CURSO TÉCNICO EM REDES DE COMPUTADORES UNIDADE CURRICULAR DE COMUTAÇÃO DE REDE LOCAL PR: UCR5 DESCRITIVO DA SITUAÇÃO DE APRENDIZAGEM 2 – atividade1

Resolução da atividade

1 - Modifique a prioridade do Switch para 2047. Salve as alterações. O que aconteceu? Quantas opções foram dadas?

Não é possível modificar para essa prioridade mencionada, pois as opções são múltiplos de 4096 em diante, conforme resultado do comando:

Switch(config)#spanning-tree vlan 1 priority 2047

% Bridge Priority must be in increments of 4096.

% Allowed values are:

  0   4096 8192 12288 16384 20480 24576 28672

  32768 36864 40960 45056 49152 53248 57344 61440

2 - No Switch, altere a prioridade para 8192. Salve as alterações. O que aconteceu? Printe a resposta. Quais são as portas raiz, designadas, não-designadas e desabilitadas?

Situação antes do Comando:

Switch#sh sp

VLAN0001

  Spanning tree enabled protocol ieee

  Root ID   Priority   32769

        Address   0003.E42E.D8EE

        Cost   19

        Port   1(FastEthernet0/1)

        Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

  Bridge ID Priority   32769 (priority 32768 sys-id-ext 1)

        Address   0060.2F55.7E23

        Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

        Aging Time 20

Interface   Role Sts Cost   Prio.Nbr Type

```
---------------- ---- --- --------- -------- -------------------------------
Fa0/1       Root FWD 19      128.1  P2p
Fa0/2       Desg FWD 19      128.2  P2p
Fa0/3       Altn BLK 19      128.3  P2p
Fa0/4       Desg FWD 19      128.4  P2p
Fa0/5       Altn BLK 19      128.5  P2p
Fa0/6       Desg FWD 19      128.6  P2p
```

Comando utilizado: Switch(config)#spanning-tree vlan 1 priority 8192

Situação depois do Comando:

Switch#sh sp

VLAN0001

  Spanning tree enabled protocol ieee

  Root ID   Priority   8193

        Address   0060.2F55.7E23

        This bridge is the root

        Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

  Bridge ID Priority   8193 (priority 8192 sys-id-ext 1)

        Address   0060.2F55.7E23

        Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

        Aging Time 20


```
Interface      Role Sts Cost     Prio.Nbr Type
---------------- ---- --- --------- -------- -------------------------------
Fa0/1       Desg FWD 19      128.1  P2p
Fa0/2       Desg FWD 19      128.2  P2p
Fa0/3       Desg LSN 19      128.3  P2p
Fa0/4       Desg FWD 19      128.4  P2p
```

Fa0/5   Desg LSN 19   128.5   P2p

Fa0/6   Desg FWD 19   128.6   P2p

3 - Entre no modo CLI do Switch, e execute o comando "no spanning-tree vlan 1". Salve as alterações. O que aconteceu? Printe a resposta.

Switch(config)#no spanning-tree vlan 1

Switch(config)#exit

Switch#

%SYS-5-CONFIG_I: Configured from console by console

Switch#sh sp

No spanning tree instance exists.

4 - Coloque o Switch no padrão através dos comandos. Salve as alterações. O que aconteceu? Printe a resposta.

Switch(config)#spanning-tree vlan 1

Switch(config)#spanning-tree vlan 1 priority 32768

Switch(config)#exit

Switch#

%SYS-5-CONFIG_I: Configured from console by console

Switch#sh sp

VLAN0001

 Spanning tree enabled protocol ieee

 Root ID   Priority   32769

      Address   0003.E42E.D8EE

      Cost   19

      Port   1(FastEthernet0/1)

Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Bridge ID Priority   32769 (priority 32768 sys-id-ext 1)

Address   0060.2F55.7E23

Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Aging Time 20

Interface   Role Sts Cost   Prio.Nbr Type

---------------- ---- --- --------- -------- -------------------------------

Fa0/1   Root LSN 19   128.1 P2p

Fa0/2   Desg LSN 19   128.2 P2p

Fa0/3   Desg LSN 19   128.3 P2p

Fa0/4   Desg LSN 19   128.4 P2p

Fa0/5   Desg LSN 19   128.5 P2p

Fa0/6   Desg LSN 19   128.6 P2p

Entre no modo CLI nos Switches 1 e 3 e configure as penúltimas prioridades.

5- Após executar o descrito acima, salve as alterações. O que aconteceu? Printe a

resposta. Quais são as portas raiz, designadas, não-designadas e desabilitadas?

Switch 1

Antes do comando

Switch#sh sp

VLAN0001

 Spanning tree enabled protocol ieee

 Root ID   Priority   32769

Address   0003.E42E.D8EE

Cost   19

Port   2(FastEthernet0/2)

Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Bridge ID Priority   32769 (priority 32768 sys-id-ext 1)

     Address   0090.0C96.5E03

     Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

     Aging Time 20

Interface   Role Sts Cost   Prio.Nbr Type

---------------- ---- --- --------- -------- -------------------------------

Fa0/1   Desg FWD 19   128.1   P2p

Fa0/2   Root FWD 19   128.2   P2p

Fa0/3   Desg FWD 19   128.3   P2p

Fa0/4   Altn BLK 19   128.4   P2p

Fa0/5   Desg FWD 19   128.5   P2p

Fa0/6   Altn BLK 19   128.6   P2p

Após o comando de alterar a prioridade

Switch(config)#spanning-tree vlan 1 priority 57344

Switch(config)#exit

Switch#

%SYS-5-CONFIG_I: Configured from console by console

sh sp

VLAN0001

 Spanning tree enabled protocol ieee

 Root ID   Priority   32769

     Address   0003.E42E.D8EE

     Cost   19

     Port   2(FastEthernet0/2)

     Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

 Bridge ID Priority   57345 (priority 57344 sys-id-ext 1)

     Address   0090.0C96.5E03

Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Aging Time 20

Interface	Role	Sts	Cost	Prio.Nbr	Type
Fa0/1	Desg	FWD	19	128.1	P2p
Fa0/2	Root	FWD	19	128.2	P2p
Fa0/3	Desg	FWD	19	128.3	P2p
Fa0/4	Altn	BLK	19	128.4	P2p
Fa0/5	Desg	FWD	19	128.5	P2p
Fa0/6	Altn	BLK	19	128.6	P2p

Switch 3

Antes do comando

Switch(config)#do sh sp

VLAN0001

 Spanning tree enabled protocol ieee

 Root ID   Priority   32769

        Address   0003.E42E.D8EE

        Cost   19

        Port   1(FastEthernet0/1)

        Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

 Bridge ID Priority   32769 (priority 32768 sys-id-ext 1)

        Address   0060.2F55.7E23

        Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

        Aging Time 20

Interface	Role	Sts	Cost	Prio.Nbr	Type
Fa0/1	Root	FWD	19	128.1	P2p

Fa0/2	Desg FWD 19	128.2	P2p
Fa0/3	Altn BLK 19	128.3	P2p
Fa0/4	Desg FWD 19	128.4	P2p
Fa0/5	Altn BLK 19	128.5	P2p
Fa0/6	Desg FWD 19	128.6	P2p

Após o comando para alterar a prioridade

Switch(config)#spanning-tree vlan 1 priority 57344

Switch(config)#do sh sp

VLAN0001

  Spanning tree enabled protocol ieee

  Root ID   Priority   32769

        Address   0003.E42E.D8EE

        Cost   19

        Port   1(FastEthernet0/1)

        Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

  Bridge ID Priority   57345 (priority 57344 sys-id-ext 1)

        Address   0060.2F55.7E23

        Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

        Aging Time 20

Interface	Role Sts Cost	Prio.Nbr Type
---------------	---- --- ---------	-------- -------------------------------
Fa0/1	Root FWD 19	128.1 P2p
Fa0/2	Desg FWD 19	128.2 P2p
Fa0/3	Altn BLK 19	128.3 P2p
Fa0/4	Desg FWD 19	128.4 P2p
Fa0/5	Altn BLK 19	128.5 P2p
Fa0/6	Desg FWD 19	128.6 P2p