
Subject: [PATCH (resend)] Don't create tunnels with '%' in name.
Posted by [Pavel Emelianov](#) on Wed, 27 Feb 2008 07:44:33 GMT
[View Forum Message](#) <> [Reply to Message](#)

Four tunnel drivers (ip_gre, ipip, ip6_tunnel and sit) can receive a pre-defined name for a device from the userspace. Since these drivers call the register_netdevice() (rtnl_lock, is held), which does not generate the device's name, this name may contain a '%' character.

Not sure how bad is this to have a device with a '%' in its name, but all the other places either use the register_netdev(), which call the dev_alloc_name(), or explicitly call the dev_alloc_name() before registering, i.e. do not allow for such names.

This had to be prior to the commit 34cc7b, but I forgot to number the patches and this one got lost, sorry.

Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

```
diff --git a/net/ipv4/ip_gre.c b/net/ipv4/ip_gre.c
index 906cb1a..e7821ba 100644
--- a/net/ipv4/ip_gre.c
+++ b/net/ipv4/ip_gre.c
@@ -266,20 +266,24 @@ static struct ip_tunnel *ipgre_tunnel_locate(struct ip_tunnel_parm
 *parms, int
 if (!dev)
     return NULL;

+ if (strchr(name, '%')) {
+     if (dev_alloc_name(dev, name) < 0)
+         goto failed_free;
+ }
+
     dev->init = ipgre_tunnel_init;
     nt = netdev_priv(dev);
     nt->parms = *parms;

- if (register_netdevice(dev) < 0) {
-     free_netdev(dev);
-     goto failed;
- }
+ if (register_netdevice(dev) < 0)
+     goto failed_free;
```

```

dev_hold(dev);
ipgre_tunnel_link(nt);
return nt;

-failed:
+failed_free:
+ free_netdev(dev);
    return NULL;
}

diff --git a/net/ipv4/iph.c b/net/ipv4/iph.c
index e77e3b8..dbaed69 100644
--- a/net/ipv4/iph.c
+++ b/net/ipv4/iph.c
@@ -228,20 +228,24 @@ static struct ip_tunnel *iph_tunnel_locate(struct ip_tunnel_parm
*parms, int c
if (dev == NULL)
    return NULL;

+ if (strchr(name, '%')) {
+ if (dev_alloc_name(dev, name) < 0)
+ goto failed_free;
+ }
+
nt = netdev_priv(dev);
dev->init = iph_tunnel_init;
nt->parms = *parms;

- if (register_netdevice(dev) < 0) {
- free_netdev(dev);
- goto failed;
- }
+ if (register_netdevice(dev) < 0)
+ goto failed_free;

dev_hold(dev);
iph_tunnel_link(nt);
return nt;

-failed:
+failed_free:
+ free_netdev(dev);
    return NULL;
}

```

diff --git a/net/ipv6/ip6_tunnel.c b/net/ipv6/ip6_tunnel.c
index 2a124e9..78f4388 100644
--- a/net/ipv6/ip6_tunnel.c

```

+++ b/net/ipv6/ip6_tunnel.c
@@ -238,17 +238,24 @@ static struct ip6_tnl *ip6_tnl_create(struct ip6_tnl_parm *p)
    if (dev == NULL)
        goto failed;

+ if (strchr(name, '%')) {
+     if (dev_alloc_name(dev, name) < 0)
+         goto failed_free;
+ }
+
    t = netdev_priv(dev);
    dev->init = ip6_tnl_dev_init;
    t->parms = *p;

- if ((err = register_netdevice(dev)) < 0) {
-     free_netdev(dev);
-     goto failed;
- }
+ if ((err = register_netdevice(dev)) < 0)
+     goto failed_free;
+
    dev_hold(dev);
    ip6_tnl_link(t);
    return t;
+
+failed_free:
+ free_netdev(dev);
failed:
    return NULL;
}

diff --git a/net/ipv6/sit.c b/net/ipv6/sit.c
index dde7801..1656c00 100644
--- a/net/ipv6/sit.c
+++ b/net/ipv6/sit.c
@@ -171,6 +171,11 @@ static struct ip_tunnel *ipip6_tunnel_locate(struct ip_tunnel_parm
*parms, int
    if (dev == NULL)
        return NULL;

+ if (strchr(name, '%')) {
+     if (dev_alloc_name(dev, name) < 0)
+         goto failed_free;
+ }
+
    nt = netdev_priv(dev);
    dev->init = ipip6_tunnel_init;
    nt->parms = *parms;
@@ -178,16 +183,16 @@ static struct ip_tunnel *ipip6_tunnel_locate(struct ip_tunnel_parm

```

```
*parms, int
if (parms->i_flags & SIT_ISATAP)
dev->priv_flags |= IFF_ISATAP;

- if (register_netdevice(dev) < 0) {
- free_netdev(dev);
- goto failed;
- }
+ if (register_netdevice(dev) < 0)
+ goto failed_free;

dev_hold(dev);

ipip6_tunnel_link(nt);
return nt;

+failed_free:
+ free_netdev(dev);
failed:
return NULL;
}
```
