

[PATCH] scsi: qla4xxx: add error handling for try_module_get Zhouyang Jia <jiazhouyang09@gmail.com> Cc: Zhouyang Jia <jiazhouyang09@gmail.com>, QLogic-Storage-Upstream@qlogic.com, "James E.J. Bottomley" <jejb@linux.vnet.ibm.com>, "Martin K. Petersen" <martin.petersen@oracle.com>, linux-scsi@vger.kernet.org, linux-kernet@vger.kernet.org Tue, Jun 12, 2018 at 12:48 AM When try_module_get fails, the lack of error-handling code may cause unexpected results. This patch adds error-handling code after calling try_module_get Signed-off-by: Zhouyang Jia <jiazhouyang09@gmail.c

drivers/scsi/qla4xxx/ql4_os.c | 9 ++++++-1 file changed, 7 insertions(+), 2 deletions(-) diff --git a/drivers/scsi/qla4xxx/ql4_os.c b/drivers/scsi/qla4xxx/ql4_os.c index 0e13349.6b677ab 100644 index 0e13349.6b677ab 100644

-- aldrivers/scsi/qla4xxxd/q4_os.c

++b bdrivers/scsi/qla4xxxd/q4_os.c

@@ 7687,7 *7687,10 @@ static int qla4xxx_sysfs_ddb_logout_sid(struct iscsi_cls_session *cls_sess)

* to be seamless without actually destroying the

* session

* session

*/ iscsi_destroy_endpoint(ddb_entry->conn->ep); spin_lock_irqsave(&ha->hardware_lock, flags);
@@ -8970,7 +8973,9 @@ static void qla4xxx_destroy_fw_ddb_session(struct scsi_qla_host *ha)
* to be seamless without actually destroying the * session 2.7.4

Rangankar, Manish < Manish.Rangankar@cavium.com>

Tue, Jun 12, 2018 at 3:52 AM

To: Zhouyang Jia -sjiazhouyang09@gmail.com>
Cc: Dept-Eng QLogic Storage Upstream «QLogic-Storage-Upstream@cavium.com», "James E.J. Bottomley" -sjejb@linux.vnet.ibm.com>, "Martin K. Petersen" -martin.petersen@oracle.com>, "linux-scsi@vger.kernel.org" -linux-scsi@vger.kernel.org>, "linux-scri@vger.kernel.org>, "linux-scri@vger.kernel.or

Acked-by: Manish Rangankar <Manish.Rangankar@cavium.com>

James Bottomley <jejb@linux.vnet.ibm.com>
To: Zhouyang ila <jiazhouyang09@gmail.com>
Co: QLogic-Storage-Upstream@qlogic.com, "Martin K. Petersen" <martin.petersen@oracle.com>, linux-scsi@vger.kernel.org, linux-kernel@vger.kernel.org Tue, Jun 12, 2018 at 10:08 AM

On Tue, 2018-06-12 at 12:48 +0800, Zhouyang Jia wrote: > When try_module_get fails, the lack of error-handling code may > cause unexpected results. > This patch adds error-handling code after calling try_module_get. > Signed-off-by: Zhouyang Jia <jiazhouyang09@gmail.com drivers/scsi/qla4xxx/ql4_os.c | 9 ++++++- 1 file changed, 7 insertions(+), 2 deletions(-) > diff -git aldrivers/scsi/qla4xxx/ql4_os.c > b/drivers/scsi/qla4xxx/ql4_os.c > index 0e13a9.6B677ab 100644 > --- aldrivers/scsi/qla4xxx/ql4_os.c > ++ b/drivers/scsi/qla4xxx/ql4_os.c > @@ -7687.7 +7687.10 @@ static int qla4xxx_sysfs_ddb_logout_sid(struct > iscsi_cls_session *cls_sess)

* to be seamless without actually destroying the

* session >- try_module_get(qla4xxx_iscsi_transport.owner);
>+ if (!try_module_get(qla4xxx_iscsi_transport.owner))
>+ ql4_printk(KERN_WARNING, ha,
>+ "%s: cannot get module.\n", __func__);

This isn't error handling at all. If try_module_get() fails it means you're about to get the text segment freed from underneath you if the code can be executed concurrently with the module_exit function. The comment implies that qla4xxx operates with a zero module use count even when there are logged in sessions, so module_exit can race with logout (or indeed any other userspace initiation of latex) his means that the entire module reference counting of qla4xxx looks to be racy and wrong. Can we get a description of what the expected theoretical model is so we can validate (or invalidate) this theory?