if dst is not local br_handle_frame_finish() does not clone original skb and
forgets to reset IPCB before return to IP stack. it can lead to stack corruption
in icmp_send()

Signed-off-by: Vasily Averin <vvs@sw.ru>
---

net/bridge/br_input.c | 5 +++--
1 files changed, 3 insertions(+), 2 deletions(-)

diff --git a/net/bridge/br_input.c b/net/bridge/br_input.c
index f06ee39..6be8d00 100644
--- a/net/bridge/br_input.c
+++ b/net/bridge/br_input.c
@@ -93,10 +93,11 @@ int br_handle_frame_finish(struct sk_buff *skb)
 skb2 = skb;

 br->dev->stats.multicast++;
-} else if ((dst = __br_fdb_get(br, dest)) && dst->is_local) {
+} else if ((dst = __br_fdb_get(br, dest)) != NULL) {
 skb2 = skb;
 /* Do not forward the packet since it's local. */
- skb = NULL;
+ skb = NULL;
 
 if (skb) {
-- 1.7.5.4

Subject: Re: [PATCH] bridge: Reset IPCB on forward non-local packets in
br_handle_frame_finish()
Posted by Vasily Averin on Wed, 02 Nov 2011 19:11:38 GMT

On 11/02/2011 11:08 PM, Vasily Averin wrote:
> if dst is not local br_handle_frame_finish() does not clone original skb and
> forgets to reset IPCB before return to IP stack. it can lead to stack corruption
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example of stack corruption
http://bugzilla.openvz.org/show_bug.cgi?id=2016
Signed-off-by: Vasily Averin <vvs@sw.ru>
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+if (dst->is_local) {
 skb = NULL;
 }
>
 if (skb) {
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Subject: Re: [PATCH] bridge: Reset IPCB on forward non-local packets in br_handle_frame_finish()
Posted by Stephen Hemminger on Wed, 02 Nov 2011 19:31:06 GMT
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On Wed, 02 Nov 2011 23:08:57 +0400
Vasily Averin <vvs@parallels.com> wrote:

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> Signed-off-by: Vasily Averin <vvs@sw.ru>
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> skb2 = skb;
>
> br->dev->stats.multicast++;
> } else if ((dst = __br_fdb_get(br, dest)) & dst->is_local) {
> +) else if ((dst = __br_fdb_get(br, dest)) != NULL) {
> skb2 = skb;
> /* Do not forward the packet since it's local. */
> skb = NULL;
> if (dst->is_local) {
> skb = NULL;
> }
>
> if (skb) {

What kernel version are you using? There were several previous fixes in br_netfilter to deal with this type of issue over the last year.

---

Subject: Re: [PATCH] bridge: Reset IPCB on forward non-local packets in br_handle_frame_finish()
Posted by Vasily Averin on Wed, 02 Nov 2011 20:03:53 GMT

On 11/02/2011 11:31 PM, Stephen Hemminger wrote:
> On Wed, 02 Nov 2011 23:08:57 +0400
> Vasily Averin <vvs@parallels.com> wrote:
> 
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Originally it was noticed on RHEL6-based kernel

You are right, in mainline this issue was fixed in br_nf_forward_ip() long time ago.

thank you,
Vasily Averin

---

Subject: Re: [PATCH] bridge: Reset IPCB on forward non-local packets in br_handle_frame_finish()
Posted by davem on Wed, 02 Nov 2011 20:09:05 GMT

On 11/02/2011 11:31 PM, Stephen Hemminger wrote:
> On Wed, 02 Nov 2011 23:08:57 +0400
> Vasily Averin <vvs@parallels.com> wrote:
> 
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From: Vasily Averin <vvs@parallels.com>
Date: Wed, 02 Nov 2011 23:08:57 +0400

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