.1). Sending packet from interface 4D:87:56:25:4A:9A Recieved and accepted packet at interface 8C:8B:6A:34:60:98 ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device.
22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP Response Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R8 Ethernet Packet 22:29:09-500 R8 ARP_packet 22:29:09-500 R8 ARP_packet 22:29:09-500 R8 ARP_packet	Link Link Network Network Ket DataL Network Link Link Network Network Network	Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Link Created ARP Response packet to 172.168.3.1 Sending packet from ProtocolStack (to 172.168.3.1). Sending packet from interface 4D:87:56:25:4A:9A Recieved and accepted packet at interface 8C:8B:6A:34:60:98 ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Forwarding packet from ProtocolStack(to 172.168.3.2).
22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP Response Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R8 Ethernet Packet 22:29:09-500 R8 ARP_packet 22:29:09-500 R8 ARP_packet 22:29:09-500 R8 ICMP_packet 22:29:09-500 R8 Ethernet Packet	Link Link Network Network Ket DataL Network Link Link Network Network Network Link Network	Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Link Created ARP Response packet to 172.168.3.1 Sending packet from ProtocolStack (to 172.168.3.1). Sending packet from interface 4D:87:56:25:4A:9A Recieved and accepted packet at interface 8C:8B:6A:34:60:98 ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Forwarding packet from ProtocolStack(to 172.168.3.2). Sending packet from interface 8C:8B:6A:34:60:98
22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R8 Ethernet Packet 22:29:09-500 R8 ARP_packet 22:29:09-500 R8 ARP_packet 22:29:09-500 R8 ICMP_packet 22:29:09-500 R8 Ethernet Packet 22:29:09-500 R8 ICMP_packet 22:29:09-500 R8 Ethernet Packet	Link Link Network Network Ket DataL Network Link Link Network Network Network Link Link Network Link Link Network Link Link Link Link	Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Link Created ARP Response packet to 172.168.3.1 Sending packet from ProtocolStack (to 172.168.3.1). Sending packet from interface 4D:87:56:25:4A:9A Recieved and accepted packet at interface 8C:8B:6A:34:60:98 ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Forwarding packet from ProtocolStack(to 172.168.3.2). Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A
22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP Response Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R8 Ethernet Packet 22:29:09-500 R8 ARP_packet 22:29:09-500 R8 ICMP_packet 22:29:09-500 R8 Ethernet Packet 22:29:09-500 R8 ICMP_packet 22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 Ethernet Packet	Link Link Network Network Ket DataL Network Link Link Network Network Link Link Network Network Link Link Network	Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Link Created ARP Response packet to 172.168.3.1 Sending packet from ProtocolStack (to 172.168.3.1). Sending packet from interface 4D:87:56:25:4A:9A Recieved and accepted packet at interface 8C:8B:6A:34:60:98 ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Forwarding packet from ProtocolStack(to 172.168.3.2). Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface.
22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP Response Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R8 Ethernet Packet 22:29:09-500 R8 ARP_packet 22:29:09-500 R8 ICMP_packet 22:29:09-500 R8 Ethernet Packet 22:29:09-500 R8 ICMP_packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ICMP_packet 22:29:09-500 R7 ICMP_packet	Link Link Network Network Ket DataL Network Link Link Network Network Link Link Network Network Link Link Link Link Link Link Link Lin	Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Link Created ARP Response packet to 172.168.3.1 Sending packet from ProtocolStack (to 172.168.3.1). Sending packet from interface 4D:87:56:25:4A:9A Recieved and accepted packet at interface 8C:8B:6A:34:60:98 ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Forwarding packet from ProtocolStack(to 172.168.3.2). Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Packet Received: Network Layer Device is Routable
22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R8 Ethernet Packet 22:29:09-500 R8 ARP_packet 22:29:09-500 R8 ARP_packet 22:29:09-500 R8 ICMP_packet 22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ICMP_packet 22:29:09-500 R7 ICMP_packet forwarding packet.	Link Link Network Network Ket DataL Network Link Link Network Network Link Link Network Network Link Link Link Link Link Link Link Lin	Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Link Created ARP Response packet to 172.168.3.1 Sending packet from ProtocolStack (to 172.168.3.1). Sending packet from interface 4D:87:56:25:4A:9A Recieved and accepted packet at interface 8C:8B:6A:34:60:98 ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Forwarding packet from ProtocolStack(to 172.168.3.2). Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Packet Received: Network Layer Device is Routable
22:29:09-500 R8 Ethernet Packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 ARP Response Packet 22:29:09-500 R7 ARP_packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R8 Ethernet Packet 22:29:09-500 R8 ARP_packet 22:29:09-500 R8 ICMP_packet 22:29:09-500 R8 Ethernet Packet 22:29:09-500 R8 ICMP_packet 22:29:09-500 R7 Ethernet Packet 22:29:09-500 R7 ICMP_packet 22:29:09-500 R7 ICMP_packet 22:29:09-500 R7 ICMP_packet 22:29:09-500 R7 ICMP_packet 60:20:29:09-500 R7 ICMP_packet 22:29:09-500 R7 ICMP_packet 22:29:09-500 R7 ICMP_packet 22:29:09-500 R7 ICMP_packet	Link Link Network Network Ket DataL Network Link Link Network Network Link Link Network Network Link Link Link Link Link Link Link Lin	Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Link Created ARP Response packet to 172.168.3.1 Sending packet from ProtocolStack (to 172.168.3.1). Sending packet from interface 4D:87:56:25:4A:9A Recieved and accepted packet at interface 8C:8B:6A:34:60:98 ProtocolStack received packet from local Interface. Confirmed Packet is for this Network Layer Device. Forwarding packet from ProtocolStack(to 172.168.3.2). Sending packet from interface 8C:8B:6A:34:60:98 Recieved and accepted packet at interface 4D:87:56:25:4A:9A ProtocolStack received packet from local Interface. Packet Received: Network Layer Device is Routable

22:29:09-500	R6 Ethernet Packet	Link	Recieved	and	accepted	packet	at	interface
4C:AC:BC:90:91	:3C							
22:29:09-500	R6 ARP_packet	Network	ProtocolStac	ek receive	ed packet fro	om local Int	erface.	
22:29:09-500	R6 ARP_packet	Network	Confirmed F	Packet is	for this Netv	work Layer	Device	: .
22:29:09-500	R6 ARP Response Packet	et DataL	ink Creat	ted ARP	Response pa	acket to 172	.168.4.	.1
22:29:09-500	R6 ARP_packet	Network	Sending pac	ket from	ProtocolSta	ck (to 172.	168.4.1).
22:29:09-500	R6 Ethernet Packet	Link	Sending pac	ket from	interface 4C	C:AC:BC:90):91:3C	3
22:29:09-500	R7 Ethernet Packet	Link	Recieved an	d accepte	d packet at i	nterface 20	:29:BE	:3E:6C:25
22:29:09-500	R7 ARP_packet	Network	ProtocolStac	ek receive	ed packet fro	om local Int	erface.	
22:29:09-500	R7 ARP_packet	Network	Confirmed F	Packet is	for this Netv	work Layer	Device	: .
22:29:09-500	R7 ICMP_packet	Network	Forward	ing packe	et from Proto	ocolStack(t	o 172.1	68.4.2).
22:29:09-500	R7 Ethernet Packet	Link	Sending pac	ket from	interface 20	:29:BE:3E:	6C:25	
22:29:09-500	R6 Ethernet Packet	Link	Recieved	and	accepted	packet	at	interface
4C:AC:BC:90:91	:3C							
22:29:09-500	R6 ICMP_packet	Network	Protocol	Stack rec	eived packe	t from loca	l Interfa	ace.
22:29:09-500	R6 ICMP_packet	Network	Packet 1	Received	: Network	Layer Dev	vice is	Routable
forwarding packe	t.							
22:29:09-500	R6 ARP Discovery Pack	et DataL	ink Creat	ted ARP	discovery pa	acket to sou	rce MA	C address
for IP 172.168.5.2	2							
22:29:09-500	R6 ARP_packet	Network	Sending broad	adcast pa	cket from P	rotocolStac	k.	
22:29:09-500	R6 Ethernet Packet	Link	Sending pac	ket from	interface 20	:58:78:27:9	D:4B	
22:29:09-500	R5 Ethernet Packet	Link	Recieved an	d accepte	ed packet at	interface 60):62:62	:57:14:8C
22:29:09-500	R5 ARP_packet	Network	ProtocolStac	ck receive	ed packet fro	om local Int	erface.	
22:29:09-500	R5 ARP_packet	Network	Confirmed F	Packet is	for this Netv	work Layer	Device	. .
22:29:09-500	R5 ARP Response Packet	et DataL	ink Creat	ted ARP	Response pa	acket to 172	.168.5.	.1
22:29:09-500	R5 ARP_packet	Network	Sending pac	ket from	ProtocolSta	ck (to 172.	168.5.1).
22:29:09-500	R5 Ethernet Packet	Link	Sending pac	ket from	interface 60	:62:62:57:1	4:8C	
22:29:09-500	R6 Ethernet Packet	Link	Recieved an	d accepte	ed packet at	interface 20):58:78:	:27:9D:4B
22:29:09-500	R6 ARP_packet	Network	ProtocolStac	ck receive	ed packet fro	om local Int	erface.	
22:29:09-500	R6 ARP_packet	Network	Confirmed F	Packet is	for this Netv	work Layer	Device	>.
22:29:09-500	R6 ICMP_packet	Network	Forward	ing packe	et from Proto	ocolStack(t	э 172.1	68.5.2).
22:29:09-500	R6 Ethernet Packet	Link	Sending pac	ket from	interface 20	:58:78:27:9	D:4B	
22:29:09-500	R5 Ethernet Packet	Link	Recieved an	d accepte	ed packet at	interface 60):62:62	:57:14:8C
22:29:09-500	R5 ICMP_packet	Network	Protocol	Stack rec	eived packe	t from loca	l Interfa	ace.
22:29:09-500	R5 ICMP_packet	Network	Packet 1	Received	: Network	Layer Dev	vice is	Routable
forwarding packe	t.							
22:29:09-500	R5 ARP Discovery Pack	et DataL	ink Creat	ted ARP	discovery pa	acket to sou	rce MA	C address
for IP 172.168.6.2	2							
22:29:09-500	R5 ARP_packet	Network	Sending broad	adcast pa	cket from P	rotocolStac	k.	
22:29:09-500	R5 Ethernet Packet	Link	Sending pac	ket from	interface BI	D:7E:2C:5 <i>A</i>	\:7B:64	ŀ
22:29:09-500	R4 Ethernet Packet	Link	Recieved an	•	•			
22:29:09-500	R4 ARP_packet	Network	ProtocolStac		-			
22:29:09-500	R4 ARP_packet	Network	Confirmed F	Packet is	for this Netv	work Layer	Device	. .

22:29:09-500 R4 ARP Response Pack	ket DataL	Link Creat	ted ARP	Response pa	acket to 172	.168.6	.1
22:29:09-500 R4 ARP_packet	Network	Sending pack	ket from	ProtocolSta	ck (to 172.	168.6.1	a).
22:29:09-500 R4 Ethernet Packet	Link	Sending pack	ket from	interface Al	F:92:52:28:	79:A4	
22:29:09-500 R5 Ethernet Packet	Link	Recieved	and	accepted	packet	at	interface
BD:7E:2C:5A:7B:64							
22:29:09-500 R5 ARP_packet	Network	ProtocolStac	k receiv	ed packet fro	om local Int	terface.	
22:29:09-500 R5 ARP_packet	Network	Confirmed P	acket is	for this Netv	work Layer	Device	e.
22:29:09-500 R5 ICMP_packet	Network	Forwardi	ing pack	et from Prote	ocolStack(t	o 172.1	168.6.2).
22:29:09-500 R5 Ethernet Packet	Link	Sending pack	ket from	interface BI	D:7E:2C:5 <i>A</i>	∆:7B:64	4
22:29:09-500 R4 Ethernet Packet	Link	Recieved and	d accept	ed packet at i	interface Al	∃:92:52	2:28:79:A4
22:29:09-500 R4 ICMP_packet	Network	Protocols	Stack re	ceived packe	t from loca	l Interf	ace.
22:29:09-500 R4 ICMP_packet	Network	Packet F	Received	d: Network	Layer Dev	vice is	Routable
forwarding packet.							
22:29:09-500 R4 ARP Discovery Pac	ket DataL	Link Creat	ted ARP	discovery pa	acket to sou	rce M <i>F</i>	AC address
for IP 172.168.7.2							
22:29:09-500 R4 ARP_packet	Network	Sending broa	adcast p	acket from P	rotocolStac	k.	
22:29:09-500 R4 Ethernet Packet	Link	Sending pack	ket from	interface 8E	E:25:8F:2C:	24:5B	
22:29:09-500 R9 Ethernet Packet	Link	Recieved	and	accepted	packet	at	interface
7A:6C:BC:95:C1:3B							
22:29:09-500 R9 ARP_packet	Network	ProtocolStac	k receiv	ed packet fro	om local Int	erface.	
22:29:09-500 R9 ARP_packet	Network	Confirmed P	acket is	for this Netv	work Layer	Device	e.
22:29:09-500 R9 ARP Response Pack	tet DataL	Link Creat	ted ARP	Response pa	acket to 172	.168.7	.1
22:29:09-500 R9 ARP_packet	Network	Sending pack	ket from	ProtocolSta	ck (to 172.	168.7.1	a).
22:29:09-500 R9 Ethernet Packet	Link	Sending pack	ket from	interface 7A	A:6C:BC:95	:C1:3F	3
22:29:09-500 R4 Ethernet Packet	Link	Recieved and	d accept	ed packet at i	interface 8E	:25:8F	7:2C:24:5B
22:29:09-500 R4 ARP_packet	Network	ProtocolStac	k receiv	ed packet fro	om local Int	erface.	
22:29:09-500 R4 ARP_packet	Network	Confirmed P	acket is	for this Netv	work Layer	Device	e.
22:29:09-500 R4 ICMP_packet	Network	Forwardi	ing pack	et from Prote	ocolStack(t	o 172.1	168.7.2).
22:29:09-500 R4 Ethernet Packet	Link	Sending pack	ket from	interface 8E	E:25:8F:2C:	24:5B	
22:29:09-500 R9 Ethernet Packet	Link	Recieved	and	accepted	packet	at	interface
7A:6C:BC:95:C1:3B							
22:29:09-500 R9 ICMP_packet	Network	ProtocolS	Stack re	ceived packe	t from loca	l Interf	ace.
22:29:09-500 R9 ICMP_packet	Network	Packet F	Received	d: Network	Layer Dev	vice is	Routable
forwarding packet.							
22:29:09-500 R9 ARP Discovery Pac	ket DataI	Link Creat	ted ARP	discovery pa	acket to sou	rce MA	AC address
for IP 172.168.8.2							
22:29:09-500 R9 ARP_packet	Network	Sending broa	adcast p	acket from P	rotocolStac	k.	
22:29:09-500 R9 Ethernet Packet	Link	Sending pack	ket from	interface 3F	F:88:58:8B:	27:99	
22:29:09-500 pc3Ethernet Packet	Link	Recieved and	d accept	ed packet at	interface Ca	2:16:84	4:7F:9B:80
22:29:09-500 pc3ARP_packet	Network	ProtocolStac	k receiv	ed packet fro	om local Int	erface.	
22:29:09-500 pc3ARP_packet	Network	Confirmed P	acket is	for this Netv	work Layer	Device	e.
22:29:09-500 pc3ARP Response Pack	tet DataL	Link Creat	ted ARP	Response pa	acket to 172	.168.8	.1
22:29:09-500 pc3ARP_packet	Network	Sending pack	ket from	ProtocolSta	ck (to 172.	168.8.1).

22:29:09-500 pc3Ethernet Packet	Link	Sending packet from interface C2:16:84:7F:9B:80
22:29:09-500 R9 Ethernet Packet	Link	Recieved and accepted packet at interface 3F:88:58:8B:27:99
22:29:09-500 R9 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-500 R9 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:29:09-500 R9 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.8.2).
22:29:09-500 R9 Ethernet Packet	Link	Sending packet from interface 3F:88:58:8B:27:99
22:29:09-500 pc3Ethernet Packet	Link	Recieved and accepted packet at interface C2:16:84:7F:9B:80
22:29:09-500 pc3ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-500 pc3ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:29:09-500 pc3Echo Reply Packet	Network	Created Echo Reply packet to 172.168.0.1
22:29:09-500 pc3ICMP_packet	Network	Sending packet from ProtocolStack (to 172.168.8.1).
22:29:09-500 pc3Ethernet Packet	Link	Sending packet from interface C2:16:84:7F:9B:80
22:29:09-500 R9 Ethernet Packet	Link	Recieved and accepted packet at interface 3F:88:58:8B:27:99
22:29:09-500 R9 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-500 R9 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:29:09-500 R9 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.7.1).
22:29:09-500 R9 Ethernet Packet	Link	Sending packet from interface 7A:6C:BC:95:C1:3B
22:29:09-500 R4 Ethernet Packet	Link	Recieved and accepted packet at interface 8E:25:8F:2C:24:5B
22:29:09-500 R4 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-500 R4 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:29:09-500 R4 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.6.1).
22:29:09-500 R4 Ethernet Packet	Link	Sending packet from interface AF:92:52:28:79:A4
22:29:09-500 R5 Ethernet Packet	Link	Recieved and accepted packet at interface
BD:7E:2C:5A:7B:64		
22:29:09-500 R5 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-500 R5 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:29:09-500 R5 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.5.1).
22:29:09-500 R5 Ethernet Packet	Link	Sending packet from interface 60:62:62:57:14:8C
22:29:09-500 R6 Ethernet Packet	Link	Recieved and accepted packet at interface 20:58:78:27:9D:4B
22:29:09-500 R6 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-500 R6 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:29:09-500 R6 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.4.1).
22:29:09-500 R6 Ethernet Packet	Link	Sending packet from interface 4C:AC:BC:90:91:3C
22:29:09-500 R7 Ethernet Packet	Link	Recieved and accepted packet at interface 20:29:BE:3E:6C:25
22:29:09-500 R7 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-500 R7 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:29:09-500 R7 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.3.1).
22:29:09-500 R7 Ethernet Packet	Link	Sending packet from interface 4D:87:56:25:4A:9A

22:29:09-500 R8 Ethernet Packet	Link	Recieved and accepted packet at interface 8C:8B:6A:34:60:98
22:29:09-500 R8 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-500 R8 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:29:09-500 R8 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.2.2).
22:29:09-500 R8 Ethernet Packet	Link	Sending packet from interface 2B:55:76:64:49:27
22:29:09-500 R3 Ethernet Packet	Link	Recieved and accepted packet at interface 11:25:14:C2:C5:C2
22:29:09-500 R3 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-500 R3 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:29:09-500 R3 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.1.1).
22:29:09-500 R3 Ethernet Packet	Link	Sending packet from interface B5:74:24:66:B4:A2
22:29:09-500 R2 Ethernet Packet	Link	Recieved and accepted packet at interface 6F:A9:87:34:99:47
22:29:09-508 R2 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-509 R2 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:29:09-509 R2 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.100.1).
22:29:09-509 R2 Ethernet Packet	Link	Sending packet from interface 68:A1:7A:33:82:9B
22:29:09-509 R1 Ethernet Packet	Link	Recieved and accepted packet at interface
C0:3A:B0:3D:9B:91		
22:29:09-509 R1 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-509 R1 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:29:09-509 R1 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.0.1).
22:29:09-509 R1 Ethernet Packet	Link	Sending packet from interface 41:48:82:26:C1:24
22:29:09-509 pc2Ethernet Packet	Link	Recieved and dropped packet at interface 54:C2:BA:1B:84:68
22:29:09-509 pc1Ethernet Packet	Link	Recieved and accepted packet at interface 27:8B:67:76:14:8D
22:29:09-509 pc1ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:29:09-509 pc1ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:29:09-509 pc1	cket Netwo	ork Echo reply packet received from 172.168.8.2
Выполнен Есһо-запрос	с К3 на К	1.
Вывод программы:		
22:30:53-651 pc3Echo Request Packe	et Network	Created Echo Request packet to 172.168.0.1
22:30:53-651 pc3ICMP_packet	Network	Sending packet from ProtocolStack (to 172.168.8.1).
22:30:53-651 pc3Ethernet Packet	Link	Sending packet from interface C2:16:84:7F:9B:80
22:30:53-651 R9 Ethernet Packet	Link	Recieved and accepted packet at interface 3F:88:58:8B:27:99
22:30:53-651 R9 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-651 R9 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		,
22:30:53-651 R9 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.7.1).
22:30:53-651 R9 Ethernet Packet	Link	Sending packet from interface 7A:6C:BC:95:C1:3B
22 20 52 651 D4 F4	T · 1	D : 1 1

Recieved and accepted packet at interface 8E:25:8F:2C:24:5B

Link

22:30:53-651 R4 Ethernet Packet

22:30:53-651 R4 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-651 R4 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:30:53-651 R4 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.6.1).
22:30:53-651 R4 Ethernet Packet	Link	Sending packet from interface AF:92:52:28:79:A4
22:30:53-651 R5 Ethernet Packet	Link	Recieved and accepted packet at interface
BD:7E:2C:5A:7B:64		
22:30:53-651 R5 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-651 R5 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:30:53-651 R5 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.5.1).
22:30:53-651 R5 Ethernet Packet	Link	Sending packet from interface 60:62:62:57:14:8C
22:30:53-651 R6 Ethernet Packet	Link	Recieved and accepted packet at interface 20:58:78:27:9D:4B
22:30:53-651 R6 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-651 R6 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:30:53-651 R6 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.4.1).
22:30:53-651 R6 Ethernet Packet	Link	Sending packet from interface 4C:AC:BC:90:91:3C
22:30:53-651 R7 Ethernet Packet	Link	Recieved and accepted packet at interface 20:29:BE:3E:6C:25
22:30:53-654 R7 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-654 R7 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:30:53-654 R7 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.3.1).
22:30:53-654 R7 Ethernet Packet	Link	Sending packet from interface 4D:87:56:25:4A:9A
22:30:53-654 R8 Ethernet Packet	Link	Recieved and accepted packet at interface 8C:8B:6A:34:60:98
22:30:53-654 R8 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-654 R8 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:30:53-654 R8 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.2.2).
22:30:53-654 R8 Ethernet Packet	Link	Sending packet from interface 2B:55:76:64:49:27
22:30:53-654 R3 Ethernet Packet	Link	Recieved and accepted packet at interface 11:25:14:C2:C5:C2
22:30:53-654 R3 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-654 R3 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:30:53-654 R3 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.1.1).
22:30:53-654 R3 Ethernet Packet	Link	Sending packet from interface B5:74:24:66:B4:A2
22:30:53-654 R2 Ethernet Packet	Link	Recieved and accepted packet at interface 6F:A9:87:34:99:47
22:30:53-654 R2 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-654 R2 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:30:53-654 R2 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.100.1).
22:30:53-654 R2 Ethernet Packet	Link	Sending packet from interface 68:A1:7A:33:82:9B

22:30:53-654 R1 Ethernet Packet	Link	Recieved and accepted packet at interface
C0:3A:B0:3D:9B:91	N 1	D . 10. 1 . 1 . 1 . 1 . 1 . 1
22:30:53-654 R1 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-654 R1 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.	37	F II
22:30:53-654 R1 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.0.1).
22:30:53-654 R1 Ethernet Packet	Link	Sending packet from interface 41:48:82:26:C1:24
22:30:53-654 pc2Ethernet Packet	Link	Recieved and dropped packet at interface 54:C2:BA:1B:84:68
22:30:53-654 pc1Ethernet Packet	Link	Recieved and accepted packet at interface 27:8B:67:76:14:8D
22:30:53-654 pc1ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-654 pc1ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:30:53-654 pc1Echo Reply Packet	Network	Created Echo Reply packet to 172.168.8.2
22:30:53-654 pc1ICMP_packet	Network	Sending packet from ProtocolStack (to 172.168.0.11).
22:30:53-654 pc1Ethernet Packet	Link	Sending packet from interface 27:8B:67:76:14:8D
22:30:53-654 pc2Ethernet Packet	Link	Recieved and dropped packet at interface 54:C2:BA:1B:84:68
22:30:53-654 R1 Ethernet Packet	Link	Recieved and accepted packet at interface 41:48:82:26:C1:24
22:30:53-654 R1 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-654 R1 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:30:53-654 R1 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.100.2).
22:30:53-654 R1 Ethernet Packet	Link	Sending packet from interface C0:3A:B0:3D:9B:91
22:30:53-654 R2 Ethernet Packet	Link	Recieved and accepted packet at interface 68:A1:7A:33:82:9B
22:30:53-654 R2 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-654 R2 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:30:53-654 R2 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.1.2).
22:30:53-654 R2 Ethernet Packet	Link	Sending packet from interface 6F:A9:87:34:99:47
22:30:53-654 R3 Ethernet Packet	Link	Recieved and accepted packet at interface B5:74:24:66:B4:A2
22:30:53-654 R3 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-654 R3 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:30:53-654 R3 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.2.1).
22:30:53-654 R3 Ethernet Packet	Link	Sending packet from interface 11:25:14:C2:C5:C2
22:30:53-654 R8 Ethernet Packet	Link	Recieved and accepted packet at interface 2B:55:76:64:49:27
22:30:53-654 R8 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-654 R8 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:30:53-654 R8 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.3.2).
22:30:53-654 R8 Ethernet Packet	Link	Sending packet from interface 8C:8B:6A:34:60:98
22:30:53-654 R7 Ethernet Packet	Link	Recieved and accepted packet at interface 4D:87:56:25:4A:9A
22:30:53-654 R7 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-654 R7 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		-
U 1		

22:20:52 654 D7 ICMD pooket	Network	Enguarding peaket from Protocol Stock (to 172 169 4.2)
22:30:53-654 R7 ICMP_packet 22:30:53-654 R7 Ethernet Packet		Forwarding packet from ProtocolStack(to 172.168.4.2). Sending packet from interface 20:29:BE:3E:6C:25
22:30:53-654 R6 Ethernet Packet	Link Link	
	LIIIK	Recieved and accepted packet at interface
4C:AC:BC:90:91:3C	NT.41	Description of the state of the
22:30:53-654 R6 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-654 R6 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
22:30:53-654 R6 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.5.2).
22:30:53-654 R6 Ethernet Packet	Link	Sending packet from interface 20:58:78:27:9D:4B
22:30:53-654 R5 Ethernet Packet	Link	Recieved and accepted packet at interface 60:62:62:57:14:8C
22:30:53-654 R5 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-654 R5 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:30:53-654 R5 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.6.2).
22:30:53-654 R5 Ethernet Packet	Link	Sending packet from interface BD:7E:2C:5A:7B:64
22:30:53-654 R4 Ethernet Packet	Link	Recieved and accepted packet at interface AF:92:52:28:79:A4
22:30:53-654 R4 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-654 R4 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:30:53-654 R4 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.7.2).
22:30:53-654 R4 Ethernet Packet	Link	Sending packet from interface 8E:25:8F:2C:24:5B
22:30:53-654 R9 Ethernet Packet	Link	Recieved and accepted packet at interface
7A:6C:BC:95:C1:3B		
22:30:53-654 R9 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-654 R9 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:30:53-654 R9 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.8.2).
22:30:53-654 R9 Ethernet Packet	Link	Sending packet from interface 3F:88:58:8B:27:99
22:30:53-654 pc3Ethernet Packet	Link	Recieved and accepted packet at interface C2:16:84:7F:9B:80
22:30:53-654 pc3ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:30:53-654 pc3ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:30:53-654 pc3 Echo Reply Pac	eket Netw	ork Echo reply packet received from 172.168.0.1
Выполнен Есһо-запрос	с К2 на К	3.
Вывод программы:		
22:31:27-422 pc2Echo Request Packe	et Network	Created Echo Request packet to 172.168.8.2
22:31:27-422 pc2ARP Discovery Pac		
for IP 172.168.0.11		
22:31:27-422 pc2ARP_packet	Network	Sending broadcast packet from ProtocolStack.
22:31:27-422 pc2Ethernet Packet	Link	Sending packet from interface 54:C2:BA:1B:84:68
22:31:27-422 pc1Ethernet Packet	Link	Recieved and accepted packet at interface 27:8B:67:76:14:8D
22:31:27-422 pc1ARP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-422 R1 Ethernet Packet	Link	Recieved and accepted packet at interface 41:48:82:26:C1:24
22.51.27 722 KI Eulernet i acket	Link	Reciered and accepted packet at interface 71.70.02.20.C1.24

22:31:27-422 R1 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-422 R1 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-422 R1 ARP Response Pack	ket DataI	cink Created ARP Response packet to 172.168.0.2
22:31:27-422 R1 ARP_packet	Network	Sending packet from ProtocolStack (to 172.168.0.2).
22:31:27-422 R1 Ethernet Packet	Link	Sending packet from interface 41:48:82:26:C1:24
22:31:27-422 pc2Ethernet Packet	Link	Recieved and accepted packet at interface
54:C2:BA:1B:84:68		
22:31:27-422 pc2ARP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-422 pc2ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-422 pc1Ethernet Packet	Link	Recieved and dropped packet at interface 27:8B:67:76:14:8D
22:31:27-422 pc2ICMP_packet	Network	Sending packet from ProtocolStack (to 172.168.0.11).
22:31:27-422 pc2Ethernet Packet	Link	Sending packet from interface 54:C2:BA:1B:84:68
22:31:27-422 pc1Ethernet Packet	Link	Recieved and dropped packet at interface 27:8B:67:76:14:8D
22:31:27-422 R1 Ethernet Packet	Link	Recieved and accepted packet at interface 41:48:82:26:C1:24
22:31:27-422 R1 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-422 R1 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:27-422 R1 ARP Discovery Pac	ket DataI	cink Created ARP discovery packet to source MAC address
for IP 172.168.100.2		
22:31:27-422 R1 ARP_packet	Network	Sending broadcast packet from ProtocolStack.
22:31:27-422 R1 Ethernet Packet	Link	Sending packet from interface C0:3A:B0:3D:9B:91
22:31:27-422 R2 Ethernet Packet	Link	Recieved and accepted packet at interface 68:A1:7A:33:82:9B
22:31:27-422 R2 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-422 R2 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-422 R2 ARP Response Pack	tet DataI	Link Created ARP Response packet to 172.168.100.1
22:31:27-422 R2 ARP_packet	Network	Sending packet from ProtocolStack (to 172.168.100.1).
22:31:27-422 R2 Ethernet Packet	Link	Sending packet from interface 68:A1:7A:33:82:9B
22:31:27-422 R1 Ethernet Packet	Link	Recieved and accepted packet at interface
C0:3A:B0:3D:9B:91		
22:31:27-422 R1 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-422 R1 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-422 R1 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.100.2).
22:31:27-422 R1 Ethernet Packet	Link	Sending packet from interface C0:3A:B0:3D:9B:91
22:31:27-422 R2 Ethernet Packet	Link	Recieved and accepted packet at interface 68:A1:7A:33:82:9B
22:31:27-422 R2 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-422 R2 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:27-422 R2 ARP Discovery Pac	ket DataI	Link Created ARP discovery packet to source MAC address
for IP 172.168.1.2		
22:31:27-422 R2 ARP_packet	Network	Sending broadcast packet from ProtocolStack.
22:31:27-422 R2 Ethernet Packet	Link	Sending packet from interface 6F:A9:87:34:99:47
22:31:27-422 R3 Ethernet Packet	Link	Recieved and accepted packet at interface B5:74:24:66:B4:A2
22:31:27-422 R3 ARP_packet	Network	ProtocolStack received packet from local Interface.

22	:31:27-422	R3 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22	:31:27-422	R3 ARP Response Packet	et DataL	cink Created ARP Response packet to 172.168.1.1
22	:31:27-422	R3 ARP_packet	Network	Sending packet from ProtocolStack (to 172.168.1.1).
22	:31:27-422	R3 Ethernet Packet	Link	Sending packet from interface B5:74:24:66:B4:A2
22	:31:27-422	R2 Ethernet Packet	Link	Recieved and accepted packet at interface 6F:A9:87:34:99:47
22	:31:27-422	R2 ARP_packet	Network	ProtocolStack received packet from local Interface.
22	:31:27-422	R2 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22	:31:27-422	R2 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.1.2).
22	:31:27-422	R2 Ethernet Packet	Link	Sending packet from interface 6F:A9:87:34:99:47
22	:31:27-422	R3 Ethernet Packet	Link	Recieved and accepted packet at interface B5:74:24:66:B4:A2
22	:31:27-422	R3 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22	:31:27-422	R3 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwar	rding packe	t.		
22	:31:27-422	R3 ARP Discovery Pack	tet DataL	ink Created ARP discovery packet to source MAC address
for IP	172.168.2.1	I		
22	:31:27-422	R3 ARP_packet	Network	Sending broadcast packet from ProtocolStack.
22	:31:27-422	R3 Ethernet Packet	Link	Sending packet from interface 11:25:14:C2:C5:C2
22	:31:27-422	R8 Ethernet Packet	Link	Recieved and accepted packet at interface 2B:55:76:64:49:27
22	:31:27-422	R8 ARP_packet	Network	ProtocolStack received packet from local Interface.
22	:31:27-422	R8 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22	:31:27-422	R8 ARP Response Packet	et DataL	cink Created ARP Response packet to 172.168.2.2
22	:31:27-422	R8 ARP_packet	Network	Sending packet from ProtocolStack (to 172.168.2.2).
22	:31:27-422	R8 Ethernet Packet	Link	Sending packet from interface 2B:55:76:64:49:27
22	:31:27-422	R3 Ethernet Packet	Link	Recieved and accepted packet at interface 11:25:14:C2:C5:C2
22	:31:27-422	R3 ARP_packet	Network	ProtocolStack received packet from local Interface.
22	:31:27-422	R3 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22	:31:27-422	R3 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.2.1).
22	:31:27-422	R3 Ethernet Packet	Link	Sending packet from interface 11:25:14:C2:C5:C2
22	:31:27-422	R8 Ethernet Packet	Link	Recieved and accepted packet at interface 2B:55:76:64:49:27
22	:31:27-422	R8 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22	:31:27-422	R8 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwar	rding packe	t.		
22	:31:27-422	R8 ARP Discovery Pack	tet DataL	cink Created ARP discovery packet to source MAC address
for IP	172.168.3.2	2		
22	:31:27-422	R8 ARP_packet	Network	Sending broadcast packet from ProtocolStack.
22	:31:27-422	R8 Ethernet Packet	Link	Sending packet from interface 8C:8B:6A:34:60:98
22	:31:27-422	R7 Ethernet Packet	Link	Recieved and accepted packet at interface 4D:87:56:25:4A:9A
22	:31:27-422	R7 ARP_packet	Network	ProtocolStack received packet from local Interface.
22	:31:27-422	R7 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22	:31:27-422	R7 ARP Response Packet	et DataL	cink Created ARP Response packet to 172.168.3.1
22	:31:27-422	R7 ARP_packet	Network	Sending packet from ProtocolStack (to 172.168.3.1).
22	:31:27-422	R7 Ethernet Packet	Link	Sending packet from interface 4D:87:56:25:4A:9A
22	:31:27-422	R8 Ethernet Packet	Link	Recieved and accepted packet at interface 8C:8B:6A:34:60:98
				10

22:31:27-422 R8 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-422 R8 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-422 R8 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.3.2).
22:31:27-422 R8 Ethernet Packet	Link	Sending packet from interface 8C:8B:6A:34:60:98
22:31:27-422 R7 Ethernet Packet	Link	Recieved and accepted packet at interface 4D:87:56:25:4A:9A
22:31:27-422 R7 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-422 R7 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:27-422 R7 ARP Discovery Pac	ket DataL	ink Created ARP discovery packet to source MAC address
for IP 172.168.4.2		
22:31:27-422 R7 ARP_packet	Network	Sending broadcast packet from ProtocolStack.
22:31:27-422 R7 Ethernet Packet	Link	Sending packet from interface 20:29:BE:3E:6C:25
22:31:27-422 R6 Ethernet Packet	Link	Recieved and accepted packet at interface
4C:AC:BC:90:91:3C		
22:31:27-422 R6 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-422 R6 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-422 R6 ARP Response Pack	tet DataL	cink Created ARP Response packet to 172.168.4.1
22:31:27-422 R6 ARP_packet	Network	Sending packet from ProtocolStack (to 172.168.4.1).
22:31:27-422 R6 Ethernet Packet	Link	Sending packet from interface 4C:AC:BC:90:91:3C
22:31:27-422 R7 Ethernet Packet	Link	Recieved and accepted packet at interface 20:29:BE:3E:6C:25
22:31:27-422 R7 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-422 R7 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-422 R7 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.4.2).
22:31:27-422 R7 Ethernet Packet	Link	Sending packet from interface 20:29:BE:3E:6C:25
22:31:27-422 R6 Ethernet Packet	Link	Recieved and accepted packet at interface
4C:AC:BC:90:91:3C		
22:31:27-422 R6 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-422 R6 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:27-422 R6 ARP Discovery Pac	ket DataL	ink Created ARP discovery packet to source MAC address
for IP 172.168.5.2		
22:31:27-422 R6 ARP_packet	Network	Sending broadcast packet from ProtocolStack.
22:31:27-422 R6 Ethernet Packet	Link	Sending packet from interface 20:58:78:27:9D:4B
22:31:27-422 R5 Ethernet Packet	Link	Recieved and accepted packet at interface 60:62:62:57:14:8C
22:31:27-422 R5 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-422 R5 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-422 R5 ARP Response Pack	tet DataL	cink Created ARP Response packet to 172.168.5.1
22:31:27-422 R5 ARP_packet	Network	Sending packet from ProtocolStack (to 172.168.5.1).
22:31:27-422 R5 Ethernet Packet	Link	Sending packet from interface 60:62:62:57:14:8C
22:31:27-422 R6 Ethernet Packet	Link	Recieved and accepted packet at interface 20:58:78:27:9D:4B
22:31:27-422 R6 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-422 R6 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-422 R6 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.5.2).
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22:31:27-422 R6 Ethernet Packet	Link	Sending packet from interface 20:58:78:27:9D:4B
22:31:27-422 R5 Ethernet Packet	Link	Recieved and accepted packet at interface 60:62:62:57:14:8C
22:31:27-422 R5 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-430 R5 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:27-430 R5 ARP Discovery Pack	ket DataL	cink Created ARP discovery packet to source MAC address
for IP 172.168.6.2		
22:31:27-430 R5 ARP_packet	Network	Sending broadcast packet from ProtocolStack.
22:31:27-430 R5 Ethernet Packet	Link	Sending packet from interface BD:7E:2C:5A:7B:64
22:31:27-430 R4 Ethernet Packet	Link	Recieved and accepted packet at interface AF:92:52:28:79:A4
22:31:27-430 R4 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-430 R4 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-431 R4 ARP Response Pack	et DataL	cink Created ARP Response packet to 172.168.6.1
22:31:27-431 R4 ARP_packet	Network	Sending packet from ProtocolStack (to 172.168.6.1).
22:31:27-431 R4 Ethernet Packet	Link	Sending packet from interface AF:92:52:28:79:A4
22:31:27-431 R5 Ethernet Packet	Link	Recieved and accepted packet at interface
BD:7E:2C:5A:7B:64		
22:31:27-431 R5 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-431 R5 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-431 R5 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.6.2).
22:31:27-431 R5 Ethernet Packet	Link	Sending packet from interface BD:7E:2C:5A:7B:64
22:31:27-431 R4 Ethernet Packet	Link	Recieved and accepted packet at interface AF:92:52:28:79:A4
22:31:27-431 R4 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-431 R4 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:27-431 R4 ARP Discovery Pack	ket DataL	ink Created ARP discovery packet to source MAC address
for IP 172.168.7.2		
22:31:27-431 R4 ARP_packet	Network	Sending broadcast packet from ProtocolStack.
22:31:27-431 R4 Ethernet Packet	Link	Sending packet from interface 8E:25:8F:2C:24:5B
22:31:27-431 R9 Ethernet Packet	Link	Recieved and accepted packet at interface
7A:6C:BC:95:C1:3B		
22:31:27-432 R9 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-432 R9 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-432 R9 ARP Response Pack	et DataL	cink Created ARP Response packet to 172.168.7.1
22:31:27-432 R9 ARP_packet	Network	Sending packet from ProtocolStack (to 172.168.7.1).
22:31:27-432 R9 Ethernet Packet	Link	Sending packet from interface 7A:6C:BC:95:C1:3B
22:31:27-432 R4 Ethernet Packet	Link	Recieved and accepted packet at interface 8E:25:8F:2C:24:5B
22:31:27-432 R4 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-432 R4 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-432 R4 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.7.2).
22:31:27-432 R4 Ethernet Packet	Link	Sending packet from interface 8E:25:8F:2C:24:5B
22:31:27-432 R9 Ethernet Packet	Link	Recieved and accepted packet at interface
7A:6C:BC:95:C1:3B		
		• 0

22:31:27-432 R9 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-432 R9 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:27-432 R9 ARP Discovery Pack	tet DataL	ink Created ARP discovery packet to source MAC address
for IP 172.168.8.2		
22:31:27-432 R9 ARP_packet	Network	Sending broadcast packet from ProtocolStack.
22:31:27-432 R9 Ethernet Packet	Link	Sending packet from interface 3F:88:58:8B:27:99
22:31:27-432 pc3Ethernet Packet	Link	Recieved and accepted packet at interface C2:16:84:7F:9B:80
22:31:27-432 pc3ARP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-432 pc3ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-432 pc3ARP Response Packet	et DataL	ink Created ARP Response packet to 172.168.8.1
22:31:27-432 pc3ARP_packet	Network	Sending packet from ProtocolStack (to 172.168.8.1).
22:31:27-432 pc3Ethernet Packet	Link	Sending packet from interface C2:16:84:7F:9B:80
22:31:27-432 R9 Ethernet Packet	Link	Recieved and accepted packet at interface 3F:88:58:8B:27:99
22:31:27-432 R9 ARP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-432 R9 ARP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-432 R9 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.8.2).
22:31:27-432 R9 Ethernet Packet	Link	Sending packet from interface 3F:88:58:8B:27:99
22:31:27-432 pc3Ethernet Packet	Link	Recieved and accepted packet at interface C2:16:84:7F:9B:80
22:31:27-432 pc3ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-432 pc3ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-432 pc3Echo Reply Packet	Network	Created Echo Reply packet to 172.168.0.2
22:31:27-432 pc3ICMP_packet	Network	Sending packet from ProtocolStack (to 172.168.8.1).
22:31:27-432 pc3Ethernet Packet	Link	Sending packet from interface C2:16:84:7F:9B:80
22:31:27-432 R9 Ethernet Packet	Link	Recieved and accepted packet at interface 3F:88:58:8B:27:99
22:31:27-432 R9 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-432 R9 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:27-432 R9 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.7.1).
22:31:27-432 R9 Ethernet Packet	Link	Sending packet from interface 7A:6C:BC:95:C1:3B
22:31:27-432 R4 Ethernet Packet	Link	Recieved and accepted packet at interface 8E:25:8F:2C:24:5B
22:31:27-432 R4 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-432 R4 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:27-432 R4 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.6.1).
22:31:27-432 R4 Ethernet Packet	Link	Sending packet from interface AF:92:52:28:79:A4
22:31:27-432 R5 Ethernet Packet	Link	Recieved and accepted packet at interface
BD:7E:2C:5A:7B:64		
22:31:27-432 R5 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-432 R5 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:27-432 R5 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.5.1).
22:31:27-432 R5 Ethernet Packet	Link	Sending packet from interface 60:62:62:57:14:8C

22:31:27-432 R6 Ethernet Packet	Link	Recieved and accepted packet at interface 20:58:78:27:9D:4B
22:31:27-432 R6 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-432 R6 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:27-432 R6 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.4.1).
22:31:27-432 R6 Ethernet Packet	Link	Sending packet from interface 4C:AC:BC:90:91:3C
22:31:27-432 R7 Ethernet Packet	Link	Recieved and accepted packet at interface 20:29:BE:3E:6C:25
22:31:27-432 R7 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-432 R7 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:27-432 R7 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.3.1).
22:31:27-432 R7 Ethernet Packet	Link	Sending packet from interface 4D:87:56:25:4A:9A
22:31:27-432 R8 Ethernet Packet	Link	Recieved and accepted packet at interface 8C:8B:6A:34:60:98
22:31:27-432 R8 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-432 R8 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:27-432 R8 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.2.2).
22:31:27-432 R8 Ethernet Packet	Link	Sending packet from interface 2B:55:76:64:49:27
22:31:27-432 R3 Ethernet Packet	Link	Recieved and accepted packet at interface 11:25:14:C2:C5:C2
22:31:27-432 R3 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-432 R3 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:27-432 R3 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.1.1).
22:31:27-432 R3 Ethernet Packet	Link	Sending packet from interface B5:74:24:66:B4:A2
22:31:27-432 R2 Ethernet Packet	Link	Recieved and accepted packet at interface 6F:A9:87:34:99:47
22:31:27-432 R2 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-432 R2 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:27-432 R2 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.100.1).
22:31:27-432 R2 Ethernet Packet	Link	Sending packet from interface 68:A1:7A:33:82:9B
22:31:27-432 R1 Ethernet Packet	Link	Recieved and accepted packet at interface
C0:3A:B0:3D:9B:91		
22:31:27-432 R1 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-432 R1 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:27-432 R1 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.0.2).
22:31:27-432 R1 Ethernet Packet	Link	Sending packet from interface 41:48:82:26:C1:24
22:31:27-432 pc2Ethernet Packet	Link	Recieved and accepted packet at interface
54:C2:BA:1B:84:68		
22:31:27-432 pc2ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:27-432 pc2ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:27-432 pc2		• • •
22:31:27-432 pc1Ethernet Packet	Link	Recieved and dropped packet at interface 27:8B:67:76:14:8D

Выполнен Есһо-запрос с К3 на К2.

22:31:56-107 pc3Echo Request Pa	cket Network	Created Echo Request packet to 172.168.0.2
22:31:56-107 pc3ICMP_packet	Network	Sending packet from ProtocolStack (to 172.168.8.1).
22:31:56-107 pc3Ethernet Packet	Link	Sending packet from interface C2:16:84:7F:9B:80
22:31:56-107 R9 Ethernet Packet	Link	Recieved and accepted packet at interface 3F:88:58:8B:27:99
22:31:56-107 R9 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:56-107 R9 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:56-107 R9 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.7.1).
22:31:56-107 R9 Ethernet Packet	Link	Sending packet from interface 7A:6C:BC:95:C1:3B
22:31:56-107 R4 Ethernet Packet	Link	Recieved and accepted packet at interface 8E:25:8F:2C:24:5B
22:31:56-107 R4 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:56-107 R4 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:56-107 R4 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.6.1).
22:31:56-107 R4 Ethernet Packet	Link	Sending packet from interface AF:92:52:28:79:A4
22:31:56-107 R5 Ethernet Packet	Link	Recieved and accepted packet at interface
BD:7E:2C:5A:7B:64		
22:31:56-107 R5 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:56-107 R5 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:56-107 R5 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.5.1).
22:31:56-107 R5 Ethernet Packet	Link	Sending packet from interface 60:62:62:57:14:8C
22:31:56-107 R6 Ethernet Packet	Link	Recieved and accepted packet at interface 20:58:78:27:9D:4B
22:31:56-107 R6 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:56-107 R6 ICMP_packet 22:31:56-107 R6 ICMP_packet	Network Network	ProtocolStack received packet from local Interface. Packet Received: Network Layer Device is Routable
		-
22:31:56-107 R6 ICMP_packet		-
22:31:56-107 R6 ICMP_packet forwarding packet.	Network	Packet Received: Network Layer Device is Routable
22:31:56-107 R6 ICMP_packet forwarding packet. 22:31:56-107 R6 ICMP_packet	Network Network	Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.4.1).
22:31:56-107 R6 ICMP_packet forwarding packet. 22:31:56-107 R6 ICMP_packet 22:31:56-107 R6 Ethernet Packet	Network Network Link	Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.4.1). Sending packet from interface 4C:AC:BC:90:91:3C
22:31:56-107 R6 ICMP_packet forwarding packet. 22:31:56-107 R6 ICMP_packet 22:31:56-107 R6 Ethernet Packet 22:31:56-107 R7 Ethernet Packet	Network Network Link Link	Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.4.1). Sending packet from interface 4C:AC:BC:90:91:3C Recieved and accepted packet at interface 20:29:BE:3E:6C:25
22:31:56-107 R6 ICMP_packet forwarding packet. 22:31:56-107 R6 ICMP_packet 22:31:56-107 R6 Ethernet Packet 22:31:56-107 R7 Ethernet Packet 22:31:56-107 R7 ICMP_packet	Network Network Link Link Network	Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.4.1). Sending packet from interface 4C:AC:BC:90:91:3C Recieved and accepted packet at interface 20:29:BE:3E:6C:25 ProtocolStack received packet from local Interface.
22:31:56-107 R6 ICMP_packet forwarding packet. 22:31:56-107 R6 ICMP_packet 22:31:56-107 R6 Ethernet Packet 22:31:56-107 R7 Ethernet Packet 22:31:56-107 R7 ICMP_packet 22:31:56-107 R7 ICMP_packet	Network Network Link Link Network	Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.4.1). Sending packet from interface 4C:AC:BC:90:91:3C Recieved and accepted packet at interface 20:29:BE:3E:6C:25 ProtocolStack received packet from local Interface.
22:31:56-107 R6 ICMP_packet forwarding packet. 22:31:56-107 R6 ICMP_packet 22:31:56-107 R6 Ethernet Packet 22:31:56-107 R7 Ethernet Packet 22:31:56-107 R7 ICMP_packet 22:31:56-107 R7 ICMP_packet forwarding packet.	Network Network Link Link Network Network	Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.4.1). Sending packet from interface 4C:AC:BC:90:91:3C Recieved and accepted packet at interface 20:29:BE:3E:6C:25 ProtocolStack received packet from local Interface. Packet Received: Network Layer Device is Routable
22:31:56-107 R6 ICMP_packet forwarding packet. 22:31:56-107 R6 ICMP_packet 22:31:56-107 R6 Ethernet Packet 22:31:56-107 R7 Ethernet Packet 22:31:56-107 R7 ICMP_packet 22:31:56-107 R7 ICMP_packet forwarding packet. 22:31:56-107 R7 ICMP_packet	Network Network Link Link Network Network	Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.4.1). Sending packet from interface 4C:AC:BC:90:91:3C Recieved and accepted packet at interface 20:29:BE:3E:6C:25 ProtocolStack received packet from local Interface. Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.3.1).
22:31:56-107 R6 ICMP_packet forwarding packet. 22:31:56-107 R6 ICMP_packet 22:31:56-107 R6 Ethernet Packet 22:31:56-107 R7 Ethernet Packet 22:31:56-107 R7 ICMP_packet 22:31:56-107 R7 ICMP_packet forwarding packet. 22:31:56-107 R7 ICMP_packet 22:31:56-107 R7 ICMP_packet	Network Network Link Network Network Network Link	Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.4.1). Sending packet from interface 4C:AC:BC:90:91:3C Recieved and accepted packet at interface 20:29:BE:3E:6C:25 ProtocolStack received packet from local Interface. Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.3.1). Sending packet from interface 4D:87:56:25:4A:9A
22:31:56-107 R6 ICMP_packet forwarding packet. 22:31:56-107 R6 ICMP_packet 22:31:56-107 R6 Ethernet Packet 22:31:56-107 R7 Ethernet Packet 22:31:56-107 R7 ICMP_packet 22:31:56-107 R7 ICMP_packet forwarding packet. 22:31:56-107 R7 ICMP_packet 22:31:56-107 R7 ICMP_packet 22:31:56-107 R7 Ethernet Packet 22:31:56-107 R8 Ethernet Packet 22:31:56-107 R8 Ethernet Packet	Network Network Link Network Network Network Link Link Link	Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.4.1). Sending packet from interface 4C:AC:BC:90:91:3C Recieved and accepted packet at interface 20:29:BE:3E:6C:25 ProtocolStack received packet from local Interface. Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.3.1). Sending packet from interface 4D:87:56:25:4A:9A Recieved and accepted packet at interface 8C:8B:6A:34:60:98
22:31:56-107 R6 ICMP_packet forwarding packet. 22:31:56-107 R6 ICMP_packet 22:31:56-107 R6 Ethernet Packet 22:31:56-107 R7 Ethernet Packet 22:31:56-107 R7 ICMP_packet 22:31:56-107 R7 ICMP_packet forwarding packet. 22:31:56-107 R7 ICMP_packet 22:31:56-107 R7 Ethernet Packet 22:31:56-107 R8 Ethernet Packet 22:31:56-107 R8 Ethernet Packet 22:31:56-107 R8 ICMP_packet	Network Network Link Network Network Network Link Link Link Network	Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.4.1). Sending packet from interface 4C:AC:BC:90:91:3C Recieved and accepted packet at interface 20:29:BE:3E:6C:25 ProtocolStack received packet from local Interface. Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.3.1). Sending packet from interface 4D:87:56:25:4A:9A Recieved and accepted packet at interface 8C:8B:6A:34:60:98 ProtocolStack received packet from local Interface.
22:31:56-107 R6 ICMP_packet forwarding packet. 22:31:56-107 R6 ICMP_packet 22:31:56-107 R6 Ethernet Packet 22:31:56-107 R7 Ethernet Packet 22:31:56-107 R7 ICMP_packet 22:31:56-107 R7 ICMP_packet 60:20:31:56-107 R7 ICMP_packet 22:31:56-107 R7 ICMP_packet 22:31:56-107 R7 Ethernet Packet 22:31:56-107 R8 Ethernet Packet 22:31:56-107 R8 ICMP_packet 22:31:56-107 R8 ICMP_packet 22:31:56-107 R8 ICMP_packet 22:31:56-107 R8 ICMP_packet	Network Network Link Network Network Network Link Link Link Network	Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.4.1). Sending packet from interface 4C:AC:BC:90:91:3C Recieved and accepted packet at interface 20:29:BE:3E:6C:25 ProtocolStack received packet from local Interface. Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.3.1). Sending packet from interface 4D:87:56:25:4A:9A Recieved and accepted packet at interface 8C:8B:6A:34:60:98 ProtocolStack received packet from local Interface.
22:31:56-107 R6 ICMP_packet forwarding packet. 22:31:56-107 R6 ICMP_packet 22:31:56-107 R6 Ethernet Packet 22:31:56-107 R7 Ethernet Packet 22:31:56-107 R7 ICMP_packet 22:31:56-107 R7 ICMP_packet forwarding packet. 22:31:56-107 R7 ICMP_packet 22:31:56-107 R7 ICMP_packet 22:31:56-107 R7 Ethernet Packet 22:31:56-107 R8 Ethernet Packet 22:31:56-107 R8 ICMP_packet 22:31:56-107 R8 ICMP_packet forwarding packet.	Network Network Link Network Network Link Link Link Link Network	Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.4.1). Sending packet from interface 4C:AC:BC:90:91:3C Recieved and accepted packet at interface 20:29:BE:3E:6C:25 ProtocolStack received packet from local Interface. Packet Received: Network Layer Device is Routable Forwarding packet from ProtocolStack(to 172.168.3.1). Sending packet from interface 4D:87:56:25:4A:9A Recieved and accepted packet at interface 8C:8B:6A:34:60:98 ProtocolStack received packet from local Interface. Packet Received: Network Layer Device is Routable

22:31:56-107 R3 Ethernet Packet	Link	Recieved and accepted packet at interface 11:25:14:C2:C5:C2
22:31:56-107 R3 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:56-108 R3 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:56-108 R3 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.1.1).
22:31:56-108 R3 Ethernet Packet	Link	Sending packet from interface B5:74:24:66:B4:A2
22:31:56-108 R2 Ethernet Packet	Link	Recieved and accepted packet at interface 6F:A9:87:34:99:47
22:31:56-108 R2 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:56-108 R2 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:56-108 R2 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.100.1).
22:31:56-108 R2 Ethernet Packet	Link	Sending packet from interface 68:A1:7A:33:82:9B
22:31:56-108 R1 Ethernet Packet	Link	Recieved and accepted packet at interface
C0:3A:B0:3D:9B:91		
22:31:56-108 R1 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:56-108 R1 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:56-108 R1 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.0.2).
22:31:56-108 R1 Ethernet Packet	Link	Sending packet from interface 41:48:82:26:C1:24
22:31:56-108 pc2Ethernet Packet	Link	Recieved and accepted packet at interface
54:C2:BA:1B:84:68		
22:31:56-108 pc2ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:56-108 pc2ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
22:31:56-108 pc2Echo Reply Packet	Network	Created Echo Reply packet to 172.168.8.2
22:31:56-108 pc2ICMP_packet	Network	Sending packet from ProtocolStack (to 172.168.0.11).
22:31:56-108 pc2Ethernet Packet	Link	Sending packet from interface 54:C2:BA:1B:84:68
22:31:56-108 pc1Ethernet Packet	Link	Recieved and dropped packet at interface 27:8B:67:76:14:8D
22:31:56-108 R1 Ethernet Packet	Link	Recieved and accepted packet at interface 41:48:82:26:C1:24
22:31:56-108 R1 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:56-108 R1 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:56-108 R1 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.100.2).
22:31:56-108 R1 Ethernet Packet	Link	Sending packet from interface C0:3A:B0:3D:9B:91
22:31:56-109 R2 Ethernet Packet	Link	Recieved and accepted packet at interface 68:A1:7A:33:82:9B
22:31:56-109 R2 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:56-109 R2 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
22:31:56-109 R2 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.1.2).
22:31:56-109 R2 Ethernet Packet	Link	Sending packet from interface 6F:A9:87:34:99:47
22:31:56-109 R3 Ethernet Packet	Link	Recieved and accepted packet at interface B5:74:24:66:B4:A2
22:31:56-109 R3 ICMP_packet	Network	ProtocolStack received packet from local Interface.
22:31:56-109 R3 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
forwarding packet.		
		2.4

	22:31:56-109 R3 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.2.1).
	22:31:56-109 R3 Ethernet Packet	Link	Sending packet from interface 11:25:14:C2:C5:C2
	22:31:56-109 R8 Ethernet Packet	Link	Recieved and accepted packet at interface 2B:55:76:64:49:27
	22:31:56-109 R8 ICMP_packet	Network	ProtocolStack received packet from local Interface.
	22:31:56-109 R8 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
f	orwarding packet.		
	22:31:56-109 R8 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.3.2).
	22:31:56-109 R8 Ethernet Packet	Link	Sending packet from interface 8C:8B:6A:34:60:98
	22:31:56-109 R7 Ethernet Packet	Link	Recieved and accepted packet at interface 4D:87:56:25:4A:9A
	22:31:56-109 R7 ICMP_packet	Network	ProtocolStack received packet from local Interface.
	22:31:56-109 R7 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
f	orwarding packet.		
	22:31:56-109 R7 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.4.2).
	22:31:56-109 R7 Ethernet Packet	Link	Sending packet from interface 20:29:BE:3E:6C:25
	22:31:56-109 R6 Ethernet Packet	Link	Recieved and accepted packet at interface
4	C:AC:BC:90:91:3C		
	22:31:56-109 R6 ICMP_packet	Network	ProtocolStack received packet from local Interface.
	22:31:56-109 R6 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
f	orwarding packet.		
	22:31:56-109 R6 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.5.2).
	22:31:56-109 R6 Ethernet Packet	Link	Sending packet from interface 20:58:78:27:9D:4B
	22:31:56-109 R5 Ethernet Packet	Link	Recieved and accepted packet at interface 60:62:62:57:14:8C
	22:31:56-109 R5 ICMP_packet	Network	ProtocolStack received packet from local Interface.
	22:31:56-109 R5 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
f	orwarding packet.		
	22:31:56-109 R5 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.6.2).
	22:31:56-109 R5 Ethernet Packet	Link	Sending packet from interface BD:7E:2C:5A:7B:64
	22:31:56-109 R4 Ethernet Packet	Link	Recieved and accepted packet at interface AF:92:52:28:79:A4
	22:31:56-109 R4 ICMP_packet	Network	ProtocolStack received packet from local Interface.
	22:31:56-109 R4 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
f	orwarding packet.		
	22:31:56-109 R4 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.7.2).
	22:31:56-109 R4 Ethernet Packet	Link	Sending packet from interface 8E:25:8F:2C:24:5B
	22:31:56-109 R9 Ethernet Packet	Link	Recieved and accepted packet at interface
7	'A:6C:BC:95:C1:3B		
	22:31:56-109 R9 ICMP_packet	Network	ProtocolStack received packet from local Interface.
	22:31:56-109 R9 ICMP_packet	Network	Packet Received: Network Layer Device is Routable
f	orwarding packet.		
	22:31:56-109 R9 ICMP_packet	Network	Forwarding packet from ProtocolStack(to 172.168.8.2).
	22:31:56-109 R9 Ethernet Packet	Link	Sending packet from interface 3F:88:58:8B:27:99
	22:31:56-109 pc3Ethernet Packet	Link	Recieved and accepted packet at interface C2:16:84:7F:9B:80
	22:31:56-109 pc3ICMP_packet	Network	ProtocolStack received packet from local Interface.
	22:31:56-109 pc3ICMP_packet	Network	Confirmed Packet is for this Network Layer Device.
			0.7

22:31:56-109 pc3 Echo Reply Packet Network Echo reply packet received from 172.168.0.2

22:31:56-109 pc1Ethernet Packet Link Recieved and dropped packet at interface 27:8B:67:76:14:8D

3. Настройка таблицы маршрутизации на узлах К1, К2 и К3 не требуется.

Выводы.

Были изучены и практически освоены основы статической маршрутизации на узлах сетевого уровня в IP-сетях.