Subject: [PATCH][IPVS] Don't leak sysctl tables if the scheduler registration fails
Posted by Pavel Emelianov on Mon, 03 Dec 2007 10:04:53 GMT
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In case we load lblc or lblcr module we can leak some sysctl
tables if the call to register_ip_vs_scheduler() fails.

I've looked at the register_ip_vs_scheduler() code and saw, that
the only reason to fail is the name collision, so I think that
with some 3rd party schedulers this becomes a relevant issue. No?

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

```
diff --git a/net/ipv4/ipvs/ip_vs_lblc.c b/net/ipv4/ipvs/ip_vs_lblc.c
index b843a11..ad89644 100644
--- a/net/ipv4/ipvs/ip_vs_lblc.c
+++ b/net/ipv4/ipvs/ip_vs_lblc.c
@@ -580,9 +580,14 @@ static struct ip_vs_scheduler ip_vs_lblc_scheduler =

 static int __init ip_vs_lblc_init(void)
 {
+ int ret;
+
  INIT_LIST_HEAD(&ip_vs_lblc_scheduler.n_list);
  sysctl_header = register_sysctl_table(lblc_root_table);
- return register_ip_vs_scheduler(&ip_vs_lblc_scheduler);
+ ret = register_ip_vs_scheduler(&ip_vs_lblc_scheduler);
+ if (ret)
+  unregister_sysctl_table(sysctl_header);
+ return ret;
 }


diff --git a/net/ipv4/ipvs/ip_vs_lblcr.c b/net/ipv4/ipvs/ip_vs_lblcr.c
index e5b323a..2a5ed85 100644
--- a/net/ipv4/ipvs/ip_vs_lblcr.c
+++ b/net/ipv4/ipvs/ip_vs_lblcr.c
@@ -769,9 +769,14 @@ static struct ip_vs_scheduler ip_vs_lblcr_scheduler =

 static int __init ip_vs_lblcr_init(void)
 {
+ int ret;
+
  INIT_LIST_HEAD(&ip_vs_lblcr_scheduler.n_list);
  sysctl_header = register_sysctl_table(lblcr_root_table);
- return register_ip_vs_scheduler(&ip_vs_lblcr_scheduler);
```

+ ret = register_ip_vs_scheduler(&ip_vs_lblcr_scheduler);
+ if (ret)
+ unregister_sysctl_table(sysctl_header);
+ return ret;
 }

Subject: Re: [PATCH][IPVS] Don't leak sysctl tables if the scheduler registration fails
Posted by Simon Horman on Tue, 04 Dec 2007 01:36:48 GMT
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On Mon, Dec 03, 2007 at 01:04:53PM +0300, Pavel Emelyanov wrote:
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I guess so. Though presumably register_ip_vs_scheduler() could
have other modes of failure in the future.

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

Acked-by: Simon Horman <horms@verge.net.au>

> ---
>
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> {
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> +
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> - return register_ip_vs_scheduler(&ip_vs_lblc_scheduler);
> + ret = register_ip_vs_scheduler(&ip_vs_lblc_scheduler);
> + if (ret)
> + unregister_sysctl_table(sysctl_header);
> + return ret;

```
>  }
>
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>
>  static int __init ip_vs_lblcr_init(void)
>  {
> + int ret;
> +
>    INIT_LIST_HEAD(&ip_vs_lblcr_scheduler.n_list);
>    sysctl_header = register_sysctl_table(lblcr_root_table);
> - return register_ip_vs_scheduler(&ip_vs_lblcr_scheduler);
> + ret = register_ip_vs_scheduler(&ip_vs_lblcr_scheduler);
> + if (ret)
> +  unregister_sysctl_table(sysctl_header);
> + return ret;
>  }
>
>
```

--
Horms

Subject: Re: [PATCH][IPVS] Don't leak sysctl tables if the scheduler registration fails

Posted by davem on Tue, 04 Dec 2007 08:43:50 GMT

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From: Simon Horman <horms@verge.net.au>
Date: Tue, 4 Dec 2007 10:36:48 +0900

> On Mon, Dec 03, 2007 at 01:04:53PM +0300, Pavel Emelyanov wrote:
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> have other modes of failure in the future.

>
> > Signed-off-by: Pavel Emelyanov <xemul@openvz.org>
>
> Acked-by: Simon Horman <horms@verge.net.au>

Applied, thanks.
