

Packet loss when H3C is connected to a switch



Article Overview

Packet loss on H3C switches can result from interface congestion, spanning tree protocol interference, misconfigured traffic shaping, or wireless network issues, and requires systematic troubleshooting.

Common Causes

- **Interface Congestion:** When traffic exceeds the bandwidth of an interface, packets may be discarded, especially during bursts or when multiple services share the same interface. This can occur on both unicast and multicast traffic, affecting service quality for users and devices connected downstream .
- **Spanning Tree Protocol (STP) Interference:** In scenarios where H3C switches are connected to other switches (e.g., Huawei S12708), a large number of BPDUs can cause packet loss. Disabling STP on directly connected aggregated interfaces has been shown to resolve unidirectional packet loss issues .
- **Wired and Wireless Network Issues:** For WLAN clients, packet loss may be caused by air interface instability, interference, or misconfigured access points. Even with normal air interface usage, irregular packet loss below 3% is considered acceptable .
- **Hardware or Media Problems:** Faulty optical modules, cables, or interface cards can contribute to packet loss. However, in many cases, replacing media does not resolve the issue if the root cause is protocol or congestion-related .

Troubleshooting Steps

- **Check Physical Connectivity:** Verify cables, optical modules, and interface status. Ensure no loops or hardware faults exist

Article Content

H3C Switch Command Mastery: Streamlined Configuration

In today's fast-paced network environments, H3C switches form the backbone of enterprise connectivity. While many administrators

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Execute the display packet-filter command to check whether the packet filter is configured correctly. If there are any configuration

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When you contact H3C Support, provide the following diagnostic information if packet loss occurs on the chip port with which the

Troubleshooting Cases for Packet Loss on the Network

Case Study: Packet Loss Occurs When the Number of Packets from the Access Switch to the Aggregation Switch Is Greater Than

Troubleshooting Cases for Packet Loss on the Network

Troubleshooting Cases for Packet Loss on the Network Case Study: A Few Packets Are Dropped 2 Minutes After the Multicast

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When you contact H3C Support, provide the following diagnostic information if packet loss occurs on the chip port with which the

H3C S5830 Switch Series Configuration Examples

In multicast trigger mode, the switch multicasts a large number of Identity EAP-Request packets periodically to the host,

How to Troubleshoot a LAN Switch That Drops Packets

Learn the steps to troubleshoot a LAN switch that is dropping packets and how to resolve common issues. Find out how to use tools

03-H3C Wireless Client Packet Loss Troubleshooting Guide

Troubleshooting procedures Testing the packet loss ratio of the wireless client Identify whether the packet loss on the network is

Troubleshooting Guidelines for Network Packet Loss

The preceding sections describe the causes of packet loss on the network where S series switches are deployed. This section

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Page 30: Fan Failure DisPkt_All—Number of discarded packets. Rcv_All—Number of received packets. RcvPps—Packet receiving

What causes my packet loss: network switch or ethernet cable?

So, the internet activity of all 6 apartments goes through a single cable between switch and modem. I myself live in one

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To free hardware resources for packet filtering or QoS classification, remove unused ACLs. If the issue persists, contact H3C Support.

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What is packet loss in a network? Learn the causes & solutions for packet loss, along with tips for diagnosing and resolving issues to

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As shown in Figure 20, the core switch acts as the gateway, the AC is attached to the core switch, and the AP is connected to the

01-09 TROUBLESHOOTING NETWORK PACKET LOSS

The preceding sections describe the causes of packet loss on the network where devices are deployed. This section describes the

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.gmarkconstruction.co.za>

Email: sales@gmarkconstruction.co.za

Phone: +31-6-15-38-72-94

Address: Herengracht 456, 1017 BS Amsterdam, Netherlands

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