
Subject: [PATCH 1/2][INET] Fix potential kfree on vmalloc-ed area of request_sock_queue

Posted by [Pavel Emelianov](#) on Wed, 14 Nov 2007 18:08:29 GMT

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The request_sock_queue's listen_opt is either vmalloc-ed or kmalloc-ed depending on the number of table entries. Thus it is expected to be handled properly on free, which is done in the reqsk_queue_destroy().

However the error path in inet_csk_listen_start() calls the lite version of reqsk_queue_destroy, called __reqsk_queue_destroy, which calls the kfree unconditionally.

Fix this and move the __reqsk_queue_destroy into a .c file as it looks too big to be inline.

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

diff --git a/include/net/request_sock.h b/include/net/request_sock.h

index 7aed02c..0a954ee 100644

--- a/include/net/request_sock.h

+++ b/include/net/request_sock.h

@@ -136,11 +136,7 @@ static inline struct listen_sock *reqsk_queue_yank_listen_sk(struct request_sock
 return lopt;
}

-static inline void __reqsk_queue_destroy(struct request_sock_queue *queue)

#{
- kfree(reqsk_queue_yank_listen_sk(queue));
-}

-
+extern void __reqsk_queue_destroy(struct request_sock_queue *queue);
extern void reqsk_queue_destroy(struct request_sock_queue *queue);

static inline struct request_sock *

diff --git a/net/core/request_sock.c b/net/core/request_sock.c

index 5f0818d..12a15f5 100644

--- a/net/core/request_sock.c

+++ b/net/core/request_sock.c

@@ -71,6 +71,20 @@ int reqsk_queue_alloc(struct request_sock_queue *queue,

EXPORT_SYMBOL(reqsk_queue_alloc);

+void __reqsk_queue_destroy(struct request_sock_queue *queue)

```
+{
+ struct listen_sock *lopt = reqsk_queue_yank_listen_sk(queue);
+ size_t lopt_size = sizeof(struct listen_sock) +
+ lopt->nr_table_entries * sizeof(struct request_sock *);
+
+ if (lopt_size > PAGE_SIZE)
+ vfree(lopt);
+ else
+ kfree(lopt);
+}
+
+EXPORT_SYMBOL(__reqsk_queue_destroy);
+
+void reqsk_queue_destroy(struct request_sock_queue *queue)
+{
+ /* make all the listen_opt local to us */
```
