

Core switch ARP table incomplete



Overview

ARP table issues can lead to network connectivity problems, packet loss, slow performance, or even security vulnerabilities like ARP spoofing. This step-by-step guide will help you identify and fix ARP table issues by clearing and updating the ARP cache to restore proper network. What can cause incomplete arp table for a fast ethernet connection on a cisco router?

If the device connected to the cisco is connected but power off or in standby, would cisco issue an incomplete arp or would it remove the arp from the table completely?

Thanks 10-13-2007 05:20 PM Dan Perhaps there. What are the reasons for seeing an incomplete ARP?

As was mentioned in this post: The reason for seeing an incomplete ARP is that "An ARP request was sent for that address, but the host with that address is not up and running on the LAN, so there is no reply" So, if a multilayer switch sends an ARP. The Address Resolution Protocol (ARP) is essential for mapping IP addresses to MAC addresses, enabling seamless communication in a local network. This. If the MAC ADDRESS field of an ARP entry in the display arp command output displays Incomplete, the ARP entry is temporary. When IP packets trigger ARP Miss messages, the switch generates temporary ARP entries based on the ARP Miss messages, and sends ARP request packets to the destination network. At a rough guess this is a vlan issue. The arp table shows multiple subnets attached to vlan 20. it also shows IP addresses in vlan 20 that match your gig0/0 routed interface - which should not be possible. Is the firewall directly connected to gig0/0 ?

Gi0/2 is showing as using vlan 1 but it seems. Incorrect or out-of-date entries in the...

Article Content

Feb 20, 2026

Cisco Incomplete ARP Table : r/networking

There is an incredible amount of ARP broadcastg chatter being sourced by the VLAN interface that acts as the gateway for our customers. The ARP requests are all destined for IPs that are being marked

Dec 28, 2025

Incomplete ARP entries : r/Cisco

Incomplete ARP entries Hello smart people, I've got two switches trunked together and two devices on same VLAN on switch B. From the host switch (B), I can ping both devices. From remote switch (A), I

Oct 11, 2025

Packets are not being forwarded due to incomplete entries in the ARP table

If the switch ports connected to the source and destination devices are part of different VLANs, then the frames including ARP reply and request will not be forwarded between them. L2

Sep 10, 2025

ARP announcement does not refresh the ARP on core switch

Then I have to manually clear the arp cache on core switch, only by which scanner B can works right away. And then if I reconnect scanner A back to the port with the same IP, the same

Aug 31, 2025

Procurve ARP Table

We have many Procurve switches, seems like only our core switches have an ARP table, the other only have one entry, the gateway. They used to have them, not sure what happened, any

Mar 05, 2026

Incomplete ARP Entrirs Don't Expire : r/networking

An incomplete ARP entry means something is sending traffic to that IP address and the switch is trying to resolve it to a MAC address. So even if you clear the ARP entries, if there is something trying to

Aug 21, 2025

Fix ARP Table Issues: Step-by-Step Guide

ARP table issues can lead to network connectivity problems, packet loss, slow performance, or even security vulnerabilities like ARP spoofing. This step-by-step

Jul 15, 2025

Blank ARP failure (not displaying information) RouterOS 7 version

Hello, I'm having difficulty displaying the ARP table information, which is showing blank. This issue started after updating the routers from version 6 to version 7. Each version 7 update has

Feb 07, 2026

Causes of Incomplete ARP

It will send out ARP requests for the IP address in question and will wait for a reply. If reply is not received, an incomplete ARP entry is shown. Eventually it also times out and you get an empty ARP

Apr 06, 2026

Solved: Incomplete ARP

If you see "Incomplete" against an entry in the ARP table, it means that the router has issued an ARP request and has not had a response. These

Sep 07, 2025

ARP (Address Resolution Protocol) explained

This lesson explains Address Resolution Protocol (ARP) to you. Network devices use ARP to find the MAC address of the IP address they want to reach.

Jul 28, 2025

Solved: Incomplete MAC in ARP table

EDIT: Hi, the issue was resolved, i was using DHCP snooping and it was not working just fine, I reconfigured it and it works perfectly now. Thanks

May 17, 2026

ARP incomplete during L3 migration to new L3 switch

Once I try and move the final routing piece, static routing, I get everything working except most of the access switches, L2 switches, that hang off the new L3 core switch are giving "incomplete

Jan 22, 2026

ARP Commands

To display information about detailed ARP table, use the `show ip arp detail` command. For command descriptions, see the Cisco Nexus 7000 Series Switches Command References. Note: This sample

May 25, 2026

wrong mac address tied to IP address in switch arp

The arp table shows multiple subnets attached to vlan 20. it also shows IP addresses in vlan 20 that match your gig0/0 routed interface - which should not be possible.

May 01, 2026

ARP table shows incomplete entry and connectivity lost

"incomplete" entries occur when the system hasn't yet learned the MAC address associated with a particular IP address. You can use ARP Probe

Feb 19, 2026

Troubleshooting with ARP Information

Incorrect or out-of-date entries in the ARP table can cause network issues. While the ARP cache cannot be manipulated directly, the ARP table information can give you an idea of where to find a specific

Sep 01, 2025

arp table is incomplete

Hi I got an problem with an connection between an 4500 router and several 2950 catalyst switches. When i give the command: "sh arp" on my router, there are ip addresse with an incomplete

Jul 10, 2025

2810-24g

They rebooted the switch and it resolved the issue, leading them to think it was an issue with an incomplete ARP table. The issues from earlier have now reoccurred with networks that were not

Feb 18, 2026

What are the reasons for seeing an incomplete ARP?

When a host, including a router or the routing module in a layer-3 switch, sends

Nov 10, 2025

Incomplete ARP Entry

Hello, I have a Cisco router trying to communicate to a remote host on the Internet through our gateway Router. Both routers are on the same subnet. We kept having intermittent

Nov 20, 2025

Catalyst 6500/6000 Switches ARP or CAM Table Issues Troubleshooting

This document provides information on how to troubleshoot Address Resolution Protocol (ARP) or Content Addressable Memory (CAM) table-related issues on Catalyst 6500/6000 Switches.

Jan 15, 2026

Troubleshooting Incomplete Adjacencies with CEF

Introduction Network nodes in the network are considered adjacent if they can reach each other with a single hop across a link layer. This document provides tips on how to troubleshoot incomplete

Jul 19, 2025

SH ip arp incomplete issue

When you do a sh int arp, you see the layer 3 IP address. You also see an "incomplete" next to the IP address, instead of the layer 2 MAC address. What incomplete mean?? How to resolve

Sep 02, 2025

What Does Incomplete in an ARP Entry Mean?

What Does Incomplete in an ARP Entry Mean? If the MAC ADDRESS field of an ARP entry in the display arp command output displays Incomplete, the ARP entry is temporary.

Contact Us

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