



МИНОБРНАУКИ РОССИИ

Федеральное государственное бюджетное образовательное учреждение
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«МИРЭА–Российский технологический университет» РТУ

МИРЭА

Колледж программирования и кибер безопасности

Отчет о выполнении практического задания

По дисциплине «МДК.01.05 Эксплуатация компьютерных сетей»

На тему «настройка Eltex-15R»

Практическое задание № 13

Специальность – 10.05.02 Информационная безопасность автоматизированных
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Работа защищена с оценкой _____

Дата защиты _____

Москва

2025

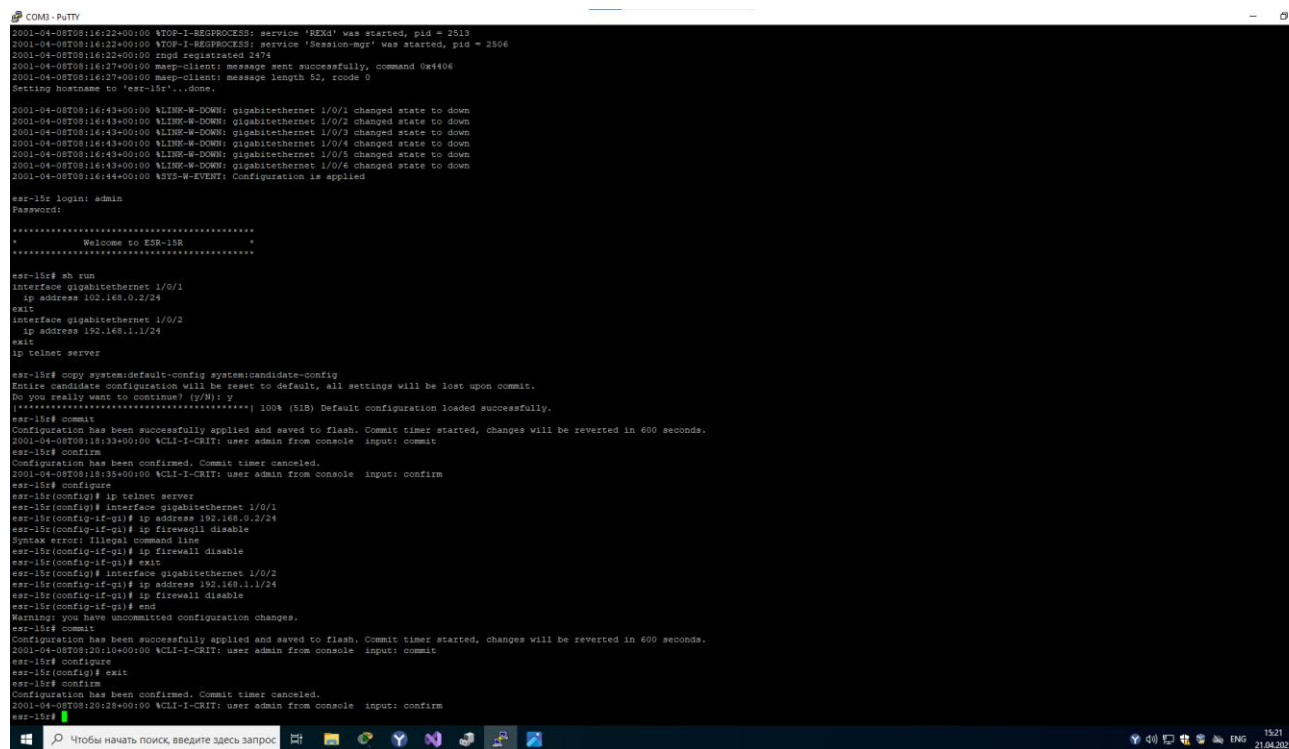
Практическое задание № 8

Тема: настройка Eltex-15R.

Цель: Настройка маршрутизаторов Eltex-15R.

Ход работы:

Настройка протокола RIP для начала выполнения работы, необходимо сбросить все настройки в маршрутизаторах. Для этого применим команду `copy system:default-config system:candidate-config`. После этого перейдём к настройке нашей сети. Перед этим изучим нашу сеть, которая была описанна в практической работе № 12.



```
COM3 - PuTTY
2001-04-08T09:16:22+00:00 VTOP-I-REGPROCESS: service 'REXD' was started, pid = 2513
2001-04-08T09:16:22+00:00 VTOP-I-REGPROCESS: service 'Session-mgr' was started, pid = 2506
2001-04-08T09:16:22+00:00 mgd registered 24%
2001-04-08T09:16:27+00:00 mosp-client: message sent successfully, command 0x406
2001-04-08T09:16:27+00:00 mosp-client: message length 52, rcode 0
Setting hostname to 'esr-15r'...done.
2001-04-08T09:16:43+00:00 VLINK-W-DOWN: gigabitethernet 1/0/1 changed state to down
2001-04-08T09:16:43+00:00 VLINK-W-DOWN: gigabitethernet 1/0/2 changed state to down
2001-04-08T09:16:43+00:00 VLINK-W-DOWN: gigabitethernet 1/0/3 changed state to down
2001-04-08T09:16:43+00:00 VLINK-W-DOWN: gigabitethernet 1/0/4 changed state to down
2001-04-08T09:16:43+00:00 VLINK-W-DOWN: gigabitethernet 1/0/5 changed state to down
2001-04-08T09:16:43+00:00 VLINK-W-DOWN: gigabitethernet 1/0/6 changed state to down
2001-04-08T09:16:44+00:00 VSYS-W-EVENT: Configuration is applied

esr-15r login: admin
Password:
*****
*      Welcome to ESR-15R      *
*****

esr-15r# sh run
interface gigabitethernet 1/0/1
 ip address 192.168.0.2/24
exit
interface gigabitethernet 1/0/2
 ip address 192.168.1.1/24
exit
ip telnet server

esr-15r# copy system:default-config system:candidate-config
Entire candidate configuration will be reset to default, all settings will be lost upon commit.
Do you really want to continue? (y/N): y
[*****] 100% (51B) Default configuration loaded successfully.
esr-15r# commit
Configuration has been successfully applied and saved to flash. Commit timer started, changes will be reverted in 600 seconds.
2001-04-08T09:18:38+00:00 VCLI-I-CRIT: user admin from console input: commit
esr-15r# confirm
Configuration has been confirmed. Commit timer canceled.
2001-04-08T09:18:38+00:00 VCLI-I-CRIT: user admin from console input: confirm
esr-15r# configure
esr-15r(config)# ip telnet server
esr-15r(config)# interface gigabitethernet 1/0/1
esr-15r(config-if-gi)# ip address 192.168.0.2/24
esr-15r(config-if-gi)# ip firewall disable
Syntax error: illegal command line
esr-15r(config-if-gi)# ip firewall disable
esr-15r(config-if-gi)# exit
esr-15r(config)# interface gigabitethernet 1/0/2
esr-15r(config-if-gi)# ip address 192.168.1.1/24
esr-15r(config-if-gi)# ip firewall disable
esr-15r(config-if-gi)# end
Warning: you have uncommitted configuration changes.
esr-15r# commit
Configuration has been successfully applied and saved to flash. Commit timer started, changes will be reverted in 600 seconds.
2001-04-08T09:20:16+00:00 VCLI-I-CRIT: user admin from console input: commit
esr-15r# configure
esr-15r(config)# exit
esr-15r# confirm
Configuration has been confirmed. Commit timer canceled.
2001-04-08T09:20:28+00:00 VCLI-I-CRIT: user admin from console input: confirm
esr-15r#
```

Рис. 1 Настройка маршрутизатора M1

Настраиваем маршрутизатор M1, M2, M3 используя команду `copy system:default-config system:candidate-config`

```
COM3 - PuTTY
2001-04-08T02:14:49+00:00 SYS-W-EVENT: !!! ***** !!!
2001-04-08T02:14:51+00:00 msp-client: message sent successfully, command 0x404
2001-04-08T02:14:51+00:00 msp-client: message length 52, rcode 0
Setting hostname to 'esr-15r'...done.
2001-04-08T02:15:07+00:00 LINK-W-DOWN: bridge 1 changed state to down
2001-04-08T02:15:07+00:00 LINK-W-DOWN: bridge 2 changed state to down
2001-04-08T02:15:07+00:00 LINK-W-UP: bridge 1 changed state to up
2001-04-08T02:15:07+00:00 LINK-W-DOWN: gigabitethernet 1/0/1 changed state to down
2001-04-08T02:15:07+00:00 LINK-W-DOWN: gigabitethernet 1/0/2 changed state to down
2001-04-08T02:15:07+00:00 LINK-W-DOWN: gigabitethernet 1/0/3 changed state to down
2001-04-08T02:15:07+00:00 LINK-W-DOWN: gigabitethernet 1/0/4 changed state to down
2001-04-08T02:15:07+00:00 LINK-W-DOWN: gigabitethernet 1/0/5 changed state to down
2001-04-08T02:15:07+00:00 LINK-W-DOWN: gigabitethernet 1/0/6 changed state to down
2001-04-08T02:15:09+00:00 SYS-W-EVENT: Configuration is applied

esr-15r login: admin
Password:
You are required to change your password immediately!!!

*****
*           Welcome to ESR-15r           *
*****

esr-15r(change-expired-password)# password urodc148
esr-15r(change-expired-password)# commit
Configuration has been successfully applied and saved to flash. Commit timer started, changes will be reverted in 600 seconds.
2001-04-08T02:16:17+00:00 CLI-I-CRIT: user admin from console input: commit
esr-15r(change-expired-password)# confirm
Configuration has been confirmed. Commit timer canceled.
2001-04-08T02:16:20+00:00 CLI-I-CRIT: user admin from console input: confirm
esr-15r# copy system:default-config system:candidate-config
Entire candidate configuration will be reset to default, all settings will be lost upon commit.
Do you really want to continue? (y/N): y
(y/N)***** 100% (51B) Default configuration loaded successfully.
esr-15r# commit
2001-04-08T02:17:56+00:00 SYS-W-EVENT: WARNING!!! 'boot host auto-config' will be disabled after reboot hardware
2001-04-08T02:17:56+00:00 SYS-W-EVENT: WARNING!!! 'boot host auto-update' will be disabled after reboot hardware
2001-04-08T02:18:01+00:00 LINK-W-DOWN: bridge 1 changed state to down
Configuration has been successfully applied and saved to flash. Commit timer started, changes will be reverted in 600 seconds.
2001-04-08T02:18:04+00:00 CLI-I-CRIT: user admin from console input: commit
esr-15r# confirm
Configuration has been confirmed. Commit timer canceled.
2001-04-08T02:18:09+00:00 CLI-I-CRIT: user admin from console input: confirm
esr-15r# configure
esr-15r(config)# ip telnet server
esr-15r(config)# interface gigabitethernet 1/0/1
esr-15r(config-if-gi)# ip address 192.168.1.2/24
esr-15r(config-if-gi)# ip firewall disable
esr-15r(config-if-gi)# exit
esr-15r(config)# interface gigabitethernet 1/0/2
esr-15r(config-if-gi)# ip address 192.168.2.2/24
esr-15r(config-if-gi)# ip firewall disable
esr-15r(config-if-gi)# end
Warning: you have uncommitted configuration changes.
esr-15r# commit
Configuration has been successfully applied and saved to flash. Commit timer started, changes will be reverted in 600 seconds.
2001-04-08T02:20:27+00:00 CLI-I-CRIT: user admin from console input: commit
esr-15r# confirm
Configuration has been confirmed. Commit timer canceled.
2001-04-08T02:20:31+00:00 CLI-I-CRIT: user admin from console input: confirm
esr-15r# /
esr-15r# /

Чобы начать поиск, введите здесь запрос
```

Рис. 2 настройка маршрутизатора М2

Для начала настроим полностью один маршрутизатор, например, М1 для этого потребуются следующие команды, представленные на рис. 3.

```
COM3 - PuTTY
2001-04-08T04:16:03+00:00 LINK-I-UP: bridge 1 changed state to up
2001-04-08T04:16:03+00:00 LINK-W-DOWN: gigabitethernet 1/0/1 changed state to down
2001-04-08T04:16:03+00:00 LINK-W-DOWN: gigabitethernet 1/0/2 changed state to down
2001-04-08T04:16:03+00:00 LINK-W-DOWN: gigabitethernet 1/0/3 changed state to down
2001-04-08T04:16:03+00:00 LINK-W-DOWN: gigabitethernet 1/0/4 changed state to down
2001-04-08T04:16:03+00:00 LINK-W-DOWN: gigabitethernet 1/0/5 changed state to down
2001-04-08T04:16:03+00:00 LINK-W-DOWN: gigabitethernet 1/0/6 changed state to down
2001-04-08T04:16:05+00:00 SYS-W-EVENT: Configuration is applied

esr-15r login: admin
Password:
Login incorrect
esr-15r login: admin
Password:
You are required to change your password immediately!!!

*****
*           Welcome to ESR-15r           *
*****

esr-15r(change-expired-password)# password urodc123
esr-15r(change-expired-password)# commit
Configuration has been successfully applied and saved to flash. Commit timer started, changes will be reverted in 600 seconds.
2001-04-08T04:20:49+00:00 CLI-I-CRIT: user admin from console input: commit
esr-15r(change-expired-password)# confirm
Configuration has been confirmed. Commit timer canceled.
2001-04-08T04:20:51+00:00 CLI-I-CRIT: user admin from console input: confirm
esr-15r# configure
esr-15r(config)# ip telnet server
esr-15r(config)# interface gigabitethernet 1/0/1
esr-15r(config-if-gi)# end
Warning: you have uncommitted configuration changes.
esr-15r# copy system:default-config system:candidate-config
Entire candidate configuration will be reset to default, all settings will be lost upon commit.
Do you really want to continue? (y/N): y
(y/N)***** 100% (51B) Default configuration loaded successfully.
esr-15r# commit
2001-04-08T04:22:40+00:00 SYS-W-EVENT: WARNING!!! 'boot host auto-config' will be disabled after reboot hardware
2001-04-08T04:22:40+00:00 SYS-W-EVENT: WARNING!!! 'boot host auto-update' will be disabled after reboot hardware
2001-04-08T04:22:45+00:00 LINK-W-DOWN: bridge 1 changed state to down
Configuration has been successfully applied and saved to flash. Commit timer started, changes will be reverted in 600 seconds.
2001-04-08T04:22:47+00:00 CLI-I-CRIT: user admin from console input: commit
esr-15r# confirm
Configuration has been confirmed. Commit timer canceled.
2001-04-08T04:22:53+00:00 CLI-I-CRIT: user admin from console input: confirm
esr-15r# configure
esr-15r(config)# ip telnet server
esr-15r(config)# interface gigabitethernet 1/0/1
esr-15r(config-if-gi)# ip address 192.168.2.1/24
esr-15r(config-if-gi)# ip firewall disable
esr-15r(config-if-gi)# exit
esr-15r(config)# interface gigabitethernet 1/0/2
esr-15r(config-if-gi)# ip address 192.168.0.1/24
esr-15r(config-if-gi)# ip firewall disable
esr-15r(config-if-gi)# end
Warning: you have uncommitted configuration changes.
esr-15r# commit
Configuration has been successfully applied and saved to flash. Commit timer started, changes will be reverted in 600 seconds.
2001-04-08T04:23:16+00:00 CLI-I-CRIT: user admin from console input: commit
esr-15r# confirm
Configuration has been confirmed. Commit timer canceled.
2001-04-08T04:23:16+00:00 CLI-I-CRIT: user admin from console input: confirm
esr-15r# /

Чобы начать поиск, введите здесь запрос
```

Рис. 3 настройка маршрутизатора М3

```
COM3 - PuTTY
eas-15r# sh run
interface gigabitethernet 1/0/1
 ip firewall disable
 ip address 192.168.0.2/24
 exit
interface gigabitethernet 1/0/2
 ip firewall disable
 ip address 192.168.1.1/24
 exit
 ip telnet server

eas-15r#
Syntax error: Unknown command
eas-15r# sh run
interface gigabitethernet 1/0/1
 ip firewall disable
 ip address 192.168.1.2/24
 exit
interface gigabitethernet 1/0/2
 ip firewall disable
 ip address 192.168.2.2/24
 exit
 ip telnet server

eas-15r#
Syntax error: Unknown command
eas-15r# sh run
interface gigabitethernet 1/0/1
 ip firewall disable
 ip address 192.168.2.1/24
 exit
interface gigabitethernet 1/0/2
 ip firewall disable
 ip address 192.168.0.1/24
 exit
 ip telnet server

eas-15r#
```

Рис. 4 результат после настройки маршрутизаторов М1, М2, М3

```
COM3 - PuTTY
 ip firewall disable
 ip address 192.168.0.2/24
 exit
interface gigabitethernet 1/0/2
 ip firewall disable
 ip address 192.168.1.1/24
 exit
 ip telnet server

eas-15r#
Syntax error: Unknown command
eas-15r# sh run
interface gigabitethernet 1/0/1
 ip firewall disable
 ip address 192.168.1.2/24
 exit
interface gigabitethernet 1/0/2
 ip firewall disable
 ip address 192.168.2.2/24
 exit
 ip telnet server

eas-15r#
Syntax error: Unknown command
eas-15r# sh run
interface gigabitethernet 1/0/1
 ip firewall disable
 ip address 192.168.2.1/24
 exit
interface gigabitethernet 1/0/2
 ip firewall disable
 ip address 192.168.0.1/24
 exit
 ip telnet server

eas-15r# ping 192.168.0.2
PING 192.168.0.2 (192.168.0.2) 56 bytes of data.
!!!!
--- 192.168.0.2 ping statistics ---
 5 packets transmitted, 5 received, 0% packet loss, time 400ms
rtt min/avg/max/mdev = 0.567/0.732/1.320/0.294 ms
eas-15r# ping 192.168.1.1
connect: Network is unreachable
eas-15r# ping 192.168.2.2
PING 192.168.2.2 (192.168.2.2) 56 bytes of data.
!!!!
--- 192.168.2.2 ping statistics ---
 5 packets transmitted, 5 received, 0% packet loss, time 400ms
rtt min/avg/max/mdev = 0.580/0.740/1.275/0.169 ms
eas-15r# ping 192.168.1.1
PING 192.168.1.1 (192.168.1.1) 56 bytes of data.
!!!!
--- 192.168.1.1 ping statistics ---
 5 packets transmitted, 5 received, 0% packet loss, time 400ms
rtt min/avg/max/mdev = 0.569/0.699/1.159/0.231 ms
eas-15r# ping 192.168.2.1
PING 192.168.2.1 (192.168.2.1) 56 bytes of data.
!!!!
--- 192.168.2.1 ping statistics ---
 5 packets transmitted, 5 received, 0% packet loss, time 400ms
rtt min/avg/max/mdev = 0.572/0.602/0.680/0.050 ms
eas-15r#
```

Рис. 5 проверка потери пакетов

Как видим на рис. 5 демонстрируется результат после ввода команды ping к каждому ip адресу.

```
COM2: PuTTY
est-15r# confirm
Configuration has been confirmed. Commit timer canceled.
2001-04-08T08:44:01+00:00 %CLI-I-CRIT: user admin from console input: confirm
est-15r# sh run
est-15r# configure
est-15r(config)# ip telnet server
est-15r(config)# interface gigabitethernet 1/0/1
est-15r(config-if-gi)# ip address 192.168.0.2/24
est-15r(config-if-gi)# ip firewall disable
est-15r(config-if-gi)# exit
est-15r(config)# interface gigabitethernet 1/0/2
est-15r(config-if-gi)# ip address 192.168.1.1/24
est-15r(config-if-gi)# ip firewall disable
est-15r(config-if-gi)# end
Warning: you have uncommitted configuration changes.
est-15r# commit
Configuration has been successfully applied and saved to flash. Commit timer started, changes will be reverted in 600 seconds.
2001-04-08T08:44:10+00:00 %CLI-I-CRIT: user admin from console input: commit
est-15r# confirm
Configuration has been confirmed. Commit timer canceled.
2001-04-08T08:44:13+00:00 %CLI-I-CRIT: user admin from console input: confirm
est-15r# sh run
interface gigabitethernet 1/0/1
ip firewall disable
ip address 192.168.0.2/24
exit
interface gigabitethernet 1/0/2
ip firewall disable
ip address 192.168.1.1/24
exit
ip telnet server
est-15r# 2001-04-08T08:47:01+00:00 %LINK-I-UP: gigabitethernet 1/0/1 changed state to up, speed 1000M full-duplex

est-15r# configure
est-15r(config)# router rip
Syntax error: Unknown command
est-15r(config)# router rip
est-15r(config-rip)# enable
est-15r(config-rip)# net 192.168.0.0/24
est-15r(config-rip)# net 192.168.1.0/24
est-15r(config-rip)# exit
est-15r(config)# exit
Warning: you have uncommitted configuration changes.
est-15r# commit
Configuration has been successfully applied and saved to flash. Commit timer started, changes will be reverted in 600 seconds.
est-15r# confirm
Configuration has been confirmed. Commit timer canceled.
2001-04-08T08:49:59+00:00 %CLI-I-CRIT: user admin from console input: confirm
est-15r# showiproute
Syntax error: Unknown command
est-15r# show ip route
Codes: C - connected, S - static, R - RIP derived,
        O - OSPF derived, IA - OSPF inter area route,
        E1 - OSPF external type 1 route, E2 - OSPF external type 2 route
        S - BGP derived, D - RIBP derived, K - kernel route, V - VRRP route
        I - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, Ia - IS-IS inter area
        * - FIB route
C      * 192.168.0.0/24      [0/0]          dev g11/0/1      [direct 08:47:01]
C      * 192.168.1.0/24      [0/0]          dev g11/0/2      [direct 08:46:08]
est-15r#
```

Рис. 6 Таблица что протокол RIP добавил в таблицу маршрут

```
COM2: PuTTY
2001-04-08T08:46:13+00:00 %CLI-I-CRIT: user admin from console input: confirm
est-15r# sh run
est-15r# configure
est-15r(config)# ip telnet server
est-15r(config)# interface gigabitethernet 1/0/1
est-15r(config-if-gi)# ip address 192.168.0.2/24
est-15r(config-if-gi)# ip firewall disable
est-15r(config-if-gi)# exit
est-15r(config)# interface gigabitethernet 1/0/2
est-15r(config-if-gi)# ip address 192.168.1.1/24
est-15r(config-if-gi)# ip firewall disable
est-15r(config-if-gi)# end
Warning: you have uncommitted configuration changes.
est-15r# commit
Configuration has been successfully applied and saved to flash. Commit timer started, changes will be reverted in 600 seconds.
2001-04-08T08:49:59+00:00 %CLI-I-CRIT: user admin from console input: commit
est-15r# confirm
Configuration has been confirmed. Commit timer canceled.
2001-04-08T08:49:59+00:00 %CLI-I-CRIT: user admin from console input: confirm
est-15r# showiproute
Syntax error: Unknown command
est-15r# show ip route
Codes: C - connected, S - static, R - RIP derived,
        O - OSPF derived, IA - OSPF inter area route,
        E1 - OSPF external type 1 route, E2 - OSPF external type 2 route
        S - BGP derived, D - RIBP derived, K - kernel route, V - VRRP route
        I - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, Ia - IS-IS inter area
        * - FIB route
C      * 192.168.0.0/24      [0/0]          dev g11/0/1      [direct 08:47:01]
C      * 192.168.1.0/24      [0/0]          dev g11/0/2      [direct 08:46:08]
est-15r# 2001-04-08T08:51:15+00:00 %LINK-M-DOWN: gigabitethernet 1/0/1 changed state to down
2001-04-08T08:51:15+00:00 %LINK-I-UP: gigabitethernet 1/0/1 changed state to up, speed 1000M full-duplex
est-15r# configure
est-15r(config)# router rip
est-15r(config-rip)# enable
est-15r(config-rip)# net 192.168.1.0/24
est-15r(config-rip)# net 192.168.2.0/24
est-15r(config-rip)# end
Warning: you have uncommitted configuration changes.
est-15r# commit
Configuration has been successfully applied and saved to flash. Commit timer started, changes will be reverted in 600 seconds.
2001-04-08T08:58:37+00:00 %CLI-I-CRIT: user admin from console input: commit
est-15r# confirm
Configuration has been confirmed. Commit timer canceled.
2001-04-08T08:58:40+00:00 %CLI-I-CRIT: user admin from console input: confirm
est-15r#
est-15r#
est-15r# configure
est-15r(config)#
```

Рис. 7 Таблица что протокол RIP добавил в таблицу маршрут

```

COM3 - PuTTY
e2r-15r(config-rip)# exit
e2r-15r(config)# exit
Warning: you have uncommitted configuration changes.
e2r-15r# commit
Configuration has been successfully applied and saved to flash. Commit timer started, changes will be reverted in 600 seconds.
2001-04-08T08:49:56+00:00 ACLI-I-CRIT: user admin from console input: commit
e2r-15r# confirm
Configuration has been confirmed. Commit timer canceled.
2001-04-08T08:49:59+00:00 ACLI-I-CRIT: user admin from console input: confirm
e2r-15r# showiproute
Syntax error: Unknown command
e2r-15r# show ip route
Codes: C - connected, S - static, R - RIP derived,
        O - OSPF derived, IA - OSPF inter area route,
        E1 - OSPF external type 1 route, E2 - OSPF external type 2 route
        B - BGP derived, D - DHCP derived, K - kernel route, V - VRRP route
        I - IS-IS, I1 - IS-IS level-1, I2 - IS-IS level-2, Ia - IS-IS inter area
        * - FIB route
C      * 192.168.0.0/24      [0/0]          dev g11/0/1          [direct 08:47:01]
C      * 192.168.1.0/24      [0/0]          dev g11/0/2          [direct 08:46:59]
e2r-15r# 2001-04-08T08:51:11+00:00 %LINK-W-DOWN: GigabitEthernet 1/0/1 changed state to down
2001-04-08T08:51:15+00:00 %LINK-I-UP: GigabitEthernet 1/0/1 changed state to up, speed 1000M full-duplex
e2r-15r# configure
e2r-15r(config)# router rip
e2r-15r(config-rip)# enable
e2r-15r(config-rip)# net 192.168.1.0/24
e2r-15r(config-rip)# net 192.168.2.0/24
e2r-15r(config-rip)# end
Warning: you have uncommitted configuration changes.
e2r-15r# commit
Configuration has been successfully applied and saved to flash. Commit timer started, changes will be reverted in 600 seconds.
2001-04-08T08:53:37+00:00 ACLI-I-CRIT: user admin from console input: commit
e2r-15r# confirm
Configuration has been confirmed. Commit timer canceled.
2001-04-08T08:53:40+00:00 ACLI-I-CRIT: user admin from console input: confirm
e2r-15r#
e2r-15r#
e2r-15r# configure
e2r-15r(config)# router rip
e2r-15r(config-rip)# net 192.168.2.0/24
e2r-15r(config-rip)# net 192.168.0.0/24
e2r-15r(config-rip)# end
Warning: you have uncommitted configuration changes.
e2r-15r# commit
Configuration has been successfully applied and saved to flash. Commit timer started, changes will be reverted in 600 seconds.
2001-04-08T08:55:44+00:00 ACLI-I-CRIT: user admin from console input: commit
e2r-15r# show ip route
Codes: C - connected, S - static, R - RIP derived,
        O - OSPF derived, IA - OSPF inter area route,
        E1 - OSPF external type 1 route, E2 - OSPF external type 2 route
        B - BGP derived, D - DHCP derived, K - kernel route, V - VRRP route
        I - IS-IS, I1 - IS-IS level-1, I2 - IS-IS level-2, Ia - IS-IS inter area
        * - FIB route
C      * 192.168.0.0/24      [0/0]          dev g11/0/2          [direct 08:51:45]
C      * 192.168.2.0/24      [0/0]          dev g11/0/1          [direct 08:05:26]
e2r-15r#

```

Рис. 8 Таблица что протокол RIP добавил в таблицу маршрут

```

COM3 - PuTTY
ip firewall disable
ip address 192.168.1.2/24
exit
interface gigabitethernet 1/0/2
ip firewall disable
ip address 192.168.2.2/24
exit
router rip
network 192.168.1.0/24
network 192.168.2.0/24
enable
exit
ip telnet server
e2r-15r# show ip route
Codes: C - connected, S - static, R - RIP derived,
        O - OSPF derived, IA - OSPF inter area route,
        E1 - OSPF external type 1 route, E2 - OSPF external type 2 route
        B - BGP derived, D - DHCP derived, K - kernel route, V - VRRP route
        I - IS-IS, I1 - IS-IS level-1, I2 - IS-IS level-2, Ia - IS-IS inter area
        * - FIB route
C      * 192.168.1.0/24      [0/0]          dev g11/0/1          [direct 08:19:56]
C      * 192.168.2.0/24      [0/0]          dev g11/0/2          [direct 08:20:15]
e2r-15r#
e2r-15r#
e2r-15r# up xpt
Syntax error: Unknown command
e2r-15r# sh run
interface gigabitethernet 1/0/1
ip firewall disable
ip address 192.168.0.2/24
exit
interface gigabitethernet 1/0/2
ip firewall disable
ip address 192.168.1.1/24
exit
router rip
network 192.168.0.0/24
network 192.168.1.0/24
enable
exit
ip telnet server
e2r-15r# ping 192.168.2.1
PING 192.168.2.1 (192.168.2.1) 56 bytes of data:
.....
--- 192.168.2.1 ping statistics ---
8 packets transmitted, 0 received, 100% packet loss, time 400ms
e2r-15r# ping 192.168.0.1
connect: Network is unreachable
e2r-15r#
Syntax error: Unknown command
e2r-15r#
e2r-15r# ping 192.168.0.2
connect: Network is unreachable
e2r-15r# ping 192.168.1.1
connect: Network is unreachable
e2r-15r#

```

Рис. 9 процесс использование команды пинга после использование

маршрутизаторов М3 с М1 без прямого подключения

На рис. 9 демонстрируется результат после пинга ip порта М3 с М1.



Рис. 10 исходный результат проделанной работы

На рис. 10 демонстрируется вид роутеров после отключения прямого подключения М3 с М1. Как можно видеть, что терминале будет потерянно 0 пакетов что свидетельствует о корректном выполнении практической работы.

Вывод: В результате выполнения практической работы мы не только закрепили знания в маршрутизаторах а также изучили новый протокол RIP.