

Chapter 13

Redirect Processing

interface

Name

interface - allows the enabling and disabling of redirects on an interface basis

Syntax

```
interface interface_list [noredirects] [redirects];
```

Parameters

interface_list - specifies the set of interfaces to which the rest of the parameters apply, or **all** for all interfaces

noredirects - specifies that redirects received via the specified interfaces will be ignored

redirects - specifies that redirects received via the specified interface will be accepted

Description

interface specifies the set of interfaces on which the redirects are enabled or disabled.

Defaults

interface_list - Redirects are processed from all interfaces unless an interface statement is configured, in which case only redirects on the specified interfaces are processed. Interfaces may be specified by name or address.

Context

redirect statement

Examples

The following example enables redirects on interface fxp0:

```
redirect on {  
    interface fxp0 redirects;  
};
```

See Also

`redirect` on page 322

preference

Name

preference - sets the preference for a route learned from a redirect

Syntax

```
preference preference ;
```

Parameters

preference - the value to be used for routes learned from the redirect protocol

Description

preference specifies the preference value to be used when comparing routes learned via the redirect protocol against routes learned via other protocols.

Defaults

The default value of *preference* is 30.

Context

redirect statement

Examples

The following example sets the preference for a route learned from a redirect to be 45.

```
redirect on {  
    preference 45;  
};
```

See Also

redirect on page 322

redirect

Name

redirect - specifies how GateD manages ICMP redirects

Syntax

```
redirect on | off
[ {
    preference preference ;
    interface interface_list [ noredirects ] [ redirects ] ;
    trustedgateways gateway_list ;
    traceoptions trace_options ;
} ] ;
```

Parameters

preference *preference* - the value to be used for routes learned from the redirect protocol

interface *interface_list* - specifies the set of interfaces to which the rest of the parameters apply, or **all** for all interfaces

noredirects - specifies that redirects received via the specified interfaces will be ignored

redirects - specifies that redirects received via the specified interface will be accepted

trustedgateways *gateway_list* - a list of host names or addresses

traceoptions *trace_options* - redirect tracing options

Description

ICMP redirects are messages sent by a router to an originator of data, indicating that a different hop should be used to reach the destination. A router sends a redirect when a routing table lookup for a received datagram results in transmission of the datagram out the same interface on which it was received.

Defaults

```
redirect on {
    preference 30;
    interface all redirects;
};
```

Context

global

Examples

```
redirect on {
```

```
traceoptions "/tmp/redirectlog" all;  
interface all noredirects;  
};
```

See Also

“Chapter 16, Redirect Processing” on page 91 in *Configuring GateD*

traceoptions

Name

`traceoptions` - specifies which information to log for redirect

Syntax

```
traceoptions trace_options ;
```

Parameters

trace_options

Description

`traceoptions` specifies the redirect tracing options. There are no redirect-specific tracing options. All non-error messages are traced when normal is specified for *trace_options*.

Defaults

global traceoptions

Context

redirect statement

Examples

The following example turns on all traceoptions for the redirect protocol and logs the information in a file called "redirect" in the directory /var/tmp.

```
redirect on {  
    traceoptions "/var/tmp/redirect" all;  
};
```

See Also

"Trace Statements" on page 15 in *Configuring GateD*

trustedgateways

Name

trustedgateways - specifies that redirects will be accepted only from the *gateway_list*

Syntax

```
trustedgateways gateway_list ;
```

Parameters

gateway_list - a list of host names or addresses

Description

trustedgateways defines the list of gateways from which redirects will be accepted where the *gateway_list* is a list of host names or addresses.

Defaults

By default, all routers on the shared network(s) are trusted to supply redirects. But if **trustedgateways** is specified, only redirects from the *gateway_list* in the list are accepted.

Context

redirect statement

Examples

In the following example, only redirects received via interface fxp0 and from a host with an ip address of 10.0.0.0 will be accepted.

```
redirect on {  
    interface fxp0 redirects;  
    trustedgateways 10.0.0.0;  
} ;
```

See Also

redirect on page 322

