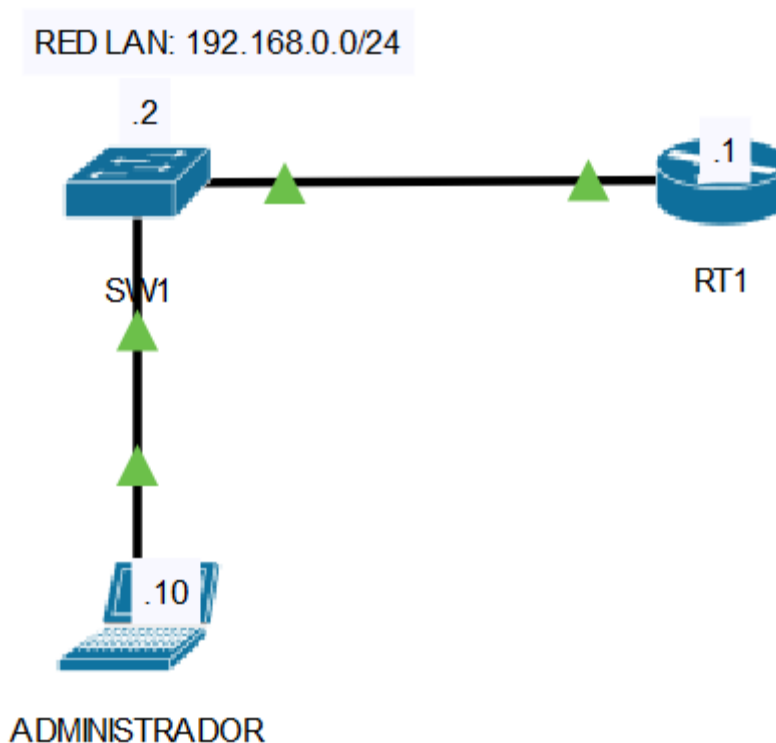


SSHv2

By Enrique F. [Proyectos de Networking](#)

Configuración de SSHv2 en Router & Switch.

"Topología de red implementada"



Descripción: En la siguiente imagen se muestra un Switch 2960 y un Router ISR S4300 en la misma red LAN configurados con SSHv2.

¿Qué es SSH?:

SSH significa "Secure Shell", que en español se traduce como "Shell Seguro". Es un protocolo de red que proporciona una forma segura de acceder a sistemas remotos y administrarlos a través de una interfaz de línea de comandos. SSH es ampliamente utilizado para administrar

servidores y dispositivos de red de manera remota y segura. SSH generalmente escucha en el puerto 22 por defecto, pero se puede configurar para utilizar otros puertos si es necesario

Configuración de SSHv2.

```
RT1>enable
```

```
RT1#configure terminal
```

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

```
RT1(config)#interface g0/0/0
```

```
RT1(config-if)#ip address 192.168.0.1 255.255.255.0
```

```
RT1(config-if)#description ENLACE HACIA SW1
```

```
RT1(config-if)#no shutdown
```

```
RT1(config-if)#exit
```

```
RT1(config)#
```

```
RT1(config)#ip domain-name comandoscisco.cl
```

```
RT1(config)#crypto key generate RSA
```

The name for the keys will be: RT1.comandoscisco.cl

Choose the size of the key modulus in the range of 360 to 4096 for your

General Purpose Keys. Choosing a key modulus greater than 512 may take

a few minutes.

How many bits in the modulus [512]: **2048**

% Generating 2048 bit RSA keys, keys will be non-exportable...[OK]

RT1(config)#

*Mar 1 1:5:14.136: %SSH-5-ENABLED: SSH 1.99 has been enabled

RT1(config)#

RT1(config)#**ip ssh version 2**

RT1(config)#**ip ssh time-out 60**

RT1(config)#**ip ssh authentication-retries 3**

RT1(config)#**login block-for 30 attempts 3 within 60**

RT1(config)#**line vty 0 4**

RT1(config-line)#**transport input ssh**

RT1(config-line)#**login local**

RT1(config-line)#**password cisco987654321**

RT1(config-line)#**logging synchronous**

RT1(config-line)#**exit**

RT1(config)#**banner motd #SOLO PERSONAL AUTORIZADO#**

RT1(config)#**enable secret 0 cisco987654321**

RT1(config)#**enable password 987654321cisco**

RT1(config)#**username admin privilege 15 password cisco987654321**

```
RT1(config)#service password-encryption
```

```
RT1(config)#
```

```
SW1>enable
```

```
SW1#configure terminal
```

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

```
SW1(config)#interface vlan 1
```

```
SW1(config-if)#ip address 192.168.0.2 255.255.255.0
```

```
SW1(config-if)#description SSH/ADMIN
```

```
SW1(config-if)#no shutdown
```

```
SW1(config-if)#exit
```

```
SW1(config)#
```

```
SW1(config)#ip domain-name comandoscisco.cl
```

```
SW1(config)#crypto key generate RSA
```

The name for the keys will be: RT1.comandoscisco.cl

Choose the size of the key modulus in the range of 360 to 4096 for your

General Purpose Keys. Choosing a key modulus greater than 512 may take

a few minutes.

How many bits in the modulus [512]: **2048**

% Generating 2048 bit RSA keys, keys will be non-exportable...[OK]

RT1(config)#

*Mar 1 1:5:14.136: %SSH-5-ENABLED: SSH 1.99 has been enabled

SW1(config)#

SW1(config)#**ip ssh version 2**

SW1(config)#**ip ssh time-out 60**

SW1(config)#**ip ssh authentication-retries 3**

SW1(config)#**line vty 0 15**

SW1(config-line)#**transport input ssh**

SW1(config-line)#**login local**

SW1(config-line)#**password cisco987654321**

SW1(config-line)#**logging synchronous**

SW1(config-line)#**exit**

SW1(config)#**banner motd #SOLO PERSONAL AUTORIZADO#**

SW1(config)#**enable secret 0 cisco987654321**

SW1(config)#**enable password 987654321cisco**

SW1(config)#**username admin privilege 15 password cisco987654321**

SW1(config)#**service password-encryption**

```
SW1(config)#ip default-gateway 192.168.0.1
```

```
SW1(config)#
```

PC del Administrador entrando por SSH al SW1 y RT1

```
C:\>ssh -l admin 192.168.0.2  
  
Password:  
  
SOLO PERSONAL AUTORIZADO  
  
SW1#exit  
  
[Connection to 192.168.0.2 closed by foreign host]  
C:\>ssh -l admin 192.168.0.1  
  
Password:  
  
SOLO PERSONAL AUTORIZADO  
  
RT1#exit  
  
[Connection to 192.168.0.1 closed by foreign host]  
C:\>
```

Tabla de Direccionamiento

Nombre	IP	Red/Mask	Gateway	Interfaz	VLAN
RT1	192.168.0.1	192.168.0.0/24	N/A	G0/0/0	N/A
SW1	192.168.0.2	192.168.0.0/24	192.168.0.1	VLAN	1
ADMIN	192.168.0.10	192.168.0.0/24	192.168.0.1	F0/0	N/A

Descarga aquí la topología ([SSHv2.pkt](#))