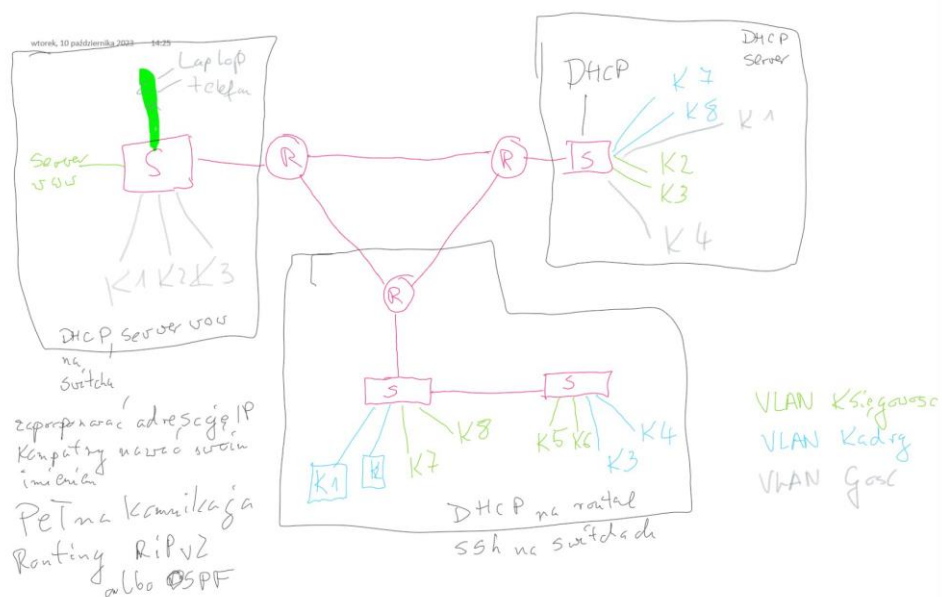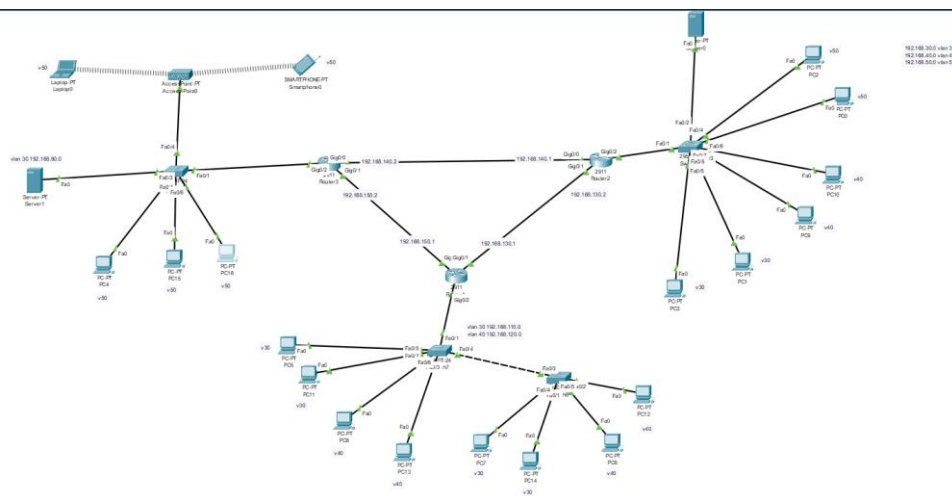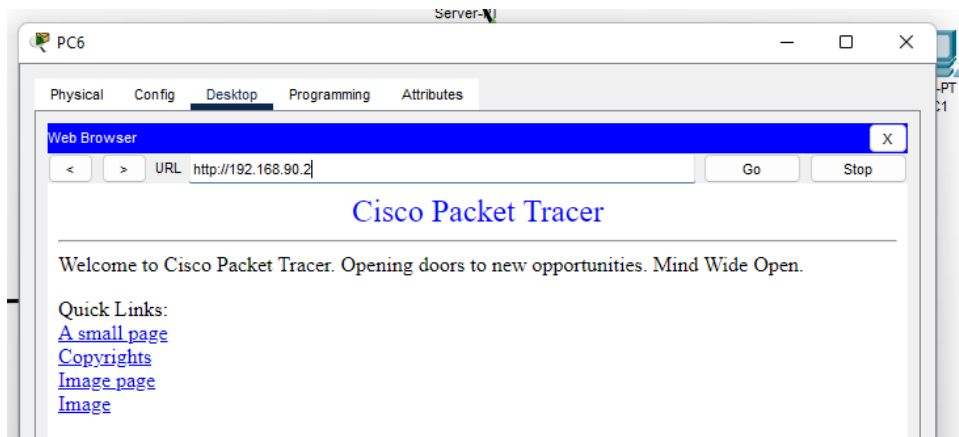Autor: Eryk Majcherczak

Opis projektu:

Ukończony projekt:

Łączenie ze stroną:

Sekcja 1:

IP:

• Adres sieci: 192.168.30.0 (VLAN 30)

• Adres sieci: 192.168.40.0 (VLAN 40)

• Adres sieci: 192.168.50.0 (VLAN 50)

• Maska: 255.255.255.0

Urządzenia:

• Router 2911

• Switch 2950T-24

• Serwer

• 6 PC

VLANY:

• 30 (ksiegowosc) PC 1,3

• 40 (kadry) PC 9,10

• 50 (gosc) PC 0,2

• 80 (NATIVE)

Podłączenia:

• PC FastEthernet0 - Switch FastEthernet0/3,4,5,6,7,8

• Serwer FastEthernet0 - Switch FastEthernet0/2

• Router GigabitEthernet0/2 - Switch FastEthernet0/1

Konfiguracja:

• Serwer

  o IP statyczne:

▪ 192.168.30.2 255.255.255.0

o DHCP

V30

V40

V50

• Switch

o CLI:

▪ en

▪ conf

▪ vlan 30

▪ name ksiegowosc

▪ vlan 40

▪ name kadry

▪ vlan 50

▪ name Gosc

▪ vlan 80

▪ name NATIVE

▪ ex

▪ int f0/3

▪ switchport mode access

- switchport access vlan 30
- int f0/5
  - switchport mode access
  - switchport access vlan 30
- int range f0/7
  - switchport mode access
  - switchport access vlan 40
- int range f0/8
  - switchport mode access
  - switchport access vlan 40
- ex
- int f0/6
  - switchport mode access
  - switchport access vlan 50
- int range f0/4
  - switchport mode trunk
  - switchport trunk native vlan 50
- do wr
- ex
- ex
- copy running-config startup-config
- Router
  - CLI:
    - en
    - conf
    - int g0/2.1
      - encapsulation dot1Q 30
      - ip add 192.168.30.1 255.255.255.0
      - ip helper-address 192.168.1.2
    - ex
    - int g0/2.2

- encapsulation dot1Q 40
- ip address 192.168.40.1 255.255.255.0
- ip helper-address 192.168.1.2
- ex
- int g0/2.3
  - encapsulation dot1Q 50
- ip address 192.168.50.1 255.255.255.0
- ip helper-address 192.168.1.2
- ex
- int g0/2
  - no sh
- ex
- int g0/0
  - ip address 192.168.140.1 255.255.255.0
  - no sh
- ex
- int g0/1
  - ip address 192.168.130.2 255.255.255.0
  - no sh
- ex
- router rip
  - v 2
  - network 192.168.30.0
  - network 192.168.40.0
  - network 192.168.50.0
  - network 192.168.130.0
  - network 192.168.140.0
- ex
- do wr
- ex
- ex

▪ copy running-config startup-config

Sekcja 2:

IP:

• Adres sieci: 192.168.5.0 (VLAN 30)

• Maska: 255.255.255.0

Urządzenia:

• Router

• Switch 2950T-24

• Serwer

• 3 PC

• AccessPoint-PT

• Laptop z modułem WPC300N

• SmartPhone

VLANY:

• 50 (gosc) PC 4,15,16

• 30(ksiegowosc)

• 80 (NATIVE)

Podłączenia:

• PC FastEthernet0 - Switch FastEthernet0/3,5,6

• Serwer FastEthernet0 - Switch FastEthernet0/3

• Router GigabitEthernet0/2 - Switch FastEthernet0/1

• AccessPoint Port0 - Switch FastEthernet0/4

Konfiguracja:

• Serwer

  o IP statyczne:

    ▪ 192.168.90.1 255.255.255.0

• Router

  o CLI:

    ▪ en

    ▪ conf

- int g0/2.1
  - encapsulation dot1Q 30
  - ip add 192.168.90.1 255.255.255.0
- int g/2.2
  - encapsulation dot1Q 50
  - ip add 192.168.100.1 255.255.255.0
- ex
- int g0/2
  - no sh
- ex
- int g0/1
  - ip address 192.168.140.2 255.255.255.0
  - no sh
- ex
- int g0/2
  - ip address 192.168.150.2 255.255.255.0
  - no sh
- ex
- router rip
  - v 2
- network 192.168.90.0
- network 192.168.100.0
- network 192.168.140.0
- network 192.168.150.0
- ex
- do wr
- ex
- ex
- copy running-config startup-config
- Switch

o CLI:

- en
- conf
- vlan 50
- name gosc
- vlan 30
- name ksiegowosc
- vlan 80
- name NATIVE
- ex
- int FastEthernet f0/2,5,6
  - switchport mode access
  - switchport access vlan 50
- int f0/3
  - switchport mode access
  - switchport access vlan 30
- ex
- ip dhcp excluded-address 192.168.90.1 192.168.90.10
- ip dhcp pool v30
  - network 192.168.90.0 255.255.255.0
  - default-router 192.168.90.1
- ex
- ip dhcp excluded-address 192.168.100.1 192.168.100.10
- ip dhcp pool v50
  - network 192.168.100.0 255.255.255.0
  - default-router 192.168.100.1
- int vlan30
  - ip address 192.168.5.254 255.255.255.0
  - ip helper-address 192.168.5.254
- do wr
- ex
- ex

▪ copy running-config startup-config

Sekcja 3:

IP:

• Adres sieci: 192.168.110.0 (VLAN 30)

• Adres sieci: 192.168.120.0 (VLAN 50)

• Maska: 255.255.255.0

Urządzenia:

• Router 2911

• Switch 2950-24

• Switch 2950-24

• 8 PC

VLANY:

• 30 (ksiegowosc) PC 5,7,11,14

• 40 (kadry) PC 6,8,12,13

• 80 (NATIVE)

Podłączenia:

• PC FastEthernet0 - Switch FastEthernet0/1,2,2,3,4,5,5,6

• Switch FastEthernet0/3 - Switch FastEthernet0/4

• Router GigabitEthernet0/2 - Switch FastEthernet0/1

Konfiguracja:

• Switch 3_S1

o CLI:

 ▪ en

 ▪ conf

 ▪ vlan 10

  ▪ name ksiegowosc

 ▪ vlan 20

  ▪ name kadry

 ▪ vlan 40

  ▪ name NATIVE

 ▪ ex

- Switch 3_S1
  - int range f0/3
    - switchport mode access
    - switchport access vlan 40
  - int range f0/6
    - switchport mode access
    - switchport access vlan 40

  - int range f0/2
    - switchport mode access
    - switchport access vlan 30
  - ex
  - int f0/5
    - switchport mode trunk
    - switchport trunk native vlan 30
  - ex
  - hostname 3_S1
  - ip domain-name projekt.us
  - username admin privilage 15 secret admin
  - line vty 0 15
    - login local
    - transport input ssh
  - crypto key generate rsa
    - 1024
  - do wr
  - ex
  - ex
  - copy running-config startup-config
- Switch 3_S2
  - int f0/1
    - switchport mode access

- switchport access vlan 30
- int f0/4
  - switchport mode access
  - switchport access vlan 30
- int range f0/2
  - switchport mode access
  - switchport access vlan 40
- ex
- int f0/5
  - switchport mode trunk
  - switchport trunk native vlan 40
- ex
- hostname 3_S2
- ip domain-name projekt.us
- username admin privilage 15 secret admin
- line vty 0 15
  - login local
  - transport input ssh
- crypto key generate rsa
  - 1024
- do wr
- ex
- ex
- copy running-config startup-config
- Router
o CLI:
  - en
  - conf
  - int g0/2.1
  - encapsulation dot1Q 30
  - ip add 192.168.110.1 255.255.255.0

- ex
- int g0/2.2
  - encapsulation dot1Q 40
  - ip address 192.168.120.1 255.255.255.0
- ex
- ip dhcp excluded-address 192.168.120.1 192.168.120.10
- ip dhcp pool v40
  - network 192.168.120.0 255.255.255.0
  - default-router 192.168.120.1
- ex
- ip dhcp excluded-address 192.168.110.1 192.168.110.10
- ip dhcp pool v30
  - network 192.168.110.0 255.255.255.0
  - default-router 192.168.110.1
- ex
- int g0/2
  - no sh
- ex
- int g0/1
  - ip address 192.168.150.1 255.255.255.0
  - no sh
- ex
- int g0/2
  - ip address 192.168.30.1 255.255.255.0
  - no sh
- ex
- router rip
  - v 2
  - network 192.168.150.0
  - network 192.168.130.0
  - network 192.168.110.0

- network 192.168.120.0

- ex

- do wr

- ex

- ex

- copy running-config startup-config