
Subject: [PATCH 8/14][VLAN]: Introduce the vlan_net structure.
Posted by [Pavel Emelianov](#) on Thu, 10 Apr 2008 14:54:55 GMT
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It is empty now, but it will be populated later.
And it uses net generic pointers like TUN does.

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

```
net/8021q/vlan.c | 46 ++++++
net/8021q/vlan.h |  5 +++++
2 files changed, 51 insertions(+), 0 deletions(-)
```

```
diff --git a/net/8021q/vlan.c b/net/8021q/vlan.c
index cf8d810..9296601 100644
```

```
--- a/net/8021q/vlan.c
+++ b/net/8021q/vlan.c
@@ -32,6 +32,7 @@
#include <linux/rtnetlink.h>
#include <linux/notifier.h>
#include <net/net_namespace.h>
+#include <net/netns/generic.h>
```

```
#include <linux/if_vlan.h>
#include "vlan.h"
@@ -41,6 +42,8 @@
```

```
/* Global VLAN variables */
```

```
+int vlan_net_id;
+
/* Our listing of VLAN group(s) */
static struct hlist_head vlan_group_hash[VLAN_GRP_HASH_SIZE];
```

```
@@ -625,6 +628,41 @@ out:
    return err;
}
```

```
+static int vlan_init_net(struct net *net)
+{
+    int err;
+    struct vlan_net *vn;
+
+    err = -ENOMEM;
+    vn = kzalloc(sizeof(struct vlan_net), GFP_KERNEL);
+    if (vn == NULL)
+        goto err_alloc;
```

```

+
+ err = net_assign_generic(net, vlan_net_id, vn);
+ if (err < 0)
+ goto err_assign;
+
+ return 0;
+
+err_assign:
+ kfree(vn);
+err_alloc:
+ return err;
+}
+
+static void vlan_exit_net(struct net *net)
+{
+ struct vlan_net *vn;
+
+ vn = net_generic(net, vlan_net_id);
+ kfree(vn);
+}
+
+static struct pernet_operations vlan_net_ops = {
+ .init = vlan_init_net,
+ .exit = vlan_exit_net,
+};
+
+static int __init vlan_proto_init(void)
+{
+ int err;
@@ -632,6 +670,10 @@ static int __init vlan_proto_init(void)
+ pr_info("%s v%s %s\n", vlan_fullname, vlan_version, vlan_copyright);
+ pr_info("All bugs added by %s\n", vlan_buggyright);

+ err = register_pernet_gen_device(&vlan_net_id, &vlan_net_ops);
+ if (err < 0)
+ goto err0;
+
+ err = vlan_proc_init();
+ if (err < 0)
+ goto err1;
@@ -653,6 +695,8 @@ err3:
err2:
+ vlan_proc_cleanup();
err1:
+ unregister_pernet_gen_device(vlan_net_id, &vlan_net_ops);
+err0:
+ return err;
+}

```

```

@@ -673,6 +717,8 @@ static void __exit vlan_cleanup_module(void)

    vlan_proc_cleanup();

+ unregister_pernet_gen_device(vlan_net_id, &vlan_net_ops);
+
    synchronize_net();
}

diff --git a/net/8021q/vlan.h b/net/8021q/vlan.h
index 51271ae..f27d8d6 100644
--- a/net/8021q/vlan.h
+++ b/net/8021q/vlan.h
@@ -50,4 +50,9 @@ static inline int is_vlan_dev(struct net_device *dev)
    return dev->priv_flags & IFF_802_1Q_VLAN;
}

+extern int vlan_net_id;
+
+struct vlan_net {
+};
+
+ #endif /* !(__BEN_VLAN_802_1Q_INC__) */
--
1.5.3.4

```

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