

---

Subject: [PATCH 4/5] netns netfilter: per-netns arp\_tables FILTER

Posted by [Alexey Dobriyan](#) on Thu, 24 Jan 2008 12:29:30 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Signed-off-by: Alexey Dobriyan <[adobriyan@sw.ru](mailto:adobriyan@sw.ru)>

---

```
include/net/netns/ipv4.h      | 1
net/ipv4/netfilter/arptable_filter.c | 38 ++++++-----
2 files changed, 29 insertions(+), 10 deletions(-)
```

```
--- a/include/net/netns/ipv4.h
+++ b/include/net/netns/ipv4.h
@@ -32,6 +32,7 @@ struct netns_ipv4 {
     struct xt_table *iptable_filter;
     struct xt_table *iptable_mangle;
     struct xt_table *iptable_raw;
+    struct xt_table *arptable_filter;
 #endif
 };
 #endif
--- a/net/ipv4/netfilter/arptable_filter.c
+++ b/net/ipv4/netfilter/arptable_filter.c
@@ -20,7 +20,7 @@ static struct
     struct arpt_replace repl;
     struct arpt_standard entries[3];
     struct arpt_error term;
-} initial_table __initdata = {
+} initial_table __net_initdata = {
     .repl = {
         .name = "filter",
         .valid_hooks = FILTER_VALID_HOOKS,
@@ -45,7 +45,7 @@ static struct
     .term = ARPT_ERROR_INIT,
 };

-static struct arpt_table __packet_filter = {
+static struct arpt_table packet_filter = {
     .name = "filter",
     .valid_hooks = FILTER_VALID_HOOKS,
     .lock = RW_LOCK_UNLOCKED,
@@ -53,7 +53,6 @@ static struct arpt_table __packet_filter = {
     .me = THIS_MODULE,
     .af = NF_ARP,
 };
-static struct arpt_table *packet_filter;

/* The work comes in here from netfilter.c */
```

```

static unsigned int arpt_hook(unsigned int hook,
@@ -62,7 +61,7 @@ static unsigned int arpt_hook(unsigned int hook,
    const struct net_device *out,
    int (*okfn)(struct sk_buff *))
{
- return arpt_do_table(skb, hook, in, out, packet_filter);
+ return arpt_do_table(skb, hook, in, out, init_net.ipv4.arptable_filter);
}

static struct nf_hook_ops arpt_ops[] __read_mostly = {
@@ -86,14 +85,33 @@ static struct nf_hook_ops arpt_ops[] __read_mostly = {
    },
};

+static int __net_init arptable_filter_net_init(struct net *net)
+{
+ /* Register table */
+ net->ipv4.arptable_filter =
+ arpt_register_table(net, &packet_filter, &initial_table.repl);
+ if (IS_ERR(net->ipv4.arptable_filter))
+ return PTR_ERR(net->ipv4.arptable_filter);
+ return 0;
+}
+
+static void __net_exit arptable_filter_net_exit(struct net *net)
+{
+ arpt_unregister_table(net->ipv4.arptable_filter);
+}
+
+static struct pernet_operations arptable_filter_net_ops = {
+ .init = arptable_filter_net_init,
+ .exit = arptable_filter_net_exit,
+};
+
+static int __init arptable_filter_init(void)
+{
+ int ret;

- /* Register table */
- packet_filter = arpt_register_table(&init_net, &__packet_filter, &initial_table.repl);
- if (IS_ERR(packet_filter))
- return PTR_ERR(packet_filter);
+ ret = register_pernet_subsys(&arptable_filter_net_ops);
+ if (ret < 0)
+ return ret;

+ ret = nf_register_hooks(arpt_ops, ARRAY_SIZE(arpt_ops));
+ if (ret < 0)

```

```
@@ -101,14 +119,14 @@ static int __init arptable_filter_init(void)
    return ret;
```

cleanup\_table:

```
- arpt_unregister_table(packet_filter);
+ unregister_pernet_subsys(&arptable_filter_net_ops);
    return ret;
}
```

```
static void __exit arptable_filter_fini(void)
```

```
{
    nf_unregister_hooks(arpt_ops, ARRAY_SIZE(arpt_ops));
- arpt_unregister_table(packet_filter);
+ unregister_pernet_subsys(&arptable_filter_net_ops);
}
```

```
module_init(arptable_filter_init);
```

---

---

Subject: Re: [PATCH 4/5] netns netfilter: per-netns arp\_tables FILTER

Posted by [Patrick McHardy](#) on Thu, 24 Jan 2008 17:46:04 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Alexey Dobriyan wrote:

> Signed-off-by: Alexey Dobriyan <[adobriyan@sw.ru](mailto:adobriyan@sw.ru)>

Applied.

---