**Ustawienie Vlanów i konfiguracja DHCP dla vlanów 10,20,30 na routerze i switchu.**

**R1**

|  |
| --- |
| en  conf t  int fastEthernet 0/0  no ip address  no shutdown  int f0/0.10  encapsulation dot1Q 10  ip address 192.168.10.1 255.255.255.0  desc vlan10\_subinterface  int f0/0.20  encapsulation dot1Q 20  ip address 192.168.20.1 255.255.255.0  desc vlan20\_subinterface  int f0/0.30  encapsulation dot1Q 30  ip address 192.168.30.1 255.255.255.0  description vlan30\_subinterface  int f0/0.40  encapsulation dot1Q 40  ip address 192.168.40.1 255.255.255.0  description vlan40\_subinterface |

**sw1**

|  |
| --- |
| en  conf t  vlan 10  name Nauczyciele  vlan 20  name Uczniowie  vlan 30  name Administracja  vlan 40  name VOIP  exit  interface fastEthernet 0/24  switchport mode trunk  exit  interface range fastEthernet 0/1-4  switchport mode access  switchport access vlan 10  exit  interface range fastEthernet 0/5-10  switchport mode access  switchport access vlan 20  exit  interface range fastEthernet0/11-15  switchport mode access  switchport access vlan 30  interface range fastEthernet0/16-18  no switchport mode access  switchport voice vlan 40 |

**R1**

|  |
| --- |
| en  conf t  ip dhcp pool vlan10  network 192.168.10.0 255.255.255.0  default-router 192.168.10.1  dns-server 8.8.8.8  ip dhcp excluded-address 192.168.10.1  ip dhcp excluded-address 192.168.10.255  ip dhcp pool vlan20  network 192.168.20.0 255.255.255.0  default-router 192.168.20.1  dns-server 8.8.8.8  ip dhcp excluded-address 192.168.20.1  ip dhcp excluded-address 192.168.20.255  ip dhcp pool vlan30  network 192.168.30.0 255.255.255.0  default-router 192.168.30.1  dns-server 8.8.8.8  ip dhcp excluded-address 192.168.30.1  ip dhcp excluded-address 192.168.30.255  ip dhcp pool vlan40  network 192.168.40.0 255.255.255.0  default-router 192.168.40.1  dns-server 8.8.8.8  ip dhcp excluded-address 192.168.40.1  ip dhcp excluded-address 192.168.40.255  option 150 ip 192.168.40.1  Exit |

**sw 1, 2**

|  |
| --- |
| interface gigabitEthernet 0/1  switchport mode trunk  switchport trunk allowed vlan 10,20,30 |

**Voice**

Int fa0/1

switchport mode access

switchport voice vlan 1