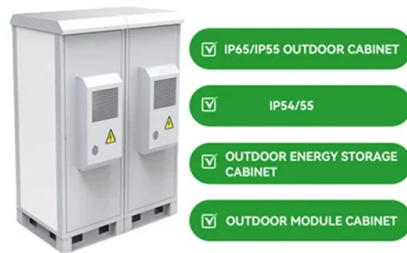


Access Switch IPv6



AI Overview

IPv6 access on switches is managed using IPv6 Access Control Lists (ACLs) to filter traffic based on source, destination, and protocol, ensuring secure and controlled network operations.

Overview of IPv6 Access Control

IPv6 ACLs allow switches to permit or deny IPv6 traffic traversing their interfaces. Each ACL contains one or more Access Control Entries (ACEs) specifying criteria for forwarding or dropping packets. Unlike IPv4, IPv6 ACLs are named rather than numbered, and IPv4 and IPv6 ACLs operate independently—they cannot share the same ACL or ACE configuration. ACLs can filter traffic inbound or outbound on a specific interface, and extended IPv6 ACLs can also filter based on upper-layer protocol information such as TCP/UDP ports for finer control.

Key IPv6 Features Affecting Access

- Global and Link-Local Addresses: Every interface has a globally routable IPv6 address and a link-local address for neighbor discovery and routing.
- Neighbor Discovery Protocol (NDP): Replaces ARP in IPv4 and uses ICMPv6 messages to discover neighbors and routers.
- SLAAC and DHCPv6: Clients can auto-configure addresses via SLAAC or receive stateful configuration via DHCPv6. These features influence ACL design, as traffic filtering must account for link-local communications, router advertisements, and neighbor discovery messages....

Article Content

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Configuring IPv6 Client IP Address Learning

Client Address Learning is configured on switch to learn the wireless client's IPv4 and IPv6 address and clients transition state

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Consolidated Platform Configuration Guide, Cisco IOS XE 15.2 (5)E ...

The IPv6 PACL feature provides the ability to provide access control (permit or deny) on Layer 2 switch ports for IPv6 traffic. IPv6

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Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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Introduction Introduction Accessing your network switch is essential for managing and

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IPv6 Configuration

The Internet Protocol version 6 (IPv6) is a network-layer protocol for packet-switched internet works. IPv6 was designed to replace

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Example for Configuring External IPv6 Portal Authentication (Using the ...

This document describes the configurations of User Access and Authentication Configuration, including AAA, NAC,

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Rule-3. Permits IPv6 HTTP traffic to any destination. For more information, see the following support articles: What are

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Cisco IOS IPv6 Configuration Guide

The IPv6 for Cisco IOS Software feature documentation provides implementation and command reference information for IPv6

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How to Enable or Disable IPv6 in Windows 10 and 11

This means that each device has a distinct IP, which could potentially be used to track users across the internet over

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Switch Your Network To IPv6

As noted earlier, other devices on your network, such as switches, access points, and internal network

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Overview of Access Control List

This chapter describes how to configure, apply, and edit static IPv6 ACLs for filtering IPv6 traffic in a network populated with the

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-Configuring IPv6 Unicast Routing

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IPv6 Device Compatibility

Cisco Meraki Switches can pass IPv6 traffic, as well as report information on clients using IPv6. Switch clients' IPv6

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Configuring IPv6 ACL

You can create both IPv4 and IPv6 ACLs on a switch or switch stack, and you can apply both IPv4 and IPv6 ACLs to the same

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How do I configure an IPv6 Access Control List (ACL) using CLI

What are Access Control Lists (ACLs) and how do they work with my managed switch?
How do I configure IPv6 Access

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IPv6 Addressing and Basic Connectivity Configuration Guide ...

IPv6 traffic forwarding can be enabled globally, and Cisco Express Forwarding switching for IPv6 can also be enabled.

Contact Us

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