В начало ❭ Мои курсы ❭ Сети и телекоммуникации ❭ Модуль 1. Тесты ❭

Тест по лекции 2. Адресация на канальном уровне (Layer 2 switching)

Тест начат	Суббота, 9 октября 2021, 22:16
Состояние	Завершено
Завершен	Суббота, 9 октября 2021, 22:31
Прошло времени	14 мин. 43 сек.

Вопрос 1

Неверно

Балл: 1,00

The MAC address table of a switch stores mappings between the destination MAC addresses of frames and ports.

Выберите один ответ:

◉ Верно ✖

◯ Неверно

Вопрос 2

Неверно

Балл: 1,00

The MAC address table of a switch is as follows:

00-01-02-03-04-AA G0/0/1

00-01-02-03-04-CC G0/0/3

A data frame with the destination MAC address 00-01-02-03-04-BB is received on G0/0/1, and another data frame with the destination MAC address 00-01-02-03-04-CC is received on G0/0/3. How does the switch process the two data frames?

◉ A.   Forwards the first frame and floods the second frame.   ✖

◯ B.   Floods the first frame and discards the second frame.

◯ C.   Forwards the first frame and discards the second frame.

◯ D.   Floods the first frame and forwards the second frame.

Вопрос 3

Верно

Балл: 1,00

```
<Quidway>display mac-address
-----------------------------------------------------
MAC Address VLAN/VSI Learned-From Type
-----------------------------------------------------
5489-98ec-f018 1/- GE0/0/13 dynamic
-----------------------------------------------------
Total items displayed = 1
```

Refer to the graphic. A switch attempts to forward a frame to the MAC destination 5489-98ec-f011. What operation will occur on the switch?

- A. The switch will drop the frame because it does not have an entry in its MAC address table.
- B. The switch will report that the destination is unreachable and report this to the source.
- ⦿ C. The switch will flood the frame via all ports, with exception of the port on which the frame was received. ✔
- D. The switch will send a request to obtain the MAC address of 5489-98ec-f011.

Вопрос 4

Верно

Балл: 1,00

Host A has been connected to switch A and configured with an IP address. When Host A initially forwards a frame, what action will be taken by Switch A?

- A. Switch A will forward the frame via ports G0/0/1, G0/0/2 and G0/0/3.
- ⦿ B. Switch A will attempt to flood the frame to all ports except for the G0/0/1 interface. ✔
- C. Switch A will drop this frame.
- D. Switch will receive this frame before returning the frame to G0/0/1.

Вопрос 5

Верно

Балл: 1,00

In a destination MAC address, which bit of the address determines whether a frame is sent to a "single" station or a group of stations?

- ⦿ A. 8 ✔
- B. 10
- C. 9
- D. 7

Вопрос 6
Верно
Балл: 1,00

The data forwarding of the switch is based on ( ).

- ○ A. Source IP address
- ○ B. Source MAC address
- ◉ C. Destination MAC address ✔
- ○ D. Destination IP address

Вопрос 7
Верно
Балл: 1,00

Which of the following together with the MAC address of a general L2 switch determines the MAC address table of the L2 switch?

- ◉ A. Port ✔
- ○ B. ARP table
- ○ C. Transmission medium
- ○ D. RARP table

Вопрос 8
Неверно
Балл: 1,00

What describes the working principles of Ethernet Switches?

- ☐ A. Maintain MAC address table with aging mechanism
- ☑ B. Generate MAC address table according to the source MAC address of the received frame ✔
- ☑ C. Layer 3 packet forwarding ✖
- ☐ D. Receive all the data frames in the network segment

Вопрос 9
Частично правильный
Балл: 1,00

Which of the following statements about collision domains and broadcast domains are true?

- ☑ A. All devices connected to the same hub belong to the same collision domain. ✔
- ☑ B. Each port of a router connects to a broadcast domain. ✔
- ☐ C. The Ethernet uses CSMA/CD to avoid collisions in collision domains.
- ☐ D. Each port of a switch connects to a collision domain.

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