Лаб 3 Настройка интерфейсов типа Ethernet

Топология

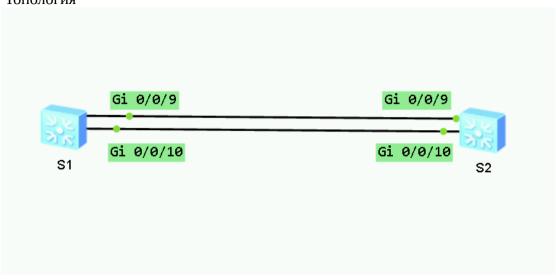


Рис 1.1

Задание

Базовая настройка Ethernet-коммутатора

Режим auto-negotiation включен на интерфейсах коммутаторов Huawei по умолчанию. Интерфейсы с G0/0/9 до G0/0/10 на коммутаторах S1 и S2 должны быть настроены вручную.

Измените имя устройства и выведите информацию о настройках интерфейсов G0/0/9 и G0/0/10 на устройстве S1.

<Huawei>system-view

[Huawei]sysname S1

[S1]display interface GigabitEthernet 0/0/9 GigabitEthernet0/0/9 current state : UP

Line protocol current state: UP

Description:

Switch Port, Link-type: trunk(negotiated),

PVID: 1, TPID: 8100(Hex), The Maximum Frame Length is 9216

IP Sending Frames' Format is PKTFMT_ETHNT_2, Hardware address is d0d0-4ba6-aab0

Current system time: 2016-11-23 14:18:37

Port Mode: COMMON COPPER Speed: 1000, Loopback: NONE

Duplex: FULL, Negotiation: ENABLE Mdi : AUTO, Flow-control: DISABLE

Last 300 seconds input rate 256 bits/sec, 0 packets/sec Last 300 seconds output rate 912 bits/sec, 0 packets/sec

Input peak rate 13976 bits/sec, Record time: 2016-11-22 14:59:12 Output peak rate 13976 bits/sec, Record time: 2016-11-22 14:59:12

Input: 8802 packets, 1242101 bytes

Unicast: 854, Multicast: 7017
Broadcast: 931, Jumbo: 0
Discard: 0, Pause: 0

Frames: 0

Total Error: 0 0 CRC: 0, Giants: Jabbers: 0 0, Fragments: **Runts:** 0. DropEvents: 0 Alignments: 0, Symbols: 0 Ignoreds: Output: 53495 packets, 7626413 bytes 231, Multicast: Unicast: 49564 Broadcast: 3700, Jumbo: 0 Discard: 0, Pause: 0 Total Error: 0 Collisions: 0, ExcessiveCollisions: 0 0, Deferreds: Late Collisions: 0 **Buffers Purged:** 0 Input bandwidth utilization threshold: 80.00% Output bandwidth utilization threshold: 80.00% Input bandwidth utilization: 0% Output bandwidth utilization: 0% [S1]display interface GigabitEthernet 0/0/10 GigabitEthernet0/0/10 current state: UP Line protocol current state: UP Description: Switch Port, Link-type: trunk(negotiated), PVID: 1, TPID: 8100(Hex), The Maximum Frame Length is 9216 IP Sending Frames' Format is PKTFMT_ETHNT_2, Hardware address is d0d0-4ba6-aab0 Current system time: 2016-11-23 14:22:22 Port Mode: COMMON COPPER Speed: 1000, Loopback: NONE Duplex: FULL, Negotiation: ENABLE Mdi : AUTO, Flow-control: DISABLE Last 300 seconds input rate 72 bits/sec, 0 packets/sec Last 300 seconds output rate 1024 bits/sec, 0 packets/sec Input peak rate 14032 bits/sec, Record time: 2016-11-22 14:59:12 Output peak rate 14032 bits/sec, Record time: 2016-11-22 14:59:12 Input: 7025 packets, 786010 bytes 7025 Unicast: 0, Multicast: Broadcast: 0. Jumbo: 0 0, Pause: 0 Discard: 0 Frames: 0 Total Error: CRC: 0, Giants: 0 Jabbers: 0, Fragments: 0

Ignoreds: 0

0, DropEvents:

0. Symbols:

0

0

Runts:

Alignments:

Output: 54507 packets, 7979793 bytes

Unicast: 150, Multicast: 49709 Broadcast: 4648, Jumbo: 0 Discard: 0. Pause: 0

Total Error:

Collisions: 0. ExcessiveCollisions: 0 0. Deferreds: Late Collisions:

Buffers Purged:

Input bandwidth utilization threshold: 80.00% Output bandwidth utilization threshold: 80.00%

Input bandwidth utilization: 0% Output bandwidth utilization: 0%

Установите скорость 100 Mbit/s для интерфейсов G0/0/9 и G0/0/10 на коммутаторе S1. Перед изменением скорости интерфейса, отключите режим auto-negotiation.

[S1]interface GigabitEthernet 0/0/9

[S1-GigabitEthernet0/0/9]undo negotiation auto

[S1-GigabitEthernet0/0/9]speed 100

[S1-GigabitEthernet0/0/9]quit

[S1]interface GigabitEthernet 0/0/10

[S1-GigabitEthernet0/0/10]undo negotiation auto

[S1-GigabitEthernet0/0/10]speed 100

Установите скорость 100 Mbit/s для интерфейсов G0/0/9 и G0/0/10 на коммутаторе S2.

<Quidway>system-view

[Quidway]sysname S2

[S2]interface GigabitEthernet 0/0/9

[S2-GigabitEthernet0/0/9]undo negotiation auto

[S2-GigabitEthernet0/0/9]speed 100

[S2-GigabitEthernet0/0/9]quit

[S2]interface GigabitEthernet 0/0/10

[S2-GigabitEthernet0/0/10]undo negotiation auto

[S2-GigabitEthernet0/0/10]speed 100

Проверьте была ли изменена скорость на интерфейсах G0/0/9 и G0/0/10 на устройстве S1.

[S1]display interface GigabitEthernet 0/0/9 GigabitEthernet0/0/9 current state: UP

Line protocol current state: UP

Description:

Switch Port, Link-type: trunk(negotiated),

PVID: 1, TPID: 8100(Hex), The Maximum Frame Length is 9216

IP Sending Frames' Format is PKTFMT_ETHNT_2, Hardware address is d0d0-4ba6-aab0

Current system time: 2016-11-23 14:29:45

Port Mode: COMMON COPPER Speed: 100, Loopback: NONE

Duplex: FULL, Negotiation: DISABLE Mdi: AUTO, Flow-control: DISABLEчасть вывода пропущена.....

[S1]display interface GigabitEthernet 0/0/10 GigabitEthernet0/0/10 current state : UP

Line protocol current state: UP

Description:

Switch Port, Link-type: trunk(negotiated),

PVID: 1, TPID: 8100(Hex), The Maximum Frame Length is 9216

IP Sending Frames' Format is PKTFMT_ETHNT_2, Hardware address is d0d0-4ba6-aab0

Current system time: 2016-11-23 14:32:53

Port Mode: COMMON COPPER Speed: 100, Loopback: NONE

Duplex: FULL, Negotiation: DISABLE Mdi : AUTO, Flow-control: DISABLEчасть вывода пропущена.....