
Subject: [PATCH] proc: Do not invalidate dentries with submounts

Posted by [ebiederm](#) on Thu, 06 Dec 2007 10:22:50 GMT

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If the dcache path to a mount point is ever broken it becomes impossible to unmount it, and we leak a vfsmount. Therefore it is not valid to invalidate dentries with mount points at or below them.

This patch uses the have_submounts test as the other network filesystem revalidate routines do.

Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>

fs/proc/base.c | 9 ++++++++

fs/proc/generic.c | 5 +++++

2 files changed, 14 insertions(+), 0 deletions(-)

diff --git a/fs/proc/base.c b/fs/proc/base.c

index 0e71707..552d752 100644

--- a/fs/proc/base.c

+++ b/fs/proc/base.c

@@ -1216,6 +1216,9 @@ static int pid_revalidate(struct dentry *dentry, struct nameidata *nd)

put_task_struct(task);

return 1;

}

+ /* Force validity if something is mounted under us */

+ if (inode && S_ISDIR(inode->i_mode) && have_submounts(dentry))

+ return 1;

d_drop(dentry);

return 0;

}

@@ -1393,6 +1396,9 @@ static int tid_fd_revalidate(struct dentry *dentry, struct nameidata *nd)

}

put_task_struct(task);

}

+ /* Force validity if something is mounted under us */

+ if (inode && S_ISDIR(inode->i_mode) && have_submounts(dentry))

+ return 1;

d_drop(dentry);

return 0;

}

@@ -2056,6 +2062,9 @@ static int proc_base_revalidate(struct dentry *dentry, struct nameidata *nd)

put_task_struct(task);

return 1;

}

+ /* Force validity if something is mounted under us */

+ if (inode && S_ISDIR(inode->i_mode) && have_submounts(dentry))

```
+ return 1;
  d_drop(dentry);
  return 0;
}
diff --git a/fs/proc/generic.c b/fs/proc/generic.c
index 4abd568..233dcdc 100644
--- a/fs/proc/generic.c
+++ b/fs/proc/generic.c
@@ -370,6 +370,11 @@ static int proc_delete_dentry(struct dentry * dentry)

static int proc_revalidate_dentry(struct dentry *dentry, struct nameidata *nd)
{
+ struct inode *inode = dentry->d_inode;
+
+ /* Force validity if something is mounted under us */
+ if (inode && S_ISDIR(inode->i_mode) && have_submounts(dentry))
+ return 1;
  d_drop(dentry);
  return 0;
}
--
1.5.3.rc6.17.g1911
```
