This modification uses new kernel functionality to display neighbour proxies.

Old kernel versions will work nicely 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(-)

---
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>
---
...
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 (strncpy("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) {
+    struct ndm ndm = { 0 };
+    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>
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