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1. Разработать шаблон конфигурационного файла маршрутизатора для удобства настройки, включить в него основные изученные команды.

R7\_running-config.txt:

|  |
| --- |
| !  version 12.4  no service timestamps log datetime msec  no service timestamps debug datetime msec  service password-encryption  !  hostname R7  !  !  !  enable secret 5 $1$mERr$4r0fKRKs0xKKX6flW2IL.1  !  !  !  !  !  !  ip cef  no ipv6 cef  !  !  !  username admin privilege 15 secret 5 $1$mERr$spr5mFAFM5SNQgLgapAOT0  username engineer privilege 5 secret 5 $1$mERr$x1cm8uBmmmfUXP.4MQT5l0  username noc secret 5 $1$mERr$spr5mFAFM5SNQgLgapAOT0  username operator privilege 3 secret 5 $1$mERr$PDt9QSdPeiiu.tV.nWGSb.  !  !  !  !  !  !  !  !  no ip domain-lookup  ip domain-name net.bank  !  !  spanning-tree mode pvst  !  !  !  !  !  !  interface FastEthernet0/0  ip address 10.194.7.1 255.255.255.0  duplex auto  speed auto  !  interface FastEthernet0/1  ip address 192.168.100.26 255.255.255.252  duplex auto  speed auto  !  interface FastEthernet1/0  switchport mode access  switchport nonegotiate  !  interface FastEthernet1/1  switchport mode access  switchport nonegotiate  !  interface FastEthernet1/2  switchport mode access  switchport nonegotiate  !  interface FastEthernet1/3  switchport mode access  switchport nonegotiate  !  interface FastEthernet1/4  switchport mode access  switchport nonegotiate  !  interface FastEthernet1/5  switchport mode access  switchport nonegotiate  !  interface FastEthernet1/6  switchport mode access  switchport nonegotiate  !  interface FastEthernet1/7  switchport mode access  switchport nonegotiate  !  interface FastEthernet1/8  switchport mode access  switchport nonegotiate  !  interface FastEthernet1/9  switchport mode access  switchport nonegotiate  !  interface FastEthernet1/10  switchport mode access  switchport nonegotiate  !  interface FastEthernet1/11  switchport mode access  switchport nonegotiate  !  interface FastEthernet1/12  switchport mode access  switchport nonegotiate  !  interface FastEthernet1/13  switchport mode access  switchport nonegotiate  !  interface FastEthernet1/14  switchport mode access  switchport nonegotiate  !  interface FastEthernet1/15  switchport mode access  switchport nonegotiate  !  interface Vlan1  no ip address  shutdown  !  router rip  !  ip classless  ip route 0.0.0.0 0.0.0.0 192.168.100.25  !  ip flow-export version 9  !  !  !  !  privilege configure level 5 interface  privilege configure level 5 ip  privilege configure level 5 ip route  privilege configure level 5 no  privilege configure level 5 no ip  privilege configure level 5 no ip route  privilege configure level 5 no router  privilege configure level 5 router  privilege exec level 5 configure  privilege exec level 5 configure terminal  privilege exec level 3 exit  privilege exec level 3 ping  privilege exec level 3 show  privilege exec level 3 show running-config  privilege exec level 3 show startup-config  privilege exec level 3 ssh  privilege exec level 3 telnet  !  !  !  !  !  line con 0  password 7 082F0A4C0B2B5113405A  login  !  line aux 0  !  line vty 0 4  login  !  !  !  end |

2. Предложить набор учетных записей и прав доступа для эксплуатации маршрутизаторов в крупной корпоративной сети.

Администратор (все привилегии)

username admin privilege 15

Сетевой администратор (конфигурация сети)

username netadmin privilege 10

privilege configure level 10 ip

privilege configure level 10 ip route

privilege configure level 10 no ip

privilege configure level 10 no ip route

privilege configure level 10 ip dhcp

privilege configure level 10 ip address

privilege configure level 10 ip default-gateway

privilege exec level 10 erase startup-config

privilege exec level 10 copy startup-config flash

privilege exec level 10 copy running-config startup-config

Инженер (настройка)

username engineer privilege 5

privilege configure level 5 interface

privilege configure level 5 no router

privilege configure level 5 router

privilege exec level 5 configure

privilege exec level 5 configure terminal

Оператор (просмотр данных)

username operator privilege 3

privilege exec level 3 exit

privilege exec level 3 ping

privilege exec level 3 show

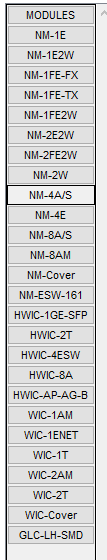
privilege exec level 3 show running-config

privilege exec level 3 show startup-config

privilege exec level 3 ssh

privilege exec level 3 telnet

3. Изучить порядок наименование модулей линейных карт и сетевых интерфейсов на маршрутизаторах и коммутаторах Cisco.



NM-1E 1-Port Ethernet Network Module

NM-1E2W 3600 Network Module With 1 Ethernet And 2 WIC Slots

NM-1FE-FX 1 порт 100BaseFX Ethernet для Cisco Routers

NM-8AM - Network Module with Eight Analog Modems

NM-16AM - Network Module with Sixteen Analog Modems

NM-8AM-J - Network Module with Eight Analog Modems for Japan and Singapore

NM-16AM-J - Network Module with Sixteen Analog Modems for Japan and Singapore

Cisco 4-Port Serial High-Speed WAN Interface Card (HWIC-4T): Four high-speed serial ports (Figure 1A)

Cisco 4-Port Asynchronous/Synchronous High-Speed WAN Interface Card (HWIC-4A/S): Four low-speed synchronous/asynchronous ports (Figure 1B)

Cisco 8-Port Asynchronous/Synchronous High-Speed WAN Interface Card (HWIC-8A/S-232): Eight low-speed synchronous/asynchronous ports, EIA-232 only (Figure 1C)

Cisco 8-Port Asynchronous High-Speed WAN Interface Card (HWIC-8A): Eight asynchronous EIA-232 ports (Figure 1D)

Cisco 16-Port Asynchronous High-Speed WAN Interface Card (HWIC-16A): Sixteen asynchronous EIA-232 ports (Figure 1E)

Cisco 32-Port Asynchronous Serial Service Module (SM-32A): Thirty-two asynchronous EIA-232 ports Figure 1F)