
Subject: [PATCH 3/4] user namespaces: enforce CAP_NS_OVERRIDE for cross-namespace kill

Posted by [serue](#) on Mon, 28 Jan 2008 19:09:58 GMT

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>From 491e532e336a98b1b9d1ecda6f4160d0c0adde89 Mon Sep 17 00:00:00 2001

From: sergeh@us.ibm.com <sergeh@us.ibm.com>

Date: Thu, 29 Nov 2007 08:18:16 -0800

Subject: [PATCH 3/4] user namespaces: enforce CAP_NS_OVERRIDE for cross-namespace kill

Require CAP_NS_OVERRIDE to 'kill' across user namespaces.

If the signaling task is exiting, then current->nsproxy is NULL. Since we are only notifying a parent of our death, we permit the signal.

If the target task is exiting, our signal doesn't matter anyway.

Signed-off-by: Serge Hallyn <serue@us.ibm.com>

kernel/signal.c | 23 +++++
1 files changed, 23 insertions(+), 0 deletions(-)

diff --git a/kernel/signal.c b/kernel/signal.c
index 280bccb..de19433 100644

--- a/kernel/signal.c

+++ b/kernel/signal.c

@@ -531,9 +531,32 @@ static int check_kill_permission(int sig, struct siginfo *info,
return error;

if (info == SEND_SIG_NOINFO || (!is_si_special(info) && SI_FROMUSER(info))) {

+ struct nsproxy *nsproxy;

+ struct user_namespace *my_user_ns = NULL, *t_user_ns = NULL;

+

error = audit_signal_info(sig, t); /* Let audit system see the signal */

if (error)

return error;

+

+ /*

+ * if current->nsproxy is NULL, then we are exiting and
+ * are just sending an exit signal to our parent.

+ * Uid may be wrong under certain circumstances, but

+ * global init shouldn't care, and a container creation

+ * program should know what it is doing.

+ * If target is exiting then it doesn't matter anyway.

+ */

+ rcu_read_lock();

```
+ nsproxy = task_nsproxy(t);
+ if (nsproxy)
+   t_user_ns = nsproxy->user_ns;
+ rcu_read_unlock();
+ if (current->nsproxy)
+   my_user_ns = current->nsproxy->user_ns;
+ if (my_user_ns && t_user_ns && my_user_ns != t_user_ns
+   && !(capable(CAP_KILL) && capable(CAP_NS_OVERRIDE)))
+   return -EPERM;
+
+   error = -EPERM;
+   if (((sig != SIGCONT) ||
+       (task_session_nr(current) != task_session_nr(t)))
--
1.5.1
```

Containers mailing list
Containers@lists.linux-foundation.org
<https://lists.linux-foundation.org/mailman/listinfo/containers>
