Домашнее задание №1

Топология сети:



Адресация:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Device | Interface | IP Address | Subnet Mask | Default Gateway |
| R1 | G0/0/1.3 | 192.168.3.1 | 255.255.255.0 | N/A |
| R1 | G0/0/1.4 | 192.168.4.1 | 255.255.255.0 | N/A |
| R1 | G0/0/1.8 | N/A | N/A | N/A |
| S1 | VLAN 3 | 192.168.3.11 | 255.255.255.0 | 192.168.3.1 |
| S2 | VLAN 3 | 192.168.3.12 | 255.255.255.0 | 192.168.3.1 |
| PC-A | NIC | 192.168.3.3 | 255.255.255.0 | 192.168.3.1 |
| PC-B | NIC | 192.168.4.3 | 255.255.255.0 | 192.168.4.1 |

Таблица Vlan:

|  |  |  |
| --- | --- | --- |
| VLAN | Name | Interface Assigned |
| 3 | Management | S1: VLAN 3  S2: VLAN 3  S1: F0/6 |
| 4 | Operations | S2: F0/18 |
| 7 | ParkingLot | S1: F0/2-4, F0/7-24, G0/1-2  S2: F0/2-17, F0/19-24, G0/1-2 |
| 8 | Native | N/A |

Задания:

Часть 1: Построить сеть и основные параметры устройств

Часть 2: Создать сетей VLAN и назначение портов коммутатора

Часть 3: Настроить Trunk 802.1Q между коммутаторами

Часть 4: Настроить маршрутизацию между VLAN на маршрутизаторе

Часть 5: Убедитесь, что маршрутизация между VLAN работает

% Invalid input detected at '^' marker.

R1(config)#no ip domain-lookup

R1(config)#enable secret class

R1(config)#line console 0

R1(config-line)#password cisco

R1(config-line)#login

R1(config-line)#line vty 0 4

R1(config-line)#password cisco

R1(config-line)#login

R1(config-line)#exit

R1(config)#service password-encryption

R1(config)#banner motd

% Incomplete command.

R1(config)#banner motd #

Enter TEXT message. End with the character '#'.

# Warning! Unauthorized acces is prohibited! #

R1(config)#s

R1(config)#sa

R1(config)#save r

R1(config)#c

R1(config)#co

R1(config)#config-register

R1(config)#config-register

R1(config)#config-register

R1(config)#cop

R1(config)#copy

R1(config)#transport input ssh telnet

^

% Invalid input detected at '^' marker.

R1(config)#line vty 0 4

R1(config-line)#transport input ssh telnet

^

% Invalid input detected at '^' marker.

R1(config-line)#transport input {ssh | telnet}

^

% Invalid input detected at '^' marker.

R1(config-line)#exit

R1(config)#line vty 0 4

R1(config-line)#password cisco

R1(config-line)#login

R1(config-line)#transport input ssh telnet

^

% Invalid input detected at '^' marker.

R1(config-line)#transport input telnet

R1(config-line)#exit

R1(config)#copy running-config startup-config

^

% Invalid input detected at '^' marker.

R1(config)#end

R1#

%SYS-5-CONFIG\_I: Configured from console by console

R1#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

R1#clock set 16:46:00 12 apr 2023

R1#clock update-calendar

^

% Invalid input detected at '^' marker.

R1#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R1(config)#clock update-calendar

^

% Invalid input detected at '^' marker.

R1(config)#exit

R1#

%SYS-5-CONFIG\_I: Configured from console by console

R1#sh clock

16:47:37.298 UTC Wed Apr 12 2023

R1#reload

System configuration has been modified. Save? [yes/no]:yes

Building configuration...

[OK]

Proceed with reload? [confirm]

Initializing Hardware ...

System integrity status: 00000610

Rom image verified correctly

System Bootstrap, Version 15.4(3r)S5, RELEASE SOFTWARE

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Current image running: Boot ROM0

Last reset cause: LocalSoft

Cisco ISR4321/K9 platform with 4194304 Kbytes of main memory

no valid BOOT image found

Final autoboot attempt from default boot device...

File size is 0x1d0580a0

Located isr4300-universalk9.03.16.05.S.155-3.S5-ext.SPA.bin

Image size 486899872 inode num 12, bks cnt 102567 blk size 8\*512

##########################################################################################################################

Boot image size = 486899872 (0x1d0580a0) bytes

Package header rev 1 structure detected

Calculating SHA-1 hash...done

validate\_package: SHA-1 hash:

calculated 83acd4f8:dc03c892:f243621c:06872286:6c9f0cf5

expected 83acd4f8:dc03c892:f243621c:06872286:6c9f0cf5

RSA Signed RELEASE Image Signature Verification Successful.

Package Load Test Latency : 6390 msec

Image validated

%IOSXEBOOT-4-BOOT\_SRC: (rp/0): mounting /boot/super.iso to /tmp/sw/isos

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cisco ISR4321/K9 (1RU) processor with 1687137K/6147K bytes of memory.

Processor board ID FLM2041W2HD

2 Gigabit Ethernet interfaces

32768K bytes of non-volatile configuration memory.

4194304K bytes of physical memory.

3223551K bytes of flash memory at bootflash:.

Press RETURN to get started!

User Access Verification

Password:

R1>enable

Password:

Password:

Password:

% Bad secrets

R1>enable

Password:

Password:

R1#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R1(config)#exit

R1#

%SYS-5-CONFIG\_I: Configured from console by console

R1#show cl

% Ambiguous command: "show cl"

R1#show clock

0:2:0.586 UTC Mon Mar 1 1993

R1#