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Кафедра «Прикладная математика и фундаментальная информатика»

Лабораторная работа №6
по дисциплине «Компьютерные сети»

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Решение

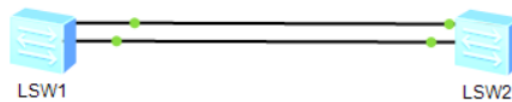


Рис. 1: Схема свитчей

```
<Huawei>
<Huawei>sys
<Huawei>system-view
Enter system view, return user view with Ctrl+Z.
[Huawei]sysname S1
[S1]in
[S1]info-centerEth
[S1]info-centerEt
Dec 28 2022 14:20:53-08:00 S1 DS/4/DATASYNC_CFGCHANGE:OID 1.3.6.1.4.1.2011.5.25.
191.3.1 configurations have been changed. The current change number is 4, the ch
ange loop count is 0, and the maximum number of rec
[S1]int
[S1]interface Eth-T
[S1]interface Eth-Trunk 1
[S1-Eth-Trunk1]mode man
[S1-Eth-Trunk1]mode manual load
[S1-Eth-Trunk1]mode manual load-balance
[S1-Eth-Trunk1]
```

Рис. 2: Установка Eth-Trunk на switch 1

```
<Huawei>sys
<Huawei>system-view
Enter system view, return user view with Ctrl+Z.
[Huawei]sysname S2
[S2]
Dec 28 2022 14:21:23-08:00 S2 DS/4/DATASYNC_CFGCHANGE:OID 1.3.6.1.4.1.2011.5.25.
191.3.1 configurations have been changed. The current change number is 4, the ch
ange loop count is 0, and the maximum number of records is 4095.int
[S2]interface Eth-T
[S2]interface Eth-Trunk 1
[S2-Eth-Trunk1]
```

Рис. 3: Установка Eth-Trunk на switch 1

```
[S1]display eth-trunk 1
Eth-Trunk1's state information is:
WorkingMode: NORMAL          Hash arithmetic: According to SIP-XOR-DIP
Least Active-linknumber: 1    Max Bandwidth-affected-linknumber: 8
Operate status: up           Number Of Up Port In Trunk: 2
-----
PortName                     Status      Weight
GigabitEthernet0/0/1        Up          1
GigabitEthernet0/0/2        Up          1
```

Activate Windows
Go to Settings to activate Windows.

```
[S1]
```

Рис. 4: Схема Eth-Trunk

```
[S2-GigabitEthernet0/0/1]eth-trunk 1
Info: This operation may take a few seconds. Please wait for a moment...done.
[S2-GigabitEthernet0/0/1]
Dec 28 2022 14:23:01-08:00 S2 %01IFNET/4/IF_STATE(1)[0]:Interface Eth-Trunk1 has
turned into UP state.
Dec 28 2022 14:23:03-08:00 S2 DS/4/DATASYNC_CFGCHANGE:OID 1.3.6.1.4.1.2011.5.25.
191.3.1 configurations have been changed. The current change number is 5, the ch
ange loop count is 0, and the maximum number of records is 4095.quit
[S2]interface GigabitEthernet 0/0/2
[S2-GigabitEthernet0/0/2]eth
[S2-GigabitEthernet0/0/2]eth-trunk 1
Info: This operation may take a few seconds. Please wait for a moment...done.
[S2-GigabitEthernet0/0/2]
```

Рис. 5: Trunk connect switch 1

```
[S1]interface Eth-Trunk 1
[S1-Eth-Trunk1]trunk
[S1-Eth-Trunk1]trunkport Gi
[S1-Eth-Trunk1]trunkport GigabitEthernet 0/0/1 to 0/0/2
Info: This operation may take a few seconds. Please wait for a moment...done.
[S1-Eth-Trunk1]
```

Рис. 6: Схема Trunkport

```
[S1-Eth-Trunk1]undo trunkport GigabitEthernet 0/0/1 to 0/0/2
Info: This operation may take a few seconds. Please wait for a moment...done.
[S1-Eth-Trunk1]
Dec 28 2022 14:26:41-08:00 S1 %01IFNET/4/IF_STATE(1)[1]:Interface Eth-Trunk1 has
turned into DOWN state.
Dec 28 2022 14:26:43-08:00 S1 DS/4/DATASYNC_CFGCHANGE:OID 1.3.6.1.4.1.2011.5.25.
191.3.1 configurations have been changed. The current change number is 6, the ch
ange loop count is 0, and the maximum number of records is 4095.
[S1-Eth-Trunk1]mode la
[S1-Eth-Trunk1]mode lacp-static
```

Рис. 7: Trunkport disable