Comandos ingreso y basicos

Router>enable

Router#configure terminal

Switch(config)#do copy r s

Presionar tabulador completa la palabra

Router#configure "?" **el signo de pregunta sirve para ayudar a saber que palabra viene despues**

Router(config)#do ping *<ping destino>

Router(config)#do tracert o tracer <ip destino>

Router#show running-config

Configuracion interfaces

Router(config)#interface *<nombre interfaz><numero de interfaz>*

Router(config-if)#ip address <ip> <mascara>

Router(config-if)#no shutdown

Router(config-if)#clock rate *56000 <seriales con reloj>*

Router(config-if)# ipv6 address <ipv6>

Router#show ip interface brief

Router(config-if)#ip address dhcp *<la interfaz recibe ip por DHCP>*

Seguridad

Router(config)#enable password *password*

Router(config)#enable secret *password*

Router(config)#service password-encryption

Router(config)#line console 0

Router(config-line)#password *password*

Router(config-line)#login

Router(config)#line vty 0 *4*

Router(config-line)#password *password*

Router(config-line)#login

Router(config)#banner motd **$** *esciribir mensaje y utilizar el $ para finalizar el mensaje*

Resetear router

!.Reinicar router 2. CTRL+B mientras cargan los astericos

Rommon 1>confreg 0x2142

Rommon 2>reset

Enrutamiento estatico

Router(config)#ip route *<red destino> <mascara destino> <salto o interfaz salida>*

Router(config)#ip route 0.0.0.0. 0.0.0.0 <salto> predeterminada

Router#show ip route

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Configutacion SSH

Router(config)#hostname *name*

Router(config)#ip domain-name *nombre de dominio*

Router(config)#crypto key generate rsa

Router(config)#*1024*

Router(config)#username *username* privilege *15* password *password*

Router(config)#line vty 0 15

Router(config-line)#transport input ssh

Router(config-line)#login local

Router(config)# ip ssh version 2

SWITCH

Switch(config)#interface vlan 10

Switch(config-if)#ip address <> <>

Switch(config)#ip default-gateway <ip interfaz router>

configuracion OSPF

Router(config)#router ospf 1

Router(config-router)#network <ip red> <wilcard> area 0 "redes direct conect"

Router(config-router)#redistribute static subnets <inyecta rutas staticas>

Router(config-router)#default-information originate

Router#show ip ospf neighbor

Router#show ip protocols

Configuracion OSPFv6

Router(config)#ipv6 router ospf 1

Router(config)#ipv6 unicast-routing

Router(config-rtr)#router-id "nombre"

Router(config-if)#ipv6 ospf 1 area 0

Resetear switch

Reiniciar router presionar Boton del switch y esperar a que carge switch:

switch: flash_init

switch: dir flash:

switch: delete vlan.dat.renamed

switch: delete config.text.renamed

switch: reset

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Configuracion VLAN router

Router

Router(config)#interface *g0/0.10*

Router(config-subif)#encapsulation dot1Q 10

Router(config-subif)#ip address <> <>

Router(config)#interface g0/0

Router(config-if)#no shutdown

Configuracion VLANSwitch

Switch(config)#vlan 10

Switch(config)#interface vlan 10

Switch(config-vlan)#name nombre

Switch(config)#interface range f0/1-24

Switch(config-if-range)#switchport access vlan 10

Switch(config)#interface range g0/1-2

Switch(config-if-range)#switchport mode trunk

Switch(config)#do show vlan brief

Configuracion DHCP

Router(config)#ip dhcp pool *name*

Router(dhcp-config)#network *<ip de la red> <mascara de la red>*

Router(dhcp-config)#default-router *ip interfaz de salida*

Router(dhcp-config)#dns-server *ip DNS*

Router#show ip dhcp binding

Router#show ip dhcp pool *name*

Configuracion DHCPV6

Router(config)#ipv6 dhcp pool "nombre"

Router(config-dhcpv6)#dns-server *ip DNS*

Router(config-if)#ipv6 dhcp server "nombre"

ACL extendida

CERCA DEL ORIGEN

Router(config)#access-list *101 permit tcp host 10.1.1.2 host 172.16.1.1 eq telnet*

Router(config)#access-list *101 permit ip any any*

Router(config-if)#ip access-group *101 in or out*

OTRA FORMA PARA CREAR ACL EXTENDIDA

Router(config)#ip access-list extended *<nombre o numero 100-199>*

Router(config-ext-nacl)#*permit tcp host 10.1.1.2 host 172.16.1.1 eq telnet*

Router(config-if)#ip access-group *101 in or out*

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NAT dinamico

Router(config)#ip nat pool *<nombre> <start ip address> <end ip address>" nestmask* <mask>*

Router(config)#access-list 1 permit <ip red> <wilcard red>

Router(config)#ip nat inside source list 1 pool <nombre>

Router(config-if)#ip nat inside

Router(config-if)#ip nat outside

Router(config)#do show ip nat translation

ACL estandar

CERCA DEL DESTINO

Router(config)#access-list *1 permit <red ip 1-99> <mask red>*

Router(config)#access-list *1 permit ip any*

Otra forma para crear una ACL Standar

Router(config)#ip access-list standard <nombre o numero 1-99>

Router(config-std-nacl)#permit <red> <wildcard>

Router(config-if)#ip access-group *nombre o numero in or out*

NAT estatico

Router(config)#ip nat inside source static *<ip privada host> <ip public>

Router(config)#interface g0/0

Router(config-if)#ip nat outside

Router(config)#interface g0/1

Router(config-if)#ip nat inside

Router(config)#do show ip nat translation

PAT

Router(config)#access-list 1 permit <ip de red> <wilcard>

Router(config)#ip nat inside source list 1 interface g0/0 overload

Router(config-if)#ip nat inside

Router(config-if)#ip nat outside

Router(config)#do show ip nat translation

Spanning-tree

Switch(config)#do show spanning-tree

Switch(config)#spanning-tree vlan *<id-vlan> root {primary | secondary}*

Switch(config)#spanning-tree vlan *<numero>* priority *<numero>*

Switch(config)#no spanning-tree *desactivar spanning-tree*

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VTP Vlan Trunk Protocols

Primero crear las VLAN

Switch(config)#vtp domain *<nombre cualquiera>*

Switch(config)#vtp password *<clave cualquiera>*

Switch(config)#vtp mode *client, server o transparent*

Switch(config)#do show vtp status

PORT-SECURITY

Switch01(config-if)# switchport mode access

Switch01(config-if)#switchport port-security

switchport port-security violation *{ protect | restrict | shutdown }*

MAC UNICA

Switch01(config-if)#switchport port-security maximum 1

Switch01(config-if)# switchport port-security violation shutdown

Switch01(config-if)# switchport port-security mac-address *0a04.aaf8.13ad*

PORT STICKY

Switch01(config-if)# switchport mode access

Switch01(config-if)#switchport port-security

Switch01(config-if)#switchport port-security maximum *1*

Switch01(config-if)# switchport port-security violation shutdown

Switch01(config-if)# switchport port-security mac-address sticky

show port-security interface <>

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