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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'rdisc.8' command

\$ man rdisc.8

RDISC(8) iputils RDISC(8)

NAME

rdisc - network router discovery daemon

SYNOPSIS

```
rdisc [-abdfirstvV] [-p preference] [-T max_interval] [send_address]
      [receive_address]
```

DESCRIPTION

rdisc implements client side of the ICMP Internet Router Discovery Protocol (IRDP). rdisc is invoked at boot time to populate the network routing tables with default routes.

rdisc listens on the ALL_HOSTS (224.0.0.1) multicast address (or receive_address if it is provided) for ROUTER_ADVERTISE messages from routers. The received messages are handled by first ignoring those listed router addresses with which the host does not share a network. Among the remaining addresses the ones with the highest preference are selected as default routers and a default route is entered in the kernel routing table for each one of them.

Optionally, rdisc can avoid waiting for routers to announce themselves

by sending out a few ROUTER_SOLICITATION messages to the ALL_ROUTERS (224.0.0.2) multicast address (or send_address if it is provided) when it is started.

A timer is associated with each router address and the address will no longer be considered for inclusion in the routing tables if the timer expires before a new advertise message is received from the router. The address will also be excluded from consideration if the received advertise message has a preference of maximum negative.

Server side of router discovery protocol is supported by Cisco IOS and by any more or less complete UNIX routing daemon, for example gated. If compiled with ENABLE_RDISC_SERVER, rdisc can act as responder.

OPTIONS

-a

Accept all routers independently of the preference they have in their advertise messages. Normally rdisc only accepts (and enters in the kernel routing tables) the router or routers with the highest preference.

-b

Opposite to -a, i.e. install only router with the best preference value. This is the default behaviour.

-d

Send debugging messages to syslog.

-f

Keep rdisc running in the background even if no routers are found. Normally rdisc gives up if it has not received any advertise message after soliciting three times. In this case it exits with a non-zero exit code. If -f is not specified in the first form then

-s must be specified.

-r

Responder mode, available only if compiled with
ENABLE_RDISC_SERVER.

-s

Send three solicitation messages initially to quickly discover the
routers when the system is booted. When -s is specified rdisc exits
with a non-zero exit code if it can not find any routers. This can
be overridden with the -f option.

-p preference

Set preference in advertisement messages. Available only with -r
option.

-T max_interval

Set maximum advertisement interval in seconds. Default is 600.
Available only with -r option.

-t

Test mode. Do not go to background.

-v

Be verbose and send lots of debugging messages to syslog.

-V

Print version and exit.

HISTORY

This program was developed by Sun Microsystems (see copyright notice in
source file). It was ported to Linux by Alexey Kuznetsov

<kuznet@ms2.inr.ac.ru>.

SEE ALSO

icmp(7), inet(7), ping(8).

REFERENCES

RFC1256 ICMP Router Discovery Messages. S. Deering, Ed.. September 1991.

SECURITY

rdisc requires CAP_NET_RAW to listen and send ICMP messages and capability CAP_NET_ADMIN to update routing tables.

AVAILABILITY

rdisc is part of iputils package.

iputils 20210202

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