



index : kernel/git/stable/linux.git

master



switch

Linux kernel stable tree

Stable Group

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search

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committer Greg Kroah-Hartman <gregkh@linuxfoundation.org> 2025-05-02 07:58:57 +0200
commit [1aec4d14cf81b7b3e7b69eb1cfa94144eed7138e](#) (patch)
tree [c2a53011840191dc32d8f345ba89cb14947c3cb5](#)
parent [0fc403192dcc8def1f6284959141608ac4c86699](#) (diff)
download [linux-1aec4d14cf81b7b3e7b69eb1cfa94144eed7138e.tar.gz](#)

diff options

context:

3



space:

include



mode:

unified



ksmbd: fix use-after-free in __smb2_lease_break_noti()

[Upstream commit 21a4e47578d44c6b37c4fc4aba8ed7cc8dbb13de]

Move tcp_transport free to ksmbd_conn_free. If ksmbd connection is referenced when ksmbd server thread terminates, It will not be freed, but conn->tcp_transport is freed. __smb2_lease_break_noti can be performed asynchronously when the connection is disconnected. __smb2_lease_break_noti calls ksmbd_conn_write, which can cause use-after-free when conn->ksmbd_transport is already freed.

Cc: stable@vger.kernel.org
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Diffstat

```
-rw-r--r-- fs/smb/server/connection.c 4  
-rw-r--r-- fs/smb/server/transport_tcp.c 14  
-rw-r--r-- fs/smb/server/transport_tcp.h 1
```

3 files changed, 13 insertions, 6 deletions

diff --git a/fs/smb/server/connection.c b/fs/smb/server/connection.c

index b0f69cee96a758..7aaea71a4f2061 100644

--- a/fs/smb/server/connection.c

+++ b/fs/smb/server/connection.c

@@ -39,8 +39,10 @@ void ksmbd_conn_free(struct ksmbd_conn *conn)

xa_destroy(&conn->sessions);

kvfree(conn->request_buf);

kfree(conn->preauth_info);

- if (atomic_dec_and_test(&conn->refcnt))

+ if (atomic_dec_and_test(&conn->refcnt)) {

+ ksmbd_free_transport(conn->transport);

+ kfree(conn);

+ }

}

/**

diff --git a/fs/smb/server/transport_tcp.c b/fs/smb/server/transport_tcp.c

index 7f38a3c3f5bd69..abedf510899a74 100644

```

--- a/fs/smb/server/transport_tcp.c
+++ b/fs/smb/server/transport_tcp.c
@@ -93,17 +93,21 @@ static struct tcp_transport *alloc_transport(struct socket *client_sk)
    return t;
}

-static void free_transport(struct tcp_transport *t)
+void ksmbd_free_transport(struct ksmbd_transport *kt)
{
-    kernel_sock_shutdown(t->sock, SHUT_RDWR);
-    sock_release(t->sock);
-    t->sock = NULL;
+    struct tcp_transport *t = TCP_TRANS(kt);

-    ksmbd_conn_free(KSMBD_TRANS(t)->conn);
+    sock_release(t->sock);
+    kfree(t->iov);
+    kfree(t);
}

+static void free_transport(struct tcp_transport *t)
+{
+    kernel_sock_shutdown(t->sock, SHUT_RDWR);
+    ksmbd_conn_free(KSMBD_TRANS(t)->conn);
+}
+
+/**
+ * kvec_array_init() - initialize a IO vector segment
+ * @new:      IO vector to be initialized
+
diff --git a/fs/smb/server/transport_tcp.h b/fs/smb/server/transport_tcp.h
index 8c9aa624cfe3ca..1e51675ee1b209 100644
--- a/fs/smb/server/transport_tcp.h
+++ b/fs/smb/server/transport_tcp.h
@@ -8,6 +8,7 @@

int ksmbd_tcp_set_interfaces(char *ifc_list, int ifc_list_sz);
struct interface *ksmbd_find_netdev_name_iface_list(char *netdev_name);
+void ksmbd_free_transport(struct ksmbd_transport *kt);
int ksmbd_tcp_init(void);
void ksmbd_tcp_destroy(void);

```