

The two core switches have the same MAC address



Overview

Duplicate MAC address conflicts in managed switches occur when two or more devices on the same Layer 2 broadcast domain (VLAN) use the same MAC address. This leads to unpredictable network behavior, including traffic misdelivery, connectivity loss, or persistent ARP table. The thing is, that destination MAC really belongs to existed host connected to another access switch and it was in another VLAN than host where traffic originally traffic is intended for. So, the first Access Switch knew about this MAC from Core switch, so it was in its MAC address table and it was. Core 1 and Core 2 are configured with MLAG (Multi-Chassis Link Aggregation) to handle traffic balancing and redundancy. Each core is supposed to have its own unique bridge MAC address. I manually set them: I'm running MSTP for Spanning Tree, and I've set Core 1 to have a lower STP priority. I am facing a situation where on the core network I have around 15k MAC addresses, and on the edge switches (Access Layer), I am finding switches with 27k MAC addresses. The switches operate with multiple forwarding databases. The. we use vlan 3 as a management vlan to manage around 50 cisco switches. How can this be?

Thanks in advance Thomas Solved! Go to Solution. 08-29-202404:28 AM So if both site use same.



Article Content

two ports on the switch register the same MAC address

mac-address-table static 0300.5e11.1111 vlan 200 interface fa2/3 fa2/4 This command appears to be populating the mac table with the same MAC on two ports (fa2/3 and fa2/4).

Same Mac Address learnt in two different port acce...

I have never used an Extreme switch and I still did not receive one to make a test. I understood that if the switch create different FDB (or Mac Address table) for each VLANs, it should

Duplicate MAC addresses across VLANs

Be aware that attempting to create redundant paths through the use of VLANs causes problems with some switches. One symptom is that a duplicate MAC

Mac address flapping between Interfaces

MAC address flapping in a specific VLAN. Specifically, the MAC address of a desktop in VLAN X on Floor A is inexplicably appearing on the access switches on both Floor B and Floor C,

networking

My machine named debian has two different MAC Addresses. One for Wireless and one for LAN. I thought a device only had a single MAC address.

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Switch uses same MAC address on different interfaces? : r/Cisco

Our C9500s are doing lots of this, constantly reusing MACs between VLAN interfaces. As they're all different L2 domains I don't think there's a real problem with this. However it causes auto-mapping

networking

Several brands of router use the same MAC address for both LAN, WAN, and wifi interfaces. This hopefully doesn't give rise to the problems alluded

VLANs having same mac address causing flapping error

It is absolutely not a problem to have the same MAC address from a device on different VLANs on the same properly-configured switch port. In fact,

Understanding Duplicate MAC Address Conflicts in Managed

Learn about the causes and solutions for duplicate MAC address conflicts in managed switches, ensuring network stability.

CRS317: MLAG on "Core Switches" – Both Cores Using Same MAC,

After rebooting both cores, both switches end up using the same MAC address (Core 1's MAC: 02:00:00:11:22:33), and both are claiming to be the STP root. This is "probably" creating some

duplicate MAC address on two switches

Hi we use vlan 3 as a management vlan to manage around 50 cisco switches. We now found, that two Cisco Catalyst 4500 L3 switches uses the same MAC address (0008.e3ff.fc28) for the

Why Does the Output Show the Same MAC Address Twice in VLANs or Switch

To wrap up, why does the output show the same MAC address twice is a scenario rich in insights about how networking systems manage Layer 2 communication. Whether due to

The same MAC address appeared on multiple ports at the same time

Hi everyone, I have port security configured with a sticky MAC address on all switch access ports? today and at the same second, I found that multiple ports get shut down due to MAC

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ITPro Today, Network Computing and IoT World Today have combined with TechTarget . The page you are looking for may no longer exist.

networking

0 Two ip addresses on same computer and switch behavior Say I assign two IP addresses to same network card. Since there is only one network card, there is only one MAC address. If some

What is the least possible separation of two NICs with the ...

Suppose you have two NICs with the same MAC address, but not necessarily the same IP address. What is the least possible separation (in terms of number of switches, routers, different

Two same mac address learning on single port

MAC flapping occurs when the switch receives frames with the same source MAC address on different ports or VLANs in a short period of time, leading to continuous updates in its MAC

When A Switch Meets Two Twin IP addresses

What will send a switch into a frenzy is a loop, plug the same cable into two ports and at that point the switch sees the same mac addressees down two links and all hell breaks loose.

Is it possible that many ports of a switch to have the same MAC address ...

In no case does a properly working switch associate multiple ports with the same MAC. Accordingly, a frame addressed to a specific MAC address is always forwarded out of the last switch

Can Two Devices Have the Same MAC Address?

Can Two Devices Have the Same MAC Address? Explore whether MAC addresses are truly unique, what causes duplicate MAC addresses, and

Duplicate MAC addresses across VLANs

While the switches have multiple forwarding databases and thus do not have this problem, some switches with a single forwarding database for all VLANs may

Communication through Multiple Switches

Communication through multiple switches is similar to communication through one switch. This article illustrates exactly how it works using two switches.

Contact Us

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