Subject: Re: [patch -mm 08/17] nsproxy: add hashtable Posted by serue on Mon, 11 Dec 2006 22:01:15 GMT View Forum Message <> Reply to Message

Quoting Eric W. Biederman (ebiederm@xmission.com): > "Serge E. Hallyn" <serue@us.ibm.com> writes: > > Quoting Eric W. Biederman (ebiederm@xmission.com): > > > Yeah, that occurred to me, but it doesn't seem like we can possibly make > > sufficient guarantees to the client to make this worthwhile. > > > > I'd love to be wrong about that, but if nothing else we can't prove to > > the client that they're running on an unhacked host. So the host admin > > will always have to be trusted. > To some extent that is true. Although all security models we have

- > currently fall down if you hack the kernel, or run your kernel
- > in a hacked virtual environment. It would be nice if under normal
- > conditions you could mount an encrypted filesystem only in a container
- > and not have concerns of those files escaping.

Hmm, well perhaps I'm being overly pessimistic - IBM research did have a demo based on TPM of remote attestation, which may be usable for ensuring that you're connecting to a service on your virtual machine on a certain (unhacked) kernel on particular hardware, in which case what you're talking about may be possible - given a stringent initial environment (i.e. not the 'gimme \$20/month for a hosted partition in arizona' environment).

Given that, perhaps having a virtual machine with access to encrypted storage - safe from the host machine admins - may not be unattainable after all. And given that, it would be worth designing the ns_enter() system call so that a parent cannot enter some child namespace.

> Which would probably be a matter of having a separate uid ns and not > allowing process outside of your container to have any permissions in > that filesystem.

Yup. Or even just a separate uid ns and an ecryptfs partition, so that the host can back up the encrypted data incrementally (per file, i.e. not just the whole dmcrypted loop file).

-serge

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