

IP ACL Application Commands

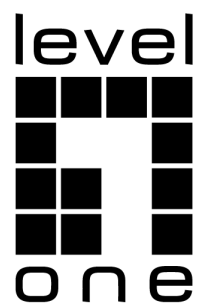


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Chapter 1 IP ACL Application Commands

1.1 Configuration Commands for Applying IP ACL

The commands for applying the IP Access Control List (ACL) are shown below:

- `ip access-group`

1.1.1 `ip access-group`

Syntax

You can use this command to apply the established IP ACL to an interface or globally or cancel the applied IP ACL on an interface or globally.

To apply a created IP ACL on a port, run the following command:

[no] ip access-group *name* [egress][stat-packet | stat-byte]

To apply a created IP ACL globally, run the following command:

[no] ip access-group *name* [egress | vlan {*word* | *add* | *remove*}] [stat-packet | stat-byte]

You can use this command to apply the established IP ACL to an interface or globally or cancel the applied IP ACL on an interface or globally.

Parameter

Parameter	Description
<i>name</i>	Stands for the name of access list.
egress	The access list is applied in the egress.
Vlan	The access list is applied to the ingress VLAN
<i>word</i>	Stands for the VLAN range table.
<i>add</i>	Addes VLANID to current configuration list
<i>remove</i>	Removes VLANID from current configuration list
stat-packet	Statistics based on the number of packets
stat-byte	Byte-based statistics

Command mode

Global or port configuration mode

Usage guidelines

Most of the rules in the ACL are implemented by hardware, and the non-supported rules does not prompt an error, but has no actual effect; a small amount, such as time-range, is implemented by software.

Note:

The IPv4 standard ACL supports the following rules:

any: means any source IP address.

source-addr source-mask: means matching up the source address.

reverse-mask source-addr source-mask: means to use the reverse source address for match-up.

The IPv4 extended ACL supports the following rules:

any: means any IP address.

ip-protocol: means the IP protocol ID.

ip-addr ip-mask: means IP address match-up.

Interface *interface-id*: means layer-3 interface match-up.

eq/gt/lt/neq/src-portrange/dst-portrange: *tcp/udp*: means port ID match-up.

totalen: means the length match-up of IP packets.

established/tos/is-fragment/not-fragment/precedence/ttl/offset-not-zero/offset-zero/donotfragment-set/ donotfragment-notset/icmp-type: means field match-up, among which **t***tl* must be set to **e***qual*.

tos: means the tos priority match-up

cos: means the cos priority match-up

precedence: means the precedence priority match-up

time-range: effective time configuration

Example

The following example shows how to apply the ACL filter at the ingress direction of interface g0/0/1.

```
Switch(config)#interface g0/0/1
```

```
Switch(config-g0/0/1)# ip access-group filter
```