
Subject: [PATCH] /proc/*/environ: wrong placing of ptrace_may_attach() check
Posted by [Alexey Dobriyan](#) on Mon, 28 May 2007 13:33:13 GMT
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Signed-off-by: Alexey Dobriyan <adobriyan@sw.ru>

fs/proc/base.c | 11 ++++++---
1 file changed, 8 insertions(+), 3 deletions(-)

```
--- a/fs/proc/base.c
+++ b/fs/proc/base.c
@@ -204,12 +204,17 @@ static int proc_pid_environ(struct task_
     int res = 0;
     struct mm_struct *mm = get_task_mm(task);
     if (mm) {
-        unsigned int len = mm->env_end - mm->env_start;
+        unsigned int len;
+
+        res = -ESRCH;
+        if (!ptrace_may_attach(task))
+            goto out;
+
+        len = mm->env_end - mm->env_start;
         if (len > PAGE_SIZE)
             len = PAGE_SIZE;
         res = access_process_vm(task, mm->env_start, buffer, len, 0);
-        if (!ptrace_may_attach(task))
-            res = -ESRCH;
+out:
         mmput(mm);
     }
     return res;
```

Subject: Re: [PATCH] /proc/*/environ: wrong placing of ptrace_may_attach() check
Posted by [Andrew Morton](#) on Wed, 30 May 2007 00:16:23 GMT
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On Mon, 28 May 2007 17:41:57 +0400
Alexey Dobriyan <adobriyan@sw.ru> wrote:

> Signed-off-by: Alexey Dobriyan <adobriyan@sw.ru>

Better changelogs, please.

> --- a/fs/proc/base.c
> +++ b/fs/proc/base.c

```

> @@ -204,12 +204,17 @@ static int proc_pid_environ(struct task_
> int res = 0;
> struct mm_struct *mm = get_task_mm(task);
> if (mm) {
> - unsigned int len = mm->env_end - mm->env_start;
> + unsigned int len;
> +
> + res = -ESRCH;
> + if (!ptrace_may_attach(task))
> + goto out;
> +
> + len = mm->env_end - mm->env_start;
> if (len > PAGE_SIZE)
> len = PAGE_SIZE;
> res = access_process_vm(task, mm->env_start, buffer, len, 0);
> - if (!ptrace_may_attach(task))
> - res = -ESRCH;
> +out:
> mmpu(mm);
> }
> return res;

```

What's wrong with the existing code? It's a bit dopey-looking and can, I guess, permit a task to cause a pagefault in an mm which it doesn't have permission to read from. But is there some more serious problem being fixed here?

I shouldn't have to ask this stuff.

Subject: Re: [PATCH] /proc/*/environ: wrong placing of ptrace_may_attach() check
 Posted by [Alexey Dobriyan](#) on Wed, 30 May 2007 08:31:03 GMT

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On Tue, May 29, 2007 at 05:16:23PM -0700, Andrew Morton wrote:

> On Mon, 28 May 2007 17:41:57 +0400

> Alexey Dobriyan <adobriyan@sw.ru> wrote:

```

> > --- a/fs/proc/base.c
> > +++ b/fs/proc/base.c
> > @@ -204,12 +204,17 @@ static int proc_pid_environ(struct task_
> > int res = 0;
> > struct mm_struct *mm = get_task_mm(task);
> > if (mm) {
> > - unsigned int len = mm->env_end - mm->env_start;
> > + unsigned int len;
> > +
> > + res = -ESRCH;

```

```
> > + if (!ptrace_may_attach(task))
> > + goto out;
> > +
> > + len = mm->env_end - mm->env_start;
> >   if (len > PAGE_SIZE)
> >     len = PAGE_SIZE;
> >   res = access_process_vm(task, mm->env_start, buffer, len, 0);
> > - if (!ptrace_may_attach(task))
> > -   res = -ESRCH;
> > +out:
> >   mmpout(mm);
> > }
> > return res;
>
> What's wrong with the existing code? It's a bit dopey-looking and can, I
> guess, permit a task to cause a pagefault in an mm which it doesn't have
> permission to read from. But is there some more serious problem being
> fixed here?
```

I think not, because environment will be copied from target task, stay in kernel tmp buffer, but not copied to target buffer due to -ESRCH. But such code is asking for problems.
