Chapter 4
Options Statements

mark

Name

`mark -` causes GateD to output a message to the trace log at the specified interval

Syntax

`mark` *time*

Parameters

time - the time interval between "mark messages" in the form of seconds, minutes:seconds, or hours:minutes:seconds

Description

`mark` causes GateD to output a message to the trace log at the specified interval. `mark` can be used as one method of determining whether GateD is still running.

Defaults

`options mark 0;` # disable mark messages

Context

`options` statement

Examples

The following example causes GateD to generate a mark message every 5 minutes:

`options mark 5:0 ;`

See Also

noresolv

Name

`noresolv` - prevents mapping symbolic names to IP addresses

Syntax

`noresolv`

Parameters

Description

By default, GateD will try to resolve symbolic names into IP addresses by using the `gethostbyname()` and `getnetbyname()` library calls. These calls usually use the Domain Name System (DNS) instead of the host's local host and network tables.

If there is insufficient routing information to send DNS queries, GateD will deadlock during startup. `noresolv` can be used to prevent these calls. Symbolic names will result in configuration file errors.

Defaults

This option is disabled. Symbolic host names are mapped to IP addresses.

Context

`options` statement

Examples

`options noresolv;`

See Also

`options` on page 12

nosend

Name

`nosend` - prevents GateD from sending packets

Syntax

`nosend`

Parameters

Description

`nosend` makes it possible to run GateD on a live network to test protocol interactions without actually participating in the routing protocols. The packet traces in the GateD log can be examined to verify that GateD is functioning properly.

`nosend` applies to OSPF, ISIS, and all other protocols that send UDP packets.

Defaults

This option is disabled. Packets are sent by default, i.e., GateD participates in the routing protocols.

Context

`options` statement

Examples

```
options nosend;
```

See Also

`options` on page 12

options

Name

`options` - allow specification of certain global options

Syntax

```
options
    [ nosend ]
    [ noresolv ]
    [ syslog [ upto ] log_level ]
    [ mark time ]
;
```

Parameters

`nosend`

`noresolv`

`syslog`

`mark`

Description

`options` statements let you specify certain global options. If used, `options` must appear before any other type of configuration statement in the gated.conf file.

Defaults

`nosend`, `noresolv`, and `mark` are disabled by default.

`options syslog upto info;`

Context

global

Examples

```
options nosend noresolv syslog notice mark 5:00;
```

See Also

"Route Aggregation" on page 673

syslog

Name

    `syslog` - sets GateD logging level

Syntax

    `syslog ( [ upto ] ` *`log_level ... `*`)`

Parameters

The values for *`log_level`* are (high to low):

Table 1: Values for *`log_level`*

log_level value	setlogmask term	Definition
emerg (high)	LOG_EMERG	A panic condition
alert	LOG_ALERT	A condition that should be corrected immediately, such as a corrupted system database
crit	LOG_CRIT	Critical conditions, e.g., hard disk errors
err	LOG_ERR	Errors
warning	LOG_WARNING	Warning messages
notice	LOG_NOTICE	Conditions that are not error conditions but should possibly be handled individually
info	LOG_INFO	Informational messages
debug (low)	LOG_DEBUG	Messages that contain information normally of use only when debugging a program

Description

`syslog` controls the amount of data GateD logs via syslog on systems where `setlogmask()` is supported. The available logging levels and other terminology are as defined in the `setlogmask(3)` man page.

Defaults

`options syslog upto info;`

Context

options statement

Examples

The following example logs **emerg**, **alert**, and **crit** only.

options syslog upto crit;

The above example can also be written the following way.

options syslog emerg crit alert ;

See Also

options on page 12