ipv6

SUBNETING Y VLSM.

unicast de uno a uno.

link-local direcciones locales que compartan la misma red.

FE80::/10 (comunicacion local)

unicast global comunicación entre redes.

2000::/3 2000::-3fff:ffff....

DIVISIONES /

2100:DB8:CAFE/ :01F: / 35:4:AF/64

id global, id de red, id de interfaz.

multicast de uno a varios

anycast de uno a cualquiera

Local host –loopback

::1/128

Dirección sin especificar

::/128

Cada hexteto tiene 16 bits y cada número tiene 4 bits

2100:0000:0000:0001:0000:0000:0000:0000

2100:0:0:1:0:0:0:0 simplificado 2100::1:0:0:0:0

PRACTICA

2500::/64

2500:0:0:1000::/49

2000::/49

3000::/49

QUE ES HSRP

; se desglosa.

Asignación de ipv6: manual static, automática; slaac; ndp;ns, na,rs, ra

dhcpv6; stateless y statefull.

Multicast

Todos los nodos

Ff02::1

Todos los routers

Ff02::2

Todos los servidores dhcp

Ff02::2:1

Nodo solicitado

Router6

enable

Configure terminal

Int g0/1

Ipv6 enable

Ipv6 address FE80::2 link-local

Ipv6 address 2500::20/64

no shutdown

standby version 2

standby 1 ipv6 autoconfig

do show standby

exit

ipv6 unicast-routing

ipv6 router ospf 1

router-id 2.2.2.2

exit

int g0/0

ipv6 ospf 1 area 0

exit

int g0/1

ipv6 router ospf 1 area 0

no sh

exit

1:33

Router4

enable

configure terminal

Interface g0/1

Ipv6 address FE80::C link-local

no shutdown

ipv6 unicast-routing

exit

int g0/0

ipv6 enable

ipv6 address 2500:0:0:1::A/16

ipv6 address FE90::1 link-local

exit

interface g0/1

ipv6 ospf 1 area 0

exit

ipv6 router ospf 1

router-id 1.1.1.1

exit

interface g0/1

ipv6 ospf priority 255

Router7

enable

Configure terminal

Int g0/1

Ipv6 enable

Do show ipv6 int bri

Ipv6 address 2500::10/64

Ipv6 address 2500::11/64

Ipv6 address 2500::12/64

Ipv6 address 2500::13/64

no ipv6 address

Ipv6 address 2500::10/64

Ipv6 address FE80::1 link-local

no shutdown

standby version 2

standby 1 ipv6 autoconfig

exit

ipv6 unicast-routing

ipv6 dhcp pool lanipv6

domain-name LAN

dns-server 3000: :2

exit

interfa g0/1

ipv6 dhcp server lanipv6

ipv6 managed-config-flag

no ipv6 other-config-flag

no ipv6 managed-config-flag

router1

enable

configure terminal

int g0/0

ipv6 enable

ipv6 addres 2500:0:0:1::B/64

ipv6 address FE90::F1 link-local

exit

ipv6 route ::/0 2500:0:0:1::B

ipv6 route ::/0 g0/0 FE90::F1

REVISAR OSPF PARA IPV6 Y LOS DEMAS ENRUTAMIENTOS