
Subject: [PATCH][DOCUMENTATION] The namespaces compatibility list doc
Posted by [Pavel Emelianov](#) on Fri, 16 Nov 2007 09:34:44 GMT
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>From time to time people begin discussions about how the namespaces are working/going-to-work together.

Ted T'so proposed to create some document that describes what problems user may have when he/she creates some new namespace, but keeps others shared. I liked this idea, so here's the initial version of such a document with the problems I currently have in mind and can describe somewhat audibly - the "namespaces compatibility list".

The Documentation/namespaces/ directory is about to contain more docs about the namespaces stuff.

Thanks to Cedirc for notes and spell checks on the doc.

Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

commit 83061c56e1c4dcd54d48a62b108d219a7f5279a0
Author: Pavel <pavel@xemulnb.sw.ru>
Date: Fri Nov 16 12:25:53 2007 +0300

Namespaces compatibility list

```
diff --git a/Documentation/00-INDEX b/Documentation/00-INDEX
index 910e511..3ead06b 100644
--- a/Documentation/00-INDEX
+++ b/Documentation/00-INDEX
@@ -262,6 +262,8 @@ mtrr.txt
- how to use PPro Memory Type Range Registers to increase performance.
mutex-design.txt
- info on the generic mutex subsystem.
+namespaces/
+ - directory with various information about namespaces
nbd.txt
- info on a TCP implementation of a network block device.
netlabel/
diff --git a/Documentation/namespaces/compatibility-list.txt
b/Documentation/namespaces/compatibility-list.txt
new file mode 100644
index 0000000..9c9e5c1
--- /dev/null
+++ b/Documentation/namespaces/compatibility-list.txt
```

@@ -0,0 +1,33 @@

+ Namespaces compatibility list

+

+This document contains the information about the problems user

+may have when creating tasks living in different namespaces.

+

+Here's the summary. This matrix shows the known problems, that

+occur when tasks share some namespace (the columns) while living

+in different other namespaces (the rows):

+

+ UTS IPC VFS PID User Net

+UTS X

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+VFS X

+PID 1 1 X

+User 2 X

+Net X

+

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+ object inside the kernel. E.g. semaphore with ipcid or

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+ In both cases, tasks shouldn't try exposing this id to some

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+ or IPC shmем/message. The fact is that this ID is only valid

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+2. Intentionnaly, two equal user ids in different user namespaces

+ should not be equal from the VFS point of view. In other

+ words, user 10 in one user namespace shouldn't have the same

+ access permissions to files, belonging to user 10 in another

+ namespace. But currently this is not so.

+

Containers mailing list

Containers@lists.linux-foundation.org

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Subject: Re: [PATCH][DOCUMENTATION] The namespaces compatibility list doc

Posted by [Daniel Lezcano](#) on Fri, 16 Nov 2007 15:52:34 GMT

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Pavel Emelyanov wrote:

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> Signed-off-by: Pavel Emelyanov <xemul@openvz.org>
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> Author: Pavel <pavel@xemulnb.sw.ru>
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> +

3. IPC and User

Two processes running in different user namespaces but with the same
 uids can access with the same permissions to the IPC created by one or
 other process

Subject: Re: [PATCH][DOCUMENTATION] The namespaces compatibility list doc
Posted by [Pavel Emelianov](#) on Fri, 16 Nov 2007 16:11:25 GMT
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Daniel Lezcano wrote:

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>> Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

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>> ---

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>> Author: Pavel <pavel@xemulnb.sw.ru>

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> VFS X
> PID 1 1 X
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> 3. IPC and User
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> Two processes running in different user namespaces but with the same
> uids can access with the same permissions to the IPC created by one or
> other process

Different user and equal IPC is where the row UID and column
IPC cross, not the vice versa.

Anything, thanks, please send an incremental patch if Andrew
accepts this one.

Thanks,
Pavel

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Subject: Re: [PATCH][DOCUMENTATION] The namespaces compatibility list doc
Posted by [Randy Dunlap](#) on Fri, 16 Nov 2007 16:48:20 GMT
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On Fri, 16 Nov 2007 16:52:34 +0100 Daniel Lezcano wrote:

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~Randy

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Subject: Re: Re: [PATCH][DOCUMENTATION] The namespaces compatibility list
doc

Posted by [kir](#) on Wed, 21 Nov 2007 12:33:59 GMT

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Daniel Lezcano wrote:

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>>

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