Subject: [PATCH iproute2 0/2] Modify iproute2 to display neighbour proxies
Posted by Tony Zelenoff on Thu, 26 Jan 2012 14:50:03 GMT
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This modification use new kernel functionality to display
neighbour proxies.

Old kernel versions will work nice in case the 'family' member
has the same place and size in rtgenmsg and ndmsg structures.
Also kernel did not check size of incoming structure.

Tony Zelenoff (2):
  Modify neighbour show according to new kernel ability
  Adjust man page for new functionality

 ip/ipneigh.c | 12 ++++++++++--
 man/man8/ip-neighbour.8 | 6 +++++-
 2 files changed, 15 insertions(+), 3 deletions(-)

Subject: [PATCH iproute2 1/2] Modify neighbour proxy show
Posted by Tony Zelenoff on Thu, 26 Jan 2012 14:50:04 GMT
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New "ip neigh show proxy" command now can show proxies which
were added with "ip neigh add proxy" command. Kernel code to
support this feature sent a bit earlier to netdev.

Signed-off-by: Tony Zelenoff <antonz@parallels.com>
---
 ip/ipneigh.c | 13 ++++++++++--
 1 files changed, 11 insertions(+), 2 deletions(-)

diff --git a/ip/ipneigh.c b/ip/ipneigh.c
index c8f745e..313cc63 100644
--- a/ip/ipneigh.c
+++ b/ip/ipneigh.c
@@ -209,6 +209,7 @@ int print_neigh(const struct sockaddr_nl *who, struct nlmsghdr *n, void
*arg)
  if (filter.index && filter.index != r->ndm_ifindex)
   return 0;
  if (!(filter.state&r->ndm_state) &&
+   !(r->ndm_flags & NTF_PROXY) &&
      (r->ndm_state || !(filter.state&0x100)) &&
            (r->ndm_family != AF_DECnet))
   return 0;
@@ -267,6 +268,9 @@ int print_neigh(const struct sockaddr_nl *who, struct nlmsghdr *n, void
*arg)

```
  if (r->ndm_flags & NTF_ROUTER) {
   fprintf(fp, " router");
  }
+ if (r->ndm_flags & NTF_PROXY) {
+  fprintf(fp, " proxy");
+ }
  if (tb[NDA_CACHEINFO] && show_stats) {
   struct nda_cacheinfo *ci = RTA_DATA(tb[NDA_CACHEINFO]);
   int hz = get_user_hz();
@@ -314,6 +318,7 @@ int do_show_or_flush(int argc, char **argv, int flush)
 {
  char *filter_dev = NULL;
  int state_given = 0;
+ struct ndmsg ndm = { 0 };

  ipneigh_reset_filter();

@@ -354,7 +359,9 @@ int do_show_or_flush(int argc, char **argv, int flush)
    if (state == 0)
     state = 0x100;
    filter.state |= state;
-  } else {
+  } else if (strcmp(*argv, "proxy") == 0)
+   ndm.ndm_flags = NTF_PROXY;
+  else {
    if (strcmp(*argv, "to") == 0) {
     NEXT_ARG();
    }
@@ -418,7 +425,9 @@ int do_show_or_flush(int argc, char **argv, int flush)
   return 1;
  }

- if (rtnl_wilddump_request(&rth, filter.family, RTM_GETNEIGH) < 0) {
+ ndm.ndm_family = filter.family;
+
+ if (rtnl_dump_request(&rth, RTM_GETNEIGH, &ndm, sizeof(struct ndmsg)) < 0) {
   perror("Cannot send dump request");
   exit(1);
  }
--
1.7.1
```

Subject: [PATCH iproute2 2/2] Adjust man page for new functionality
Posted by Tony Zelenoff on Thu, 26 Jan 2012 14:50:05 GMT
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Signed-off-by: Tony Zelenoff <antonz@parallels.com>

```
---
 man/man8/ip-neighbour.8 |    6 +++++-
 1 files changed, 5 insertions(+), 1 deletions(-)

diff --git a/man/man8/ip-neighbour.8 b/man/man8/ip-neighbour.8
index f4ea0db..db383e3 100644
--- a/man/man8/ip-neighbour.8
+++ b/man/man8/ip-neighbour.8
@@ -24,7 +24,7 @@ ip neighbour \- neighbour/arp tables management.
 .IR DEV " ]"

 .ti -8
-.BR "ip neigh" " { " show " | " flush " } [ " to
+.BR "ip neigh" " { " show " | " flush " } [ " proxy " ] [ " to
 .IR PREFIX " ] [ "
 .B  dev
 .IR DEV " ] [ "
@@ -133,6 +133,10 @@ the prefix selecting the neighbours to list.
 only list the neighbours attached to this device.

 .TP
+.BI proxy
+list neighbour proxies.
+
+.TP
 .B unused
 only list neighbours which are not currently in use.

--
1.7.1
```