Subject: [RFC] [PATCH 8/8] userns: oom_kill: remove uid==0 checks Posted by serue on Fri, 07 Dec 2007 19:16:00 GMT

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>From a5fd2d7c75168076dc6b4b94ea8cda529fc506b1 Mon Sep 17 00:00:00 2001

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

Date: Wed, 5 Dec 2007 14:07:40 -0800

Subject: [RFC] [PATCH 8/8] userns: oom_kill: remove uid==0 checks

Root processes are considered more important when out of memory and killing processes. The check for CAP_SYS_ADMIN was augmented with a check for uid==0 or euid==0.

There are several possible ways to look at this:

- uid comparisons are unnecessary, trust CAP_SYS_ADMIN alone. However CAP_SYS_RESOURCE is the one that really means "give me extra resources" so allow for that as well.
- 2. Any privileged code should be protected, but uid is not an indication of privilege. So we should check whether any capabilities are active in pP.
- 3. uid==0 makes processes on the host as well as in containers more important, so we should keep the existing checks.
- 4. uid==0 makes processes only on the host more important, even without any capabilities. So we should be keeping the (uid==0||euid==0) check but only when userns==&init_user_ns.

I'm following number 1 here.

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

mm/oom_kill.c | 2 +-
1 files changed, 1 insertions(+), 1 deletions(-)

diff --git a/mm/oom_kill.c b/mm/oom_kill.c index 016127e..9fd8d5d 100644
--- a/mm/oom_kill.c
+++ b/mm/oom_kill.c

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/* 1.5.1

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