
Subject: [patch 1/2][NETNS49][IPV4][IGMP] make igmp proc per namespace
Posted by [Daniel Lezcano](#) on Fri, 12 Oct 2007 17:10:14 GMT
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This patch makes the proc files: "igmp" and "mcfilter" per namespace.

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net/ipv4/igmp.c | 68 +++-----
1 file changed, 60 insertions(+), 8 deletions(-)

Index: linux-2.6-netns/net/ipv4/igmp.c

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=====
--- linux-2.6-netns.orig/net/ipv4/igmp.c
+++ linux-2.6-netns/net/ipv4/igmp.c
@@ -2291,6 +2291,7 @@ int ip_check_mc(struct in_device *in_dev
 struct igmp_mc_iter_state {
     struct net_device *dev;
     struct in_device *in_dev;
+ struct net *net;
 };

#define igmp_mc_seq_private(seq) ((struct igmp_mc_iter_state *) (seq)->private)
@@ -2299,9 +2300,10 @@ static inline struct ip_mc_list *igmp_mc
{
    struct ip_mc_list *im = NULL;
    struct igmp_mc_iter_state *state = igmp_mc_seq_private(seq);
+ struct net *net = state->net;

    state->in_dev = NULL;
- for_each_netdev(&init_net, state->dev) {
+ for_each_netdev(net, state->dev) {
    struct in_device *in_dev;
    in_dev = in_dev_get(state->dev);
    if (!in_dev)
@@ -2426,31 +2428,47 @@ static int igmp_mc_seq_open(struct inode

    if (!s)
        goto out;
+
+ s->net = get_proc_net(inode);
+ if (!s->net)
+     goto out_kfree;
+
    rc = seq_open(file, &igmp_mc_seq_ops);
    if (rc)
-     goto out_kfree;
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+ goto out_put_net;

    seq = file->private_data;
    seq->private = s;
out:
    return rc;
+out_put_net:
+ put_net(s->net);
out_kfree:
    kfree(s);
    goto out;
}

+static int igmp_mc_seq_release(struct inode *inode, struct file *file)
+{
+ struct seq_file *seq = file->private_data;
+ struct igmp_mc_iter_state *state = seq->private;
+ put_net(state->net);
+ return seq_release_private(inode, file);
+}
+
static const struct file_operations igmp_mc_seq_fops = {
    .owner = THIS_MODULE,
    .open = igmp_mc_seq_open,
    .read = seq_read,
    .llseek = seq_lseek,
- .release = seq_release_private,
+ .release = igmp_mc_seq_release,
};

struct igmp_mcf_iter_state {
    struct net_device *dev;
    struct in_device *idev;
    struct ip_mc_list *im;
+ struct net *net;
};

#define igmp_mcf_seq_private(seq) ((struct igmp_mcf_iter_state *) (seq->private))
@@ -2460,10 +2478,11 @@ static inline struct ip_sf_list *igmp_mc
    struct ip_sf_list *psf = NULL;
    struct ip_mc_list *im = NULL;
    struct igmp_mcf_iter_state *state = igmp_mcf_seq_private(seq);
+ struct net *net = state->net;

    state->idev = NULL;
    state->im = NULL;
- for_each_netdev(&init_net, state->dev) {
+ for_each_netdev(net, state->dev) {

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    struct in_device *idev;
    idev = in_dev_get(state->dev);
    if (unlikely(idev == NULL))
@@ -2600,31 +2619,64 @@ static int igmp_mcf_seq_open(struct inode

    if (!s)
        goto out;
+
+ s->net = get_proc_net(inode);
+ if (!s->net)
+     goto out_kfree;
+
    rc = seq_open(file, &igmp_mcf_seq_ops);
    if (rc)
-     goto out_kfree;
+     goto out_put_net;

    seq = file->private_data;
    seq->private = s;
out:
    return rc;
+out_put_net:
+ put_net(s->net);
out_kfree:
    kfree(s);
    goto out;
}

+static int igmp_mcf_seq_release(struct inode *inode, struct file *file)
+{
+ struct seq_file *seq = file->private_data;
+ struct igmp_mcf_iter_state *state = seq->private;
+ put_net(state->net);
+ return seq_release_private(inode, file);
+
+}
+
static const struct file_operations igmp_mcf_seq_fops = {
    .owner = THIS_MODULE,
    .open = igmp_mcf_seq_open,
    .read = seq_read,
    .llseek = seq_lseek,
- .release = seq_release_private,
+ .release = igmp_mcf_seq_release,
+};
+
+static int igmp_mc_net_init(struct net *net)
+{

```

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+ proc_net_fops_create(net, "igmp", S_IRUGO, &igmp_mc_seq_fops);
+ proc_net_fops_create(net, "mcfilter", S_IRUGO, &igmp_mcf_seq_fops);
+ return 0;
+}
+
+static void igmp_mc_net_exit(struct net *net)
+{
+ proc_net_remove(net, "igmp");
+ proc_net_remove(net, "mcfilter");
+}
+
+struct pernet_operations igmp_mc_net_ops = {
+ .init = igmp_mc_net_init,
+ .exit = igmp_mc_net_exit,
+ };

int __init igmp_mc_proc_init(void)
{
- proc_net_fops_create(&init_net, "igmp", S_IRUGO, &igmp_mc_seq_fops);
- proc_net_fops_create(&init_net, "mcfilter", S_IRUGO, &igmp_mcf_seq_fops);
+ register_pernet_subsys(&igmp_mc_net_ops);
  return 0;
}
#endif

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Containers mailing list
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