
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

+IPC X 1

+VFS X

+PID 1 1 X

+User 2 X

+Net X

+

+1. Both the IPC and the PID namespaces provide IDs to address

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

+ process group with pid.

+

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

+ other task living in a different namespace via a shared filesystem

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

+ within the namespace it was obtained in and may refer to some

+ other object in another namespace.

+

+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

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