Posted by serue on Mon, 21 Jan 2008 20:41:21 GMT View Forum Message <> Reply to Message Quoting Miklos Szeredi (miklos@szeredi.hu): > From: Miklos Szeredi <mszeredi@suse.cz> > Don't require the "user\_id=" and "group\_id=" options for unprivileged mounts, > but if they are present, verify them for sanity. > > Disallow the "allow\_other" option for unprivileged mounts. > FUSE was designed from the beginning to be safe for unprivileged > users. This has also been verified in practice over many years, with > some distributions enabling unprivileged FUSE mounts by default. > > However there are some properties of FUSE, that could make it unsafe > for certain situations (e.g. multiuser system with untrusted users): - It is not always possible to use kill(2) (not even with SIGKILL) to terminate a process using a FUSE filesystem. However it is > possible to use any of the following instead: > o kill the filesystem daemon > o use forced umounting > o use the "fusectl" control filesystem > > - As a special case of the above, killing a self-deadlocked FUSE process is not possible, and even killall5 will not terminate it. > - Due to the design of the process freezer, a hanging (due to network problems, etc) or malicious filesystem may prevent suspending to ram or hibernation to succeed. This is not actually unique to > FUSE, as any hanging network filesystem will have the same affect. > > If the above could pose a threat to the system, it is recommended, > that the '/proc/sys/fs/types/fuse/safe' sysctl tunable is not turned > on, and/or '/dev/fuse' is not made world-readable and writable. > Signed-off-by: Miklos Szeredi <mszeredi@suse.cz> I was going to say "this should of course be acked by a fuse maintainer", then I look at MAINTAINERS:) So never mind. Acked-by: Serge Hallyn <serue@us.ibm.com> > Index: linux/fs/fuse/inode.c

Subject: Re: [patch 08/10] unprivileged mounts: make fuse safe

```
> --- linux.orig/fs/fuse/inode.c 2008-01-16 13:24:52.000000000 +0100
> +++ linux/fs/fuse/inode.c 2008-01-16 13:25:10.000000000 +0100
> @ @ -357,6 +357,19 @ @ static int parse_fuse_opt(char *opt, str
> d->max read = \sim0:
> d->blksize = 512;
>
> + /*
> + * For unprivileged mounts use current uid/gid. Still allow
> + * "user id" and "group id" options for compatibility, but
> + * only if they match these values.
> + */
> + if (!capable(CAP_SYS_ADMIN)) {
> + d->user_id = current->uid;
> + d->user_id_present = 1;
> + d->group_id = current->gid;
> + d->group id present = 1:
> + }
> while ((p = strsep(&opt, ",")) != NULL) {
  int token;
   int value:
> @ @ -385,6 +398,8 @ @ static int parse_fuse_opt(char *opt, str
   case OPT_USER_ID:
    if (match_int(&args[0], &value))
>
    return 0:
> + if (d->user_id_present && d->user_id != value)
> + return 0;
    d->user id = value;
    d->user id present = 1;
    break:
>
> @ @ -392,6 +407,8 @ @ static int parse_fuse_opt(char *opt, str
   case OPT_GROUP_ID:
    if (match_int(&args[0], &value))
>
    return 0;
> + if (d->group_id_present && d->group_id != value)
> + return 0:
    d->group_id = value;
    d->group_id_present = 1;
    break;
> @ @ -596,6 +613,10 @ @ static int fuse_fill_super(struct super_
  if (!parse_fuse_opt((char *) data, &d, is_bdev))
   return -EINVAL;
>
> + /* This is a privileged option */
> + if ((d.flags & FUSE_ALLOW_OTHER) && !capable(CAP_SYS_ADMIN))
> + return -EPERM;
```

```
> +
> if (is_bdev) {
> #ifdef CONFIG_BLOCK
> if (!sb_set_blocksize(sb, d.blksize))
> --
> -
> To unsubscribe from this list: send the line "unsubscribe linux-fsdevel" in
> the body of a message to majordomo@vger.kernel.org
> More majordomo info at http://vger.kernel.org/majordomo-info.html

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