Subject: [PATCH 3/3] netns netfilter: create per-netns /proc/net/*_tables_*
Posted by Alexey Dobriyan on Fri, 25 Jan 2008 16:45:29 GMT
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```
 include/linux/netfilter/x_tables.h |    4 ++--
 net/ipv4/netfilter/arp_tables.c    |   21 +++++++++++++++++++---
 net/ipv4/netfilter/ip_tables.c     |   21 +++++++++++++++++++---
 net/ipv6/netfilter/ip6_tables.c    |   22 +++++++++++++++++++---
 net/netfilter/x_tables.c           |   20 ++++++++++----------
 5 files changed, 67 insertions(+), 21 deletions(-)

--- a/include/linux/netfilter/x_tables.h
+++ b/include/linux/netfilter/x_tables.h
@@ -357,8 +357,8 @@ extern struct xt_table *xt_find_table_lock(struct net *net, int af,
        const char *name);
 extern void xt_table_unlock(struct xt_table *t);

-extern int xt_proto_init(int af);
-extern void xt_proto_fini(int af);
+extern int xt_proto_init(struct net *net, int af);
+extern void xt_proto_fini(struct net *net, int af);

 extern struct xt_table_info *xt_alloc_table_info(unsigned int size);
 extern void xt_free_table_info(struct xt_table_info *info);
--- a/net/ipv4/netfilter/arp_tables.c
+++ b/net/ipv4/netfilter/arp_tables.c
@@ -1822,11 +1822,26 @@ static struct nf_sockopt_ops arpt_sockopts = {
  .owner  = THIS_MODULE,
 };

+static int __net_init arp_tables_net_init(struct net *net)
+{
+ return xt_proto_init(net, NF_ARP);
+}
+
+static void __net_exit arp_tables_net_exit(struct net *net)
+{
+ xt_proto_fini(net, NF_ARP);
+}
+
+static struct pernet_operations arp_tables_net_ops = {
+ .init = arp_tables_net_init,
+ .exit = arp_tables_net_exit,
+};
+
```

```
 static int __init arp_tables_init(void)
 {
  int ret;

- ret = xt_proto_init(NF_ARP);
+ ret = register_pernet_subsys(&arp_tables_net_ops);
  if (ret < 0)
   goto err1;

@@ -1851,7 +1866,7 @@ err4:
 err3:
  xt_unregister_target(&arpt_standard_target);
 err2:
- xt_proto_fini(NF_ARP);
+ unregister_pernet_subsys(&arp_tables_net_ops);
 err1:
  return ret;
 }
@@ -1861,7 +1876,7 @@ static void __exit arp_tables_fini(void)
  nf_unregister_sockopt(&arpt_sockopts);
  xt_unregister_target(&arpt_error_target);
  xt_unregister_target(&arpt_standard_target);
- xt_proto_fini(NF_ARP);
+ unregister_pernet_subsys(&arp_tables_net_ops);
 }

 EXPORT_SYMBOL(arpt_register_table);
--- a/net/ipv4/netfilter/ip_tables.c
+++ b/net/ipv4/netfilter/ip_tables.c
@@ -2211,11 +2211,26 @@ static struct xt_match icmp_matchstruct __read_mostly = {
  .family  = AF_INET,
 };

+static int __net_init ip_tables_net_init(struct net *net)
+{
+ return xt_proto_init(net, AF_INET);
+}
+
+static void __net_exit ip_tables_net_exit(struct net *net)
+{
+ xt_proto_fini(net, AF_INET);
+}
+
+static struct pernet_operations ip_tables_net_ops = {
+ .init = ip_tables_net_init,
+ .exit = ip_tables_net_exit,
+};
+
```

```
 static int __init ip_tables_init(void)
 {
  int ret;

- ret = xt_proto_init(AF_INET);
+ ret = register_pernet_subsys(&ip_tables_net_ops);
  if (ret < 0)
   goto err1;

@@ -2245,7 +2260,7 @@ err4:
 err3:
  xt_unregister_target(&ipt_standard_target);
 err2:
- xt_proto_fini(AF_INET);
+ unregister_pernet_subsys(&ip_tables_net_ops);
 err1:
  return ret;
 }
@@ -2258,7 +2273,7 @@ static void __exit ip_tables_fini(void)
  xt_unregister_target(&ipt_error_target);
  xt_unregister_target(&ipt_standard_target);

- xt_proto_fini(AF_INET);
+ unregister_pernet_subsys(&ip_tables_net_ops);
 }

 EXPORT_SYMBOL(ipt_register_table);
--- a/net/ipv6/netfilter/ip6_tables.c
+++ b/net/ipv6/netfilter/ip6_tables.c
@@ -2235,11 +2235,26 @@ static struct xt_match icmp6_matchstruct __read_mostly = {
  .family  = AF_INET6,
 };

+static int __net_init ip6_tables_net_init(struct net *net)
+{
+ return xt_proto_init(net, AF_INET6);
+}
+
+static void __net_exit ip6_tables_net_exit(struct net *net)
+{
+ xt_proto_fini(net, AF_INET6);
+}
+
+static struct pernet_operations ip6_tables_net_ops = {
+ .init = ip6_tables_net_init,
+ .exit = ip6_tables_net_exit,
+};
+
```

```
 static int __init ip6_tables_init(void)
 {
  int ret;

- ret = xt_proto_init(AF_INET6);
+ ret = register_pernet_subsys(&ip6_tables_net_ops);
  if (ret < 0)
   goto err1;

@@ -2269,7 +2284,7 @@ err4:
 err3:
  xt_unregister_target(&ip6t_standard_target);
 err2:
- xt_proto_fini(AF_INET6);
+ unregister_pernet_subsys(&ip6_tables_net_ops);
 err1:
  return ret;
 }
@@ -2281,7 +2296,8 @@ static void __exit ip6_tables_fini(void)
  xt_unregister_match(&icmp6_matchstruct);
  xt_unregister_target(&ip6t_error_target);
  xt_unregister_target(&ip6t_standard_target);
- xt_proto_fini(AF_INET6);
+
+ unregister_pernet_subsys(&ip6_tables_net_ops);
 }

 /*
--- a/net/netfilter/x_tables.c
+++ b/net/netfilter/x_tables.c
@@ -928,7 +928,7 @@ static const struct file_operations xt_target_ops = {

 #endif /* CONFIG_PROC_FS */

-int xt_proto_init(int af)
+int xt_proto_init(struct net *net, int af)
 {
 #ifdef CONFIG_PROC_FS
  char buf[XT_FUNCTION_MAXNAMELEN];
@@ -942,7 +942,7 @@ int xt_proto_init(int af)
 #ifdef CONFIG_PROC_FS
  strlcpy(buf, xt_prefix[af], sizeof(buf));
  strlcat(buf, FORMAT_TABLES, sizeof(buf));
- proc = proc_net_fops_create(&init_net, buf, 0440, &xt_table_ops);
+ proc = proc_net_fops_create(net, buf, 0440, &xt_table_ops);
  if (!proc)
   goto out;
  proc->data = (void *)(unsigned long)af;
```

```
@@ -950,14 +950,14 @@ int xt_proto_init(int af)

  strlcpy(buf, xt_prefix[af], sizeof(buf));
  strlcat(buf, FORMAT_MATCHES, sizeof(buf));
- proc = proc_net_fops_create(&init_net, buf, 0440, &xt_match_ops);
+ proc = proc_net_fops_create(net, buf, 0440, &xt_match_ops);
  if (!proc)
   goto out_remove_tables;
  proc->data = (void *)(unsigned long)af;

  strlcpy(buf, xt_prefix[af], sizeof(buf));
  strlcat(buf, FORMAT_TARGETS, sizeof(buf));
- proc = proc_net_fops_create(&init_net, buf, 0440, &xt_target_ops);
+ proc = proc_net_fops_create(net, buf, 0440, &xt_target_ops);
  if (!proc)
   goto out_remove_matches;
  proc->data = (void *)(unsigned long)af;
@@ -969,34 +969,34 @@ int xt_proto_init(int af)
 out_remove_matches:
  strlcpy(buf, xt_prefix[af], sizeof(buf));
  strlcat(buf, FORMAT_MATCHES, sizeof(buf));
- proc_net_remove(&init_net, buf);
+ proc_net_remove(net, buf);

 out_remove_tables:
  strlcpy(buf, xt_prefix[af], sizeof(buf));
  strlcat(buf, FORMAT_TABLES, sizeof(buf));
- proc_net_remove(&init_net, buf);
+ proc_net_remove(net, buf);
 out:
  return -1;
 #endif
 }
 EXPORT_SYMBOL_GPL(xt_proto_init);

-void xt_proto_fini(int af)
+void xt_proto_fini(struct net *net, int af)
 {
 #ifdef CONFIG_PROC_FS
  char buf[XT_FUNCTION_MAXNAMELEN];

  strlcpy(buf, xt_prefix[af], sizeof(buf));
  strlcat(buf, FORMAT_TABLES, sizeof(buf));
- proc_net_remove(&init_net, buf);
+ proc_net_remove(net, buf);

  strlcpy(buf, xt_prefix[af], sizeof(buf));
  strlcat(buf, FORMAT_TARGETS, sizeof(buf));
```

```
- proc_net_remove(&init_net, buf);
+ proc_net_remove(net, buf);

  strlcpy(buf, xt_prefix[af], sizeof(buf));
  strlcat(buf, FORMAT_MATCHES, sizeof(buf));
- proc_net_remove(&init_net, buf);
+ proc_net_remove(net, buf);
 #endif /*CONFIG_PROC_FS*/
 }
 EXPORT_SYMBOL_GPL(xt_proto_fini);
```