
Subject: [PATCH RFC 19/31] net: sysfs interface support for moving devices between network namespaces.

Posted by [ebiederm](#) on Thu, 25 Jan 2007 19:00:21 GMT

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From: Eric W. Biederman <ebiederm@xmission.com> - unquoted

I haven't a clue if this interface will meet with widespread approval but at this point it is simple, and very useful.

Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>

net/core/net-sysfs.c | 35 +++++++++++++++++++++++++++++++++++++
1 files changed, 35 insertions(+), 0 deletions(-)

diff --git a/net/core/net-sysfs.c b/net/core/net-sysfs.c

index 1be6f94..f8a5c6b 100644

--- a/net/core/net-sysfs.c

+++ b/net/core/net-sysfs.c

```
@@ -188,6 +188,40 @@ static ssize_t store_mtu(struct class_device *cd, const char *buf, size_t len)
    return netdev_store(cd, buf, len, change_mtu);
}
```

```
+static ssize_t show_new_ns_pid(struct class_device *cd, char *buf)
```

```
+{
```

```
+ return -EPERM;
```

```
+}
```

```
+static int change_new_ns_pid(struct net_device *dev, unsigned long new_ns_pid)
```

```
+{
```

```
+ struct task_struct *tsk;
```

```
+ int err;
```

```
+ net_t net;
```

```
+ /* Look up the network namespace */
```

```
+ err = -ESRCH;
```

```
+ rcu_read_lock();
```

```
+ tsk = find_task_by_pid(new_ns_pid);
```

```
+ if (tsk) {
```

```
+ task_lock(tsk);
```

```
+ if (tsk->nsproxy) {
```

```
+ err = 0;
```

```
+ net = get_net(tsk->nsproxy->net_ns);
```

```
+ }
```

```
+ task_unlock(tsk);
```

```
+ }
```

```
+ rcu_read_unlock();
```

```
+ /* If I found a network namespace move the device */
```

```
+ if (!err) {
```

```

+ err = dev_change_net_namespace(dev, net, NULL);
+ put_net(net);
+ }
+ return err;
+}
+static ssize_t store_new_ns_pid(struct class_device *cd, const char *buf, size_t len)
+{
+ return netdev_store(cd, buf, len, change_new_ns_pid);
+}
+
+ NETDEVICE_SHOW(flags, fmt_hex);

static int change_flags(struct net_device *dev, unsigned long new_flags)
@@ -243,6 +277,7 @@ static struct class_device_attribute net_class_attributes[] = {
+ __ATTR(tx_queue_len, S_IRUGO | S_IWUSR, show_tx_queue_len,
+       store_tx_queue_len),
+ __ATTR(weight, S_IRUGO | S_IWUSR, show_weight, store_weight),
+ __ATTR(new_ns_pid, S_IWUSR, show_new_ns_pid, store_new_ns_pid),
+ {}
+};

--
1.4.4.1.g278f

```

Containers mailing list
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<https://lists.osdl.org/mailman/listinfo/containers>
