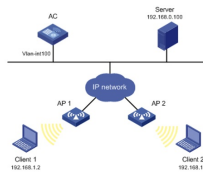


# h3c Time range configuration User Manual



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## Configuring time ranges

### About time ranges

You can implement a service based on the time of the day by applying a time range to it. A time-based service takes effect only in time periods specified by the time range. For example, you can implement time-based ACL rules by applying a time range to them.

The following basic types of time ranges are available:

- Periodic time range—Recurrs periodically on a day or days of the week.
- Absolute time range—Represents only a period of time and does not recur.

The active period of a time range is calculated as follows:

1. Combining all periodic statements.
2. Combining all absolute statements.
3. Taking the intersection of the two statement sets as the active period of the time range.

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## Restrictions and guidelines: Time range configuration

When you configure the ACL hardware mode, follow these restrictions and guidelines:

- If a time range does not exist, the service based on the time range does not take effect.
- You can create a maximum of 1024 time ranges, each with a maximum of 32 periodic statements and 12 absolute statements.

## Procedure

1. Enter system view.  
system-view
2. Create or edit a time range.  
time-range time-range-name { start-time to end-time days [ from time1 date1 ] [ to time2 date2 ] | from time1 date1 [ to time2 date2 ] | to time2 date2 }  
If an existing time range name is provided, this command adds a statement to the time range.

## Display and maintenance commands for time ranges

Execute the **display** command in any view.

Task  
Display time range configuration and status.

Command  
display time-range { time-range-name | all }

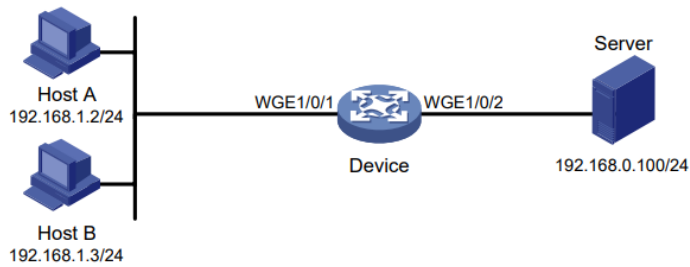
## Time range configuration examples

**Example:** Configuring a time range

### Network configuration

As shown in Figure 1, configure an ACL on the device to allow Host A to access the server only during 8:00 and 18:00 on working days from June 2015 to the end of the year.

**Figure 1 Network diagram**



## Procedure

# Create a periodic time range between 8:00 and 18:00 on working days from June 2015 to the end of the year.

<Device> system-view

[Device] time-range work 8:0 to 18:0 working-day from 0:0 6/1/2015 to 24:00 12/31/2015

# Create an IPv4 basic ACL numbered 2001, and configure a rule in the ACL to permit packets only from 192.168.1.2/32 during the time range work.

[Device] ACL basic 2001

[Device-acl-ipv4-basic-2001] rule permit source 192.168.1.2 0 time-range work

[Device-acl-ipv4-basic-2001] rule denies the source any time-range work

[Device-acl-ipv4-basic-2001] quit

# Apply IPv4 basic ACL 2001 to filter outgoing packets on Twenty-FiveGigE 1/0/2.

[Device] interface twenty-five gigs 1/0/2

[Device-Twenty-FiveGigE1/0/2] packet-filter 2001 outbound

[Device-Twenty-FiveGigE1/0/2] quit

## Verifying the configuration

# Verify that the time range work is active on the device.

[Device] displays time range all

The current time is 13:58:35 6/19/2015 Friday

Time-range: work (Active)

08:00 to 18:00 working-day

from 00:00 6/1/2015 to 00:00 1/1/2016

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