Subject: [PATCH 0/3] capabilities: per-process capbset Posted by serue on Mon, 01 Oct 2007 14:40:31 GMT

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Here is a new per-process capability bounding set patchset which I expect to send to linux-kernel soon. It makes the capbset per-process. A process can only permanently remove bits from it's bounding set, not add them. To remove bits, CAP_SYS_ADMIN is currently needed. Maybe that's not the best choice, but some privilege should probably be required.

The intent is to allow a process tree to start with certain capabilities, i.e. CAP_MKNOD, permanently removed, so that running a setuid binary or one with file capabilities will still not result in those capabilities. The immediate use case for this is containers/virtual servers.

I am not taking the task_capability_lock during cap_prctl_setbset(), just as it is not taken when capabilities are calculated during fork. That means it can race with another task doing capsetp() on it, and with capgetp(). I'm still looking for comments on whether the fix I sent out last week is correct. If it is, then I'll take the task_capability_lock during cap_prctl_setbset().

thanks, -serge

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