

[PATCH] xen: add error handling for xenbus_printf

6 messages

Zhouyang Jia <jiazhouyang09@gmail.com>
Cc: Zhouyang Jia <jiazhouyang09@gmail.com>; Boris Ostrovsky <boris.ostrovsky@oracle.com>; Juergen Gross <jgross@suse.com>; xen-devel@lists.xenproject.org, linux-kernel@vger.kernel.org

Mon, Jun 11, 2018 at 11:44 PM

When xenbus_printf fails, the lack of error-handling code may cause unexpected results.

This patch adds error-handling code after calling xenbus_printf.

Signed-off-by: Zhouyang Jia <jiazhouyang09@gmail.com>

drivers/xen/manage.c | 17 ++++++++-----
1 file changed, 14 insertions(+), 3 deletions(-)

```
diff --git a/drivers/xen/manage.c b/drivers/xen/manage.c
index 8835065..159694d 100644
--- a/drivers/xen/manage.c
+++ b/drivers/xen/manage.c
@@ -289,8 +289,15 @@ static void sysrq_handler(struct xenbus_watch *watch, const char *path,
     return;
 }

- if (sysrq_key != '0')
-     xenbus_printf(xbt, "control", "sysrq", "%c", '0');
+ if (sysrq_key != '0') {
+     err = xenbus_printf(xbt, "control", "sysrq", "%c", '0');
+     if (err)
+         pr_err("Error %d writing sysrq code in control/sysrq\n",
+             err);
+     xenbus_transaction_end(xbt, 1);
+     return;
+ }

err = xenbus_transaction_end(xbt, 0);
if (err == -EAGAIN)
@@ -342,7 +349,11 @@ static int setup_shutdown_watcher(void)
    continue;
    snprintf(node, FEATURE_PATH_SIZE, "feature-%s",
        shutdown_handlers[idx].command);
-     xenbus_printf(XBT_NIL, "control", node, "%u", 1);
+     err = xenbus_printf(XBT_NIL, "control", node, "%u", 1);
+     if (err) {
+         pr_err("Error %d writing %s\n", err, node);
+         return err;
+     }

    return 0;
--
2.7.4
```

Boris Ostrovsky <boris.ostrovsky@oracle.com>
To: Zhouyang Jia <jiazhouyang09@gmail.com>
Cc: Juergen Gross <jgross@suse.com>; xen-devel@lists.xenproject.org, linux-kernel@vger.kernel.org

Thu, Jun 14, 2018 at 5:57 PM

[Quoted text hidden]
Adding __func__ will make it easier trying to understand where the error is coming from. And for consistency, I'd add it to the one above as well.

-boris

Zhouyang Jia <jiazhouyang09@gmail.com>
To: Boris Ostrovsky <boris.ostrovsky@oracle.com>
Cc: Juergen Gross <jgross@suse.com>; xen-devel@lists.xenproject.org, Linux Kernel Mailing List <linux-kernel@vger.kernel.org>

Thu, Jun 14, 2018 at 7:33 PM

Hi,

Sorry, I can't find which xenbus_device to print. So I inherit the existing style and use pr_err.

I add __func__ in v2. If it needs to be changed, please let me know.

Thanks for your kind reply.

Best,
Zhouyang
[Quoted text hidden]

Zhouyang Jia <jiazhouyang09@gmail.com>
Cc: Zhouyang Jia <jiazhouyang09@gmail.com>; Boris Ostrovsky <boris.ostrovsky@oracle.com>; Juergen Gross <jgross@suse.com>; xen-devel@lists.xenproject.org, linux-kernel@vger.kernel.org

Thu, Jun 14, 2018 at 7:34 PM

When xenbus_printf fails, the lack of error-handling code may cause unexpected results.

This patch adds error-handling code after calling xenbus_printf.

Signed-off-by: Zhouyang Jia <jiazhouyang09@gmail.com>

v1->v2:
- Add __func__.

drivers/xen/manage.c | 18 ++++++++-----
1 file changed, 15 insertions(+), 3 deletions(-)

```
diff --git a/drivers/xen/manage.c b/drivers/xen/manage.c
index 8835065..c93d8ef 100644
--- a/drivers/xen/manage.c
+++ b/drivers/xen/manage.c
@@ -289,8 +289,15 @@ static void sysrq_handler(struct xenbus_watch *watch, const char *path,
     return;
 }

- if (sysrq_key != '0')
-     xenbus_printf(xbt, "control", "sysrq", "%c", '0');
+ if (sysrq_key != '0') {
+     err = xenbus_printf(xbt, "control", "sysrq", "%c", '0');
+     if (err)
+         pr_err("%s: Error %d writing sysrq in control/sysrq\n",
+             __func__, err);
+     xenbus_transaction_end(xbt, 1);
+     return;
+ }

err = xenbus_transaction_end(xbt, 0);
if (err == -EAGAIN)
@@ -342,7 +349,11 @@ static int setup_shutdown_watcher(void)
    continue;
    snprintf(node, FEATURE_PATH_SIZE, "feature-%s",
        shutdown_handlers[idx].command);
-     xenbus_printf(XBT_NIL, "control", node, "%u", 1);
+     err = xenbus_printf(XBT_NIL, "control", node, "%u", 1);
+     if (err) {
+         pr_err("%s: Error %d writing %s\n", __func__,
+             err, node);
+     }

    return 0;
--
```

[Quoted text hidden]

Boris Ostrovsky <boris.ostrovsky@oracle.com>
To: Zhouyang Jia <jiazhouyang09@gmail.com>
Cc: Juergen Gross <jgross@suse.com>; xen-devel@lists.xenproject.org, linux-kernel@vger.kernel.org

Fri, Jun 15, 2018 at 8:54 AM

On 06/14/2018 07:34 PM, Zhouyang Jia wrote:
> When xenbus_printf fails, the lack of error-handling code may
> cause unexpected results.
>
> This patch adds error-handling code after calling xenbus_printf.
>
> Signed-off-by: Zhouyang Jia <jiazhouyang09@gmail.com>

Reviewed-by: Boris Ostrovsky <boris.ostrovsky@oracle.com>

(I wasn't asking you to use xenbus_dev_error() for this patch. Only for the other two patches --- for scsi front and back).

Juergen Gross <jgross@suse.com>
To: Zhouyang Jia <jiazhouyang09@gmail.com>
Cc: Boris Ostrovsky <boris.ostrovsky@oracle.com>; xen-devel@lists.xenproject.org, linux-kernel@vger.kernel.org

Tue, Jun 19, 2018 at 9:02 AM

On 15/06/18 01:34, Zhouyang Jia wrote:
> When xenbus_printf fails, the lack of error-handling code may
> cause unexpected results.
>
> This patch adds error-handling code after calling xenbus_printf.
>
> Signed-off-by: Zhouyang Jia <jiazhouyang09@gmail.com>

Pushed to [xen/tip.git](#) for [linux-4.18](#)

Juergen