Агрегирование каналов

построение сети

KC30



Switch(config-if-range)#end

Building configuration...

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

Switch#

[OK] Switch#

Switch#wr memory



```
Конфигурируем Switch0
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int range fs0/1-2
% Invalid input detected at '^' marker.
Switch(config)#int range fa0/1-2
Switch(config-if-range)#channel-group 1 mode ?
             Enable LACP unconditionally
  auto
             Enable PAgP only if a PAgP device is detected
  desirable Enable PAgP unconditionally
             Enable Etherchannel only
  passive
             Enable LACP only if a LACP device is detected
Switch(config-if-range)#channel-group 1 mode on
Switch(config-if-range)#
Creating a port-channel interface Port-channel 1
%LINK-5-CHANGED: Interface Port-channel1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Port-channel1, changed state to up
Switch(config-if-range)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console
Switch#wr memory
Building configuration...
[OK]
Switch#
тоже самое y switch1
 Switch>
 Switch>en
 Switch#conf t
 Enter configuration commands, one per line. End with CNTL/Z.
 Switch(config)#int range fa0/1-2
 Switch(config-if-range)#channel-group 1 mode?
 mode
 Switch(config-if-range)#channel-group 1 mode?
 mode
 Switch(config-if-range)#channel-group 1 mode ?
   active
              Enable LACP unconditionally
   auto Enable PAgP only if a PAgP device is detected desirable Enable PAgP unconditionally
              Enable Etherchannel only
   on
              Enable LACP only if a LACP device is detected
   passive
 Switch(config-if-range)#channel-group 1 mode on
Switch(config-if-range)#
 Creating a port-channel interface Port-channel 1
 %LINK-5-CHANGED: Interface Port-channel1, changed state to up
 %LINEPROTO-5-UPDOWN: Line protocol on Interface Port-channel1, changed state to up
```

пингуем

```
C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.2:

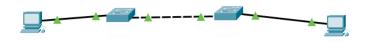
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

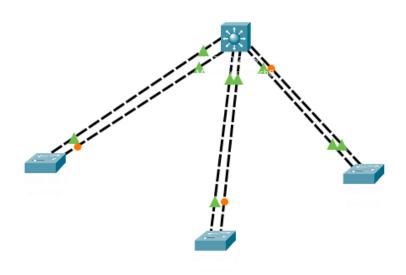
Задание: С помощью CLI в коммутирующем устройстве, отключить один из кабелей между коммутирующими устройствами. Что в итоге меняется?

Нечего не изменилось



ДИНАМИЧЕСКОЕ АГРЕГИРОВАНИЕ КАНАЛОВ (LACP)

построение сети



конфигурацию коммутатора 3560

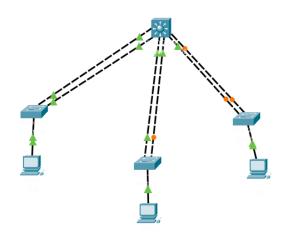
```
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface range fastEthernet 0/1-2
Switch(config-if-range)#channel-protocol lacp
Switch(config-if-range)#channel-group 1 mode active
Switch(config-if-range)#
Creating a port-channel interface Port-channel 1
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
Switch(config-if-range)#wr memory
% Invalid input detected at '^' marker.
Switch(config-if-range)#exit
Switch(config)#wr memory
% Invalid input detected at '^' marker.
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console
Switch#wr memory
Building configuration...
[OK]
Switch#
```

Переходим в консоль Switch0:

```
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface range fa0/1-2
Switch(config-if-range)#channel-protocol lacp
Switch(config-if-range)#channel-group 1 mode passive
Switch(config-if-range)#
Creating a port-channel interface Port-channel 1

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
TOXE Делаем и для двух других
```

подключаем ПК к каждому Switch 2960



пингуем

```
C:\>ping 192.168.1.2
Pinging 192.168.1.2 with 32 bytes of data:
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.2:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.1.3
Pinging 192.168.1.3 with 32 bytes of data:
Reply from 192.168.1.3: bytes=32 time=1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time=1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.3:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 1ms, Average = 0ms
```