

# Huawei core switches implement ACL control



## Overview

In this lesson, we will show Basic Access Lists (Basic ACLs) and Advanced Access Lists (Advanced ACLs) with specific examples. You can also check Huawei Configuration Course for Hands on Experience on Huawei . This document describes the configurations of Security, including ACL, local attack defense, MFF, attack defense, traffic suppression and storm control, ARP security, Port security, DHCP snooping, ND snooping, PPPoE+, IPSG, SAVI, URPF, keychain, MPAC, separating the management plane from the. You can use network ACL s to control the traffic in and out of subnets. When both security groups and network ACL s are configured, traffic matches network ACL rules first and then security group rules. You can add security group rules as required and use network ACL s as an additional layer of. 2. 1 Overview of ACLs Definition Access Control Lists (ACLs) filter packets based on an ordered set of rules that define the packet filtering conditions, such as the source address, destination address, and port number of packets. First of all, let's remember the Access List types. An ACL filters packets based on rules.



## Article Content

Mar 05, 2026

What Is Access Control List (ACL)? How Is It Used?

An access control list (ACL) is a collection of one or more rules that can be used to ensure network security.

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Typical ACL Configuration

If you only need to filter packets based on source IP addresses, you can configure a basic ACL. In this example, a basic ACL is applied to the FTP module to allow only the specified clients to access the

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Access Control List example (Huawei)

A rule is identified by a rule ID, which can be set by a user or automatically generated based on the ACL step. All rules in an ACL are arranged in ascending order of rule IDs.

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Network ACL Configuration Examples\_Network ACL\_Access

You can add security group rules as required and use network ACL s as an additional layer of protection for your subnets. The following provides some examples on how network ACL s

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Network ACL Overview\_Network ACL\_Access

Network ACL A network ACL is an optional layer of protection for your subnets. After you add inbound and outbound rules to a network ACL and

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01-03 ACL CONFIGURATION

An Access Control List (ACL) is a set of rules that classify packets into different types. This chapter explains how to configure an ACL on a Switch to filter packets.

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Introduces the basic ACL rules and matching mechanism, and provides an example of configuring ACL to implement access control.

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### Example for Using Reflective ACL to Implement Unidirectional Access Control

In this example, an advanced reflective ACL is used to prevent the servers on the Internet from actively establishing UDP connections with internal hosts before the internal hosts connect to the external

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### Configuring and Applying a Basic ACL

Context By default, an ACL takes effect immediately after it is applied to a service module. If you want the ACL rules to take effect only in a certain period, you can define a time range and associate the

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### Example for Using Advanced ACLs to Implement Unidirectional

Configure an advanced ACL and ACL-based traffic classifier to restrict ICMP and TCP services so that unidirectional access from the president's office to the employee's office can be implemented.

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### ACLs Supported by Switches and Common Matching Conditions

ACLs Supported by Switches Huawei switches support ACLs for filtering IPv4 packets, ACL6s for filtering IPv6 packets, and Layer 2 ACLs and user-defined ACLs that can filter both IPv4 and IPv6

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### What Is an Access Control List (ACL)

Definition An Access Control List (ACL) is a packet filter that filters packets based on rules. One or more rules describe the packet matching conditions, such as the source address, destination address, and

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### Configuring an Advanced ACL

To implement unidirectional access control on a network segment, configure rules in an ACL. For example, to implement unidirectional access control on network segment 192.168.2.0/24, configure

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### How Can I Apply an ACL to an Interface?

How Can I Apply an ACL to an Interface? An ACL cannot be directly applied to an interface. You can use either of the following methods to associate an ACL with a service module (traffic policy or

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ACLs Supported by Switches and Common Matching Conditions

Common Matching Conditions Switches support various ACL matching conditions. The following describes the commonly used conditions.

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Huawei Access-Lists | Huawei ACL Configurations \*

In this lesson, we will show Basic Access Lists (Basic ACLs) and Advanced Access Lists (Advanced ACLs) with specific examples. Let's firstly start with Basic Access

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01-02 ACL CONFIGURATION

ACLs Supported by Switches Huawei switches support ACLs for filtering IPv4 packets, ACL6s for filtering IPv6 packets, and Layer 2 ACLs and user-defined ACLs that can filter both IPv4 and IPv6

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Typical ACL Configuration

Typical Security Configuration Typical ACL Configuration Example for Using an ACL to Restrict FTP Access Rights Example for Using ACLs to Control Access to the Specified Server in the Specified

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Network ACL Overview\_Network ACL\_Access

To control the traffic from the Internet to an ECS with an EIP bound, you only need to set the destination in a network ACL rule to the private IP

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Huawei ACL Configuration in eNSP | Step-by-Step IP Filtering Tutorial

📺 In this video, I'll walk you through how to configure Access Control Lists (ACLs) on Huawei routers using eNSP — from concept to full implementation. You'll...

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How to configure Access Control List (ACL) on Huawei

📺 Welcome to our Huawei Networking Tutorial Series! 📺 Enhance your network security with Access Control Lists (ACL) on Huawei switches! 📺 In this tutorial, you'll learn how to configure...

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S600-E Series Switches Typical Configuration Examples

Example for Using an ACL to Prevent Internal Hosts from Accessing the Internet ACL Overview An Access Control List (ACL) consists of one rule or a set of rules that describe the packet

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01-02 ACL CONFIGURATION

To achieve this, on Interface 1 of the switch, apply an ACL on the inbound direction so that the packets from the R& D department to the finance server are denied on the interface. On Interface 2, apply no

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Example for Using ACLs to Restrict Mutual Access Between Network ...

Example for Using ACLs to Restrict Mutual Access Between Network Segments ACL Overview An Access Control List (ACL) consists of one rule or a set of rules that describe the packet

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01-02 ACL CONFIGURATION

Access Control Lists (ACLs) filter packets based on an ordered set of rules that define the packet filtering conditions, such as the source address, destination address, and port number of packets. An

## Contact Us

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