
Subject: [patch 03/38][IPV6] inet6_addr - isolate inet6 addresses from proc file
Posted by [Daniel Lezcano](#) on Mon, 03 Dec 2007 16:16:39 GMT

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Make /proc/net/if_inet6 show only inet6 addresses belonging to the namespace.

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net/ipv6/addrconf.c | 48 ++++++-----
1 file changed, 39 insertions(+), 9 deletions(-)

Index: linux-2.6-netns/net/ipv6/addrconf.c

=====

--- linux-2.6-netns.orig/net/ipv6/addrconf.c

+++ linux-2.6-netns/net/ipv6/addrconf.c

@@ -2699,6 +2699,7 @@ static void addrconf_dad_run(struct inet

#ifdef CONFIG_PROC_FS

struct if6_iter_state {

+ struct seq_net_private p;

int bucket;

};

@@ -2706,11 +2707,16 @@ static struct inet6_ifaddr *if6_get_firs

{

struct inet6_ifaddr *ifa = NULL;

struct if6_iter_state *state = seq->private;

+ struct net *net = state->p.net;

for (state->bucket = 0; state->bucket < IN6_ADDR_HSIZE; ++state->bucket) {

ifa = inet6_addr_lst[state->bucket];

- if (ifa)

- break;

+

+ while (ifa && ifa->idev->dev->nd_net != net)

+ ifa = ifa->lst_next;

+ if (!ifa)

+ continue;

+ break;

}

return ifa;

}

@@ -2718,13 +2724,22 @@ static struct inet6_ifaddr *if6_get_firs

static struct inet6_ifaddr *if6_get_next(struct seq_file *seq, struct inet6_ifaddr *ifa)

{

struct if6_iter_state *state = seq->private;

```
+ struct net *net = state->p.net;
```

```
    ifa = ifa->lst_next;
try_again:
+ if (ifa) {
+   if (ifa->idev->dev->nd_net != net) {
+     ifa = ifa->lst_next;
+     goto try_again;
+   }
+ }
+
+ if (!ifa && ++state->bucket < IN6_ADDR_HSIZE) {
+   ifa = inet6_addr_lst[state->bucket];
+   goto try_again;
+ }
+
+ return ifa;
}
```

```
@@ -2781,8 +2796,8 @@ static const struct seq_operations if6_s
```

```
static int if6_seq_open(struct inode *inode, struct file *file)
{
- return seq_open_private(file, &if6_seq_ops,
-   sizeof(struct if6_iter_state));
+ return seq_open_net(inode, file, &if6_seq_ops,
+   sizeof(struct if6_iter_state));
}
```

```
static const struct file_operations if6_fops = {
@@ -2790,19 +2805,34 @@ static const struct file_operations if6_
    .open = if6_seq_open,
    .read = seq_read,
    .llseek = seq_lseek,
- .release = seq_release_private,
+ .release = seq_release_net,
+};
+
+static int if6_proc_net_init(struct net *net)
+{
+ if (!proc_net_fops_create(net, "if_inet6", S_IRUGO, &if6_fops))
+   return -ENOMEM;
+   return 0;
+}
+
+static void if6_proc_net_exit(struct net *net)
+{
+   proc_net_remove(net, "if_inet6");
```

```

+}
+
+static struct pernet_operations if6_proc_net_ops = {
+    .init = if6_proc_net_init,
+    .exit = if6_proc_net_exit,
+};

int __init if6_proc_init(void)
{
- if (!proc_net_fops_create(&init_net, "if_inet6", S_IRUGO, &if6_fops))
- return -ENOMEM;
- return 0;
+ return register_pernet_subsys(&if6_proc_net_ops);
}

void if6_proc_exit(void)
{
- proc_net_remove(&init_net, "if_inet6");
+ unregister_pernet_subsys(&if6_proc_net_ops);
}
#endif /* CONFIG_PROC_FS */

--

```

Containers mailing list
Containers@lists.linux-foundation.org
<https://lists.linux-foundation.org/mailman/listinfo/containers>
