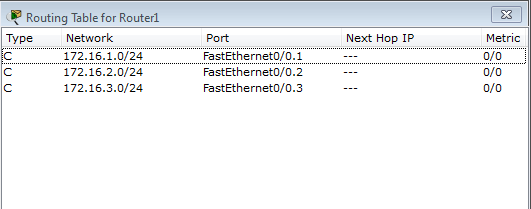
**Unir dos redes VLAN con un router cisco**

|  |
| --- |
| En este ejercicio se crean tres redes VLAN en un switch, posteriormente se comunican mediante un router. La topología es la siguiente.  [https://sites.google.com/site/jramon208/_/rsrc/1294184812095/inicio/redes/ejerciciospackettracer/unir-dos-redes-vlan-con-un-router-cisco/PT_UNIRVLANSROUTER.png?height=238&width=320](https://sites.google.com/site/jramon208/inicio/redes/ejerciciospackettracer/unir-dos-redes-vlan-con-un-router-cisco/PT_UNIRVLANSROUTER.png?attredirects=0)  Las redes son:   * 172.16.1.0/24   + VLAN ID 2   + Nombre SISTEMAS * 172.16.2.0/24   + VLAN ID 3   + Nombre DESARROLLO * 172.16.3.0/24   + VLAN ID 4   + Nombre REDES   Ya que el switch es de 24 puertos, son dos redes de 8 puertos y una de 7 ya que el puerto 24 será donde se conecte el router.  **CONFIGURACIÓN DEL SWITCH**  **Para crear la VLANs se utilizan los siguientes comandos.**  **!Crear las VLANs**  vlan 2  name SISTEMAS  exit    vlan 3  name DESARROLLO  exit    vlan 4  name REDES  exit  **Para asignar cada puerto del switch a sus respectivas VLANs se utilizan los siguientes comandos.**  **!Asignación de puertos a la VLAN SISTEMAS**    interface fastEthernet 0/1  switchport access vlan 2  exit    interface fastEthernet 0/2  switchport access vlan 2  exit    interface fastEthernet 0/3  switchport access vlan 2  exit    interface fastEthernet 0/4  switchport access vlan 2  exit    interface fastEthernet 0/5  switchport access vlan 2  exit    interface fastEthernet 0/6  switchport access vlan 2  exit    interface fastEthernet 0/7  switchport access vlan 2  exit    interface fastEthernet 0/8  switchport access vlan 2  exit  **!Asignación de puertos a la VLAN DESARROLLO**    interface fastEthernet 0/9  switchport access vlan 3  exit    interface fastEthernet 0/10  switchport access vlan 3  exit    interface fastEthernet 0/11  switchport access vlan 3  exit    interface fastEthernet 0/12  switchport access vlan 3  exit    interface fastEthernet 0/13  switchport access vlan 3  exit    interface fastEthernet 0/14  switchport access vlan 3  exit    interface fastEthernet 0/15  switchport access vlan 3  exit    interface fastEthernet 0/16  switchport access vlan 3  exit     **!Asignación de puertos a la VLAN REDES**    interface fastEthernet 0/17  switchport access vlan 4  exit    interface fastEthernet 0/18  switchport access vlan 4  exit    interface fastEthernet 0/19  switchport access vlan 4  exit    interface fastEthernet 0/20  switchport access vlan 4  exit    interface fastEthernet 0/21  switchport access vlan 4  exit    interface fastEthernet 0/22  switchport access vlan 4  exit    interface fastEthernet 0/23  switchport access vlan 4  exit  **!Puerto 24 en modo trunk**   interface fastEthernet 0/24  switchport mode trunk  exit  **CONFIGURACIÓN DEL ROUTER** interface fastEthernet 0/0.1  encapsulation dot1Q 2  ip address 172.16.1.1 255.255.255.0  exit    interface fastEthernet 0/0.2  encapsulation dot1Q 3  ip address 172.16.2.1 255.255.255.0  exit    interface fastEthernet 0/0.3  encapsulation dot1Q 4  ip address 172.16.3.1 255.255.255.0  exit |



https://youtu.be/Hbq2rdCle-0