Subject: Re: [PATCH 6/6] NFS: idmap PipeFS notifier introduced
Posted by Stanislav Kinsbursky on Tue, 10 Jan 2012 10:27:17 GMT
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> On Mon, 2011-11-28 at 17:34 +0300, Stanislav Kinsbursky wrote:
>> This patch subscribes NFS clients to RPC pipefs notifications. Idmap notifier
>> is registering on NFS module load. This notifier callback is responsible for
>> creation/destruction of PipeFS idmap pipe dentry for NFS4 clients.
>>
>> Since ipdmap pipe is created in rpc client pipefs directory, we have make sure,
>> that this directory has been created already. IOW RPC client notifier callback
>> has been called already. To achive this, PipeFS notifier priorities has been
>> introduced (RPC clients notifier priority is greater than NFS idmap one).
>> But this approach gives another problem: unlink for RPC client directory will
>> be called before NFS idmap pipe unlink on UMOUNT event and will fail, because
>> directory is not empty.
>> The solution, introduced in this patch, is to try to remove client directory
>> once again after idmap pipe was unlinked. This looks like ugly hack, so
>> probably it should be replaced in some more elegant way.
>>
>> Note that no locking required in notifier callback because PipeFS superblock
>> pointer is passed as an argument from it's creation or destruction routine and
>> thus we can be sure about it's validity.
>>
>> Signed-off-by: Stanislav Kinsbursky<skinsbursky@parallels.com>
>
> This patch gives me:
>
> Kernel: arch/x86/boot/bzImage is ready (#3)
>   Building modules, stage 2.
>   MODPOST 921 modules
> ERROR: "nfs_idmap_init" [fs/nfs/nfs.ko] undefined!
> ERROR: "nfs_idmap_quit" [fs/nfs/nfs.ko] undefined!
> make[2]: *** [__modpost] Error 1
> make[1]: *** [modules] Error 2
> make: *** [sub-make] Error 2
>
> if CONFIG_NFS_V4 is not defined.
>

Sorry.
Will resend soon.

> Cheers
>   Trond
>

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Best regards,
Stanislav Kinsbursky