Subject: NFS-client patch
Posted by Groening on Fri, 05 May 2006 05:04:18 GMT
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We have a patch by dev to make NFS-client work in VPS:

```
diff -r -u linux-2.6.16-ovz/arch/i386/kernel/process.c
linux-2.6.16-ovz_with_nfs/arch/i386/kernel/process.c
--- linux-2.6.16-ovz/arch/i386/kernel/process.c 2006-04-14 12:53:49.000000000 +0000

+++ linux-2.6.16-ovz_with_nfs/arch/i386/kernel/process.c        2006-04-14 13:01:23.000000000
+0000
@@ -341,13 +341,6 @@

 {

        struct pt_regs regs;



-       /* Don't allow kernel_thread() inside VE */

-       if (!ve_is_super(get_exec_env())) {

-               printk("kernel_thread call inside VE\n");

-               dump_stack();

-               return -EPERM;

-       }

-

        memset(&regs, 0, sizeof(regs));



        regs.ebx = (unsigned long) fn;

diff -r -u linux-2.6.16-ovz/fs/nfs/inode.c linux-2.6.16-ovz_with_nfs/fs/nfs/inode.c

--- linux-2.6.16-ovz/fs/nfs/inode.c     2006-04-14 12:53:17.000000000 +0000

+++ linux-2.6.16-ovz_with_nfs/fs/nfs/inode.c    2006-04-14 12:58:40.000000000 +0000

@@ -1721,7 +1721,7 @@

        .name           = "nfs",
```

```
        .get_sb         = nfs_get_sb,
        .kill_sb        = nfs_kill_super,
-       .fs_flags       = FS_ODD_RENAME|FS_REVAL_DOT|FS_BINARY_MOUNTDATA,
+       .fs_flags       = FS_ODD_RENAME|FS_REVAL_DOT|FS_BINARY_MOUNTDATA|FS_VIRTUALIZED,
 };

 #ifdef CONFIG_NFS_V4
diff -r -u linux-2.6.16-ovz/kernel/exit.c linux-2.6.16-ovz_with_nfs/kernel/exit.c
--- linux-2.6.16-ovz/kernel/exit.c      2006-04-14 12:53:49.000000000 +0000
+++ linux-2.6.16-ovz_with_nfs/kernel/exit.c     2006-04-14 13:00:32.000000000 +0000
@@ -276,9 +276,6 @@
 {
        struct task_struct *curr = current->group_leader;

-       WARN_ON(is_virtual_pid(pgrp));
-       WARN_ON(is_virtual_pid(session));
-
        if (curr->signal->session != session) {
                detach_pid(curr, PIDTYPE_SID);
                curr->signal->session = session;
diff -r -u linux-2.6.16-ovz/net/sunrpc/rpc_pipe.c linux-2.6.16-ovz_with_nfs/net/sunrpc/rpc_pipe.c
--- linux-2.6.16-ovz/net/sunrpc/rpc_pipe.c      2006-04-14 12:53:20.000000000 +0000
+++ linux-2.6.16-ovz_with_nfs/net/sunrpc/rpc_pipe.c     2006-04-14 12:59:46.000000000 +0000
```

```
@@ -824,6 +824,7 @@
        .name           = "rpc_pipefs",
        .get_sb         = rpc_get_sb,
        .kill_sb        = kill_litter_super,
+       .fs_flags       = FS_VIRTUALIZED,
 };


 static void
```

and this work, but if we apply patch where will be removed piece:

```
diff -r -u linux-2.6.16-ovz/arch/i386/kernel/process.c
linux-2.6.16-ovz_with_nfs/arch/i386/kernel/process.c
--- linux-2.6.16-ovz/arch/i386/kernel/process.c 2006-04-14 12:53:49.000000000 +0000
+++ linux-2.6.16-ovz_with_nfs/arch/i386/kernel/process.c        2006-04-14 13:01:23.000000000
+0000
@@ -341,13 +341,6 @@
 {
        struct pt_regs regs;

-       /* Don't allow kernel_thread() inside VE */
-       if (!ve_is_super(get_exec_env())) {
-               printk("kernel_thread call inside VE\n");
-               dump_stack();
-               return -EPERM;
-       }
-
        memset(&regs, 0, sizeof(regs));
```

regs.ebx = (unsigned long) fn;
this patch also will be works.
Attention! Questions:
1) If this patch work, why it don't included in distrbutive?
2) Why if we removed piece, which turn on kernel threads in VPS, this patch is also works?
3) And why in openvz turned off kernel threads? (more technical details please)

Subject: Re: NFS-client patch
Posted by Vasily Tarasov on Fri, 05 May 2006 06:11:09 GMT
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> 2) Why if we removed piece, which turn on kernel threads in VPS, this patch is also works?

This patch was ported from 2.4 kernel, and there it's neccesary for nfs to run kernel threads.

> 3) And why in openvz turned off kernel threads? (more technical details please)

AFAIK, for security reasons.
