Subject: Re: [RFC] [PATCH 0/4] uid_ns: introduction Posted by Herbert Poetzl on Wed, 08 Nov 2006 21:27:01 GMT View Forum Message <> Reply to Message

On Wed, Nov 08, 2006 at 01:34:09PM -0700, Eric W. Biederman wrote: > Trond Myklebust <trond.myklebust@fys.uio.no> writes: > > On Wed, 2006-11-08 at 01:52 +0100, Herbert Poetzl wrote: >>> On Mon, Nov 06, 2006 at 10:18:14PM -0600, Serge E. Hallyn wrote: >>> Cedric has previously sent out a patchset >>> (http://lists.osdl.org/pipermail/containers/2006-August/000078.html) >>> > impplementing the very basics of a user namespace. It ignores >>> > filesystem access checks, so that uid 502 in one namespace could >>> access files belonging to uid 502 in another namespace, if the >>> containers were so set up. > >> > >>> This isn't necessarily bad, since proper container setup should >>> prevent problems. However there has been concern, so here is a >>> patchset which takes one course in addressing the concern. > >> > >>> It adds a user namespace pointer to every superblock, and to >>> enhances fsuid equivalence checks with a (inode->i sb->s uid ns == >>> current->nsproxy->uid_ns) comparison. > >> >>> I don't consider that a good idea as it means that a filesystem >>> (or to be precise, a superblock) can only belong to one specific >>> namespace, which is not very useful for shared setups > >> >>> Linux-VServer provides a mechanism to do per inode (and per >>> nfs mount) tagging for similar 'security' and more important >>> for disk space accounting and limiting, which permits to have >>> different disk limits, quota and access on a shared partition > >> >>> i.e. I do not like it > > >> Indeed. I discussed this with Eric at the kernel summit this summer and >> explained my reservations. As far as I'm concerned, tagging superblocks >> with a container label is an unacceptable hack since it completely > > breaks NFS caching semantics. > As I recall there are two basic issues. > Putting the default on the mount structure instead of the superblock > for filesystems that are not uid namespaces aware sounded reasonable, > and allowed certain classes of sharing between namespaces where they > agreed on a subset of the uids (especially for read-only data).

yes, that is especially interesting for --bind mounts

when you 'know' that you will dedicate a certain sub-tree to one context/guest

- > The other was to have a mechanism that allows a uid namespace aware
- > filesystem (like some of the distributed filesystems can be) to perform
- > the mapping on their own.

Linux-VServer currently provides different 'tagging' methods to make filesystems context aware, some of them are based on reusing some (upper 8/16) bits of uid and gid, others store the context id inside (currently) unused places in the on disk inodes

those are currently working for ext2/3, jfs, xfs, reiser and ocfs2 as well as nfs

HTH, Herbert

- > Some mostly this is a case of simply not going far enough in the uid
- > namespace direction.

>

> Eric

Containers mailing list

Containers@lists.osdl.org https://lists.osdl.org/mailman/listinfo/containers