

# Switch blocks IP access



## Overview

Learn how to verify if Ethernet/IP traffic is blocked on a Cisco Layer 3 switch due to an improperly configured access control list (ACL), including identifying traffic characteristics, inspecting ACLs, checking hit counters, testing traffic flow, debugging, and endpoint. Learn how to verify if Ethernet/IP traffic is blocked on a Cisco Layer 3 switch due to an improperly configured access control list (ACL), including identifying traffic characteristics, inspecting ACLs, checking hit counters, testing traffic flow, debugging, and endpoint. There is a DMP receiver on our network that is receiving messages predictably one hour a week. I believe the messages are coming from a panel on our network. I attempted to Factory reset a VVX300 and 500 and neither would pull an IP via DHCP from behind the switch, but if I connected to via an access point (ran through the same switch) the phones can pull an IP address. Both. In this article, I'll walk you through the steps to configure access profiles and profiles rules for your Cisco switch. For example, you can restrict access to SSH. You can use IP source guard (IPSG) to prevent traffic attacks if a host tries to use the IP address of its neighbor and you can enable IP source guard when DHCP snooping is enabled on an untrusted interface. We have some devices (security cameras, security keypads, backup/archival servers) that need to have internet access (IoT-style dashboards, updates, etc) but I need to restrict access to specific VLANs.

## Article Content

Mar 19, 2026

Why would a managed switch block DHCP?

For some reason my managed switch is blocking DHCP to my Polycom phones. I attempted to Factory reset a VVX300 and 500 and neither would pull an IP via DHCP from behind

Jul 28, 2025

Switch ACLs: how to config ACL to permit internet access but restrict ...

We have some devices (security cameras, security keypads, backup/archival servers) that need to have internet access (IoT-style dashboards, updates, etc) but I need to restrict access to

Jan 24, 2026

Solved: Access list to restrict certain IPs

There is a switch which is connected the cisco router and all the workstations on the LAN connect to that switch. The cisco router is the gateway with an IP of 192.168.1.254 and we have

Dec 08, 2025

Denying Static IP hosts from gaining Access To Network

Hi Everybody, I am new to networking and I am trying to block any device with a static IP from accessing the network and the internet. The network is a camp network where I have the

Nov 21, 2025

IP address blocking | Purpose, Bypassing, & Pros and Cons

IP address blocking, configuring a network to refuse requests sent from specific IP addresses. IP addresses are blocked for multiple reasons, including to enforce standards for online behavior (e.g.,

Jul 02, 2025

TCP blocking IP Address

I used wire shark and I have a suspected IP address these messages are originating from. I would like to block all traffic from the suspected IP address. I have the receiver IP address

Feb 21, 2026

Configure IPv4-based Access Control List (ACL) and

Objective An Access Control List (ACL) is a list of network traffic filters and correlated actions used to improve security. It blocks or allows users to

Feb 16, 2026

How to block an illegal client with Certain IP address

In the network,we want to block the illegal Client whose IP address is 172.30.30.105/24 from getting access to the network,but we do not know which

Jan 12, 2026

What's the best way to block IP spoofing on a layer 3 switch?

We're hosting Dedicated Servers and are currently using old 3com switches with IP-based ACLs. So each port has an ACL that allows all IP addresses assigned to this customer, and blocks everything e...

May 31, 2026

Deny IP Address External to Cisco 3750 Switch

Block web traffic on network segment Networking general-networking, question 4 89  
June 16, 2020 only permit specific ip address on a switch port Networking general-networking, question

Feb 27, 2026

Security Configuration Guide, Cisco IOS XE 17.16.x (Catalyst 9300

After IPSG is enabled on an interface, the switch blocks all IP traffic received on the interface except for DHCP packets allowed by DHCP snooping. The switch uses a source IP lookup

Jan 30, 2026

Restrict Access to Cisco Switch Based on IP Address

We will provide a step-by-step guide on how to configure access control lists (ACLs) on a Cisco switch to allow or deny access based on the source IP address of incoming traffic. We will also

May 26, 2026

Switch ACLs: how to config ACL to permit internet access but restrict ...

Hi, all! Environment is L3 switches (HP Procurves) behind Sonicwall firewalls; VLANs isolated for purpose. We have some devices (security cameras, security keypads, backup/archival

May 21, 2026

## Securing the network by using IP access control lists

If you want to be taken seriously as a Cisco network administrator, you have to know how to configure your switches and routers to restrict IP traffic according to those requirements. The most common

Mar 22, 2026

## Block IP Addresses: Methods and Best Practices

An IP address identifies a device on a network. In some cases, you need to block an IP address to stop unwanted access, reduce spam, prevent attacks, or limit resource abuse. Blocking

May 21, 2026

## Access list

Solved: I have a layer 3 switch, 3550. I have several vlans on there just for playing around with. One of the vlans, has a vonage linksys box attached to it with a UK number attached. From

Apr 16, 2026

## ACL to block Internet Access from specific vlan

Hi, Please help with Access list on the Internet Router restricting Internet access from specific vlan to specific destination and allowing complete

Jun 10, 2026

## Prevent unauthorized users from gaining network access?

Just curious: How do people "lock down" their network to prevent unauthorized devices from gaining network access? Is it different in a DHCP vs. static IP network? What about Windows AD managed? ...

Mar 20, 2026

## What are IP access control lists (ACLs) and how do they work with my ...

What are IP access control lists (ACLs) and how do they work with my NETGEAR Smart Switch or fully managed switch? IP ACLs are Layer 3 ACLs. An IP ACL rule specifies whether the

Aug 23, 2025

## Solved: Access list to restrict certain IPs

I have tried to reading through a lot of cisco tutorials on this subject of ACL, but I haven't come across one that defined a block range of IPs. I would appreciate it if someone would give me

Dec 27, 2025

How to block one subnet for accessing internet through access list ...

Hello, I would like to know how to block one subnet for accessing internet through access list in cisco layer 3 switch. I have one cisco layer 3 switch and there are 5 vlans and SVIs have been

Jan 07, 2026

Solved: Block a Single IP address

Hello everyone, I seem to have a rogue DHCP server on the network and have not been able to locate it. The switch shows it connected to switchport Po1, which I believe is the

Feb 07, 2026

Confirming Ethernet/IP Traffic Blockage on Cisco Switch

Learn how to verify if Ethernet/IP traffic is blocked on a Cisco Layer 3 switch due to an improperly configured access control list (ACL), including identifying traffic characteristics, inspecting

Jul 23, 2025

How to configure Access Control to block users' access

You can configure Access Control to allow only specific users to access the switch and block the others. Access Control can work in three modes:

Mar 20, 2026

How to block an IP from reaching a switch. (hardware solution)

If the switch has an ACL ability, set up a rule to block that IP, but to allow everything else from your LAN subnets. If the switch can not do either of these buy a hardware firewall (make sure it

Jan 18, 2026

Configuring IP Source Guard

The switch uses a source IP lookup table in hardware to bind IP addresses to ports. For IP and MAC filtering, a combination of source IP and source MAC lookups are used. IP traffic with a source IP

Oct 06, 2025

Solved: Block rdp access on my switch

To negate RDP from a host on the network the access-list has to be on a routed (L3) interface of the device performing the routing, The L3 interface on a L2 switch is just for mgt access

Dec 07, 2025

Deny Internet Access from all VLAN's except 1 from L3

1x Stratix 5410 (Cisco IE 4010) Layer 3 switch as Core Switch (ESXC101) Several Stratix 5700 (Cisco IE 2000-series) L2 Switches (ESXM1101,

Sep 21, 2025

Restrict Access to Cisco Switch Based on IP Address

After a lot of testing and several posts to the Cisco forums, I figured it out! In this article, I'll walk you through the steps to configure access profiles and

## Contact Us

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