



QTECH
МИР ДОСТУПНЕЕ

IP ACL APPLICATION CONFIGURATION COMMANDS

IP ACL Application Configuration 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
- ipv6 access-group

1.1.1. ip access-group

Syntax

To designate an access group, run the **ip access-group**. To cancel the designated access group, run **no ip access-group**.

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

[no] ip access-group name [egress]

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

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

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 IP ACL. |
| egress | Applies the ACL in an outbound direction. |
| Vlan | Applies the ACL in an inbound VLAN. |
| <i>Word</i> | Stands for the VLAN range table. |
| add | Adds VLANID. |
| remove | Cancel VLANID. |

Command mode

Global or port configuration mode

Usage guidelines

Most rules in the ACL take effect through hardware; those that hardware does not support give no errors but they have no actual effects; a few rules such as time-range take effect through 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 source-mask: means IP address match-up.

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

eq/gt/lt/src-portrange: means TCP/UDP 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 *ttl* must be set to equal.

time-range: configures effective time

Example

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

```
Switch_config#inter g0/1
```

```
Switch_config_g0/1# ip access-group filter
```

1.1.2. ipv6 access-group**Syntax**

To designate an access group, run the **ipv6 access-group**. To cancel the designated access group, run **no ipv6 access-group**.

To apply a created IPv6 ACL on a port, run the following command:

```
[no] ipv6 access-group name [egress]
```

To apply a created IPv6 ACL globally, run the following command:

```
[no] ipv6 access-group name [egress | vlan {word | add | remove}]
```

You can use this command to apply the established IPv6 ACL to an interface or globally or cancel the applied IPv6 ACL on an interface or globally.

Parameter

| Parameter | Description |
|---------------|--|
| <i>name</i> | Stands for the name of IPv6 ACL. |
| egress | Applies the IPv6 ACL in an outbound direction. |
| Vlan | Applies the IPv6 ACL in an inbound VLAN. |
| <i>Word</i> | Stands for the VLAN range table. |
| add | Adds the VLANID. |
| remove | Cancels the VLANID. |

Command mode

Global configuration mode or port configuration mode

Usage guidelines

Most rules in the ACL take effect through hardware; those that hardware does not support give no errors but they have no actual effects; a few rules such as time-range take effect through software.

Note:

The IPv6 ACL supports the following rules:

any: means any IPv6 address.

ipv6-addr/host ipv6-addr: means IPv6 address match-up.

ipv6-protocol: means the IPv6 protocol ID.

eq/gt/lt/src-portrange: means TCP/UDP port ID match-up.

dscp/flow-label: means field match-up.

time-range: configures effective time

Example

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

```
Switch_config#inter g0/1
```

```
Switch_config_g0/1# ipv6 access-group filter
```