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Subject: [PATCH v3] NFSd: set nfsd\_serv to NULL after service destruction  
Posted by [Stanislav Kinsbursky](#) on Tue, 03 Jul 2012 12:46:41 GMT  
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v3:

1) Rebased for 3.6 kernel.

v2:

1) Set global nfsd\_serv pointer to NULL only if no running threads left.

Otherwise we will get NULL pointer dereference on last thread exit in  
nfsd\_last\_thread().

This patch also introduces nfsd\_destroy() helper for per-net NFSd shutdown.

Signed-off-by: Stanislav Kinsbursky <skinsbursky@parallels.com>

---

```
fs/nfsd/nfsctl.c | 8 ++-----
fs/nfsd/nfsd.h   | 11 ++++++++
fs/nfsd/nfssvc.c | 24 ++++++++-----
3 files changed, 21 insertions(+), 22 deletions(-)
```

diff --git a/fs/nfsd/nfsctl.c b/fs/nfsd/nfsctl.c

index c55298e..fa49cff 100644

--- a/fs/nfsd/nfsctl.c

+++ b/fs/nfsd/nfsctl.c

@@ -673,9 +673,7 @@ static ssize\_t \_\_write\_ports\_addfd(char \*buf)

```
    err = svc_addsock(nfsd_serv, fd, buf, SIMPLE_TRANSACTION_LIMIT);
    if (err < 0) {
-   if (nfsd_serv->sv_nrthreads == 1)
-   svc_shutdown_net(nfsd_serv, net);
-   svc_destroy(nfsd_serv);
+   nfsd_destroy(net);
    return err;
    }
```

@@ -744,9 +742,7 @@ out\_close:

```
    svc_xprt_put(xprt);
    }
out_err:
-   if (nfsd_serv->sv_nrthreads == 1)
-   svc_shutdown_net(nfsd_serv, net);
-   svc_destroy(nfsd_serv);
+   nfsd_destroy(net);
    return err;
    }
```

diff --git a/fs/nfsd/nfsd.h b/fs/nfsd/nfsd.h

```

index 1671429..1336a65 100644
--- a/fs/nfsd/nfsd.h
+++ b/fs/nfsd/nfsd.h
@@ -73,6 +73,17 @@ int nfsd_nrpools(void);
int nfsd_get_nrthreads(int n, int *);
int nfsd_set_nrthreads(int n, int *);

+static inline void nfsd_destroy(struct net *net)
+{
+ int destroy = (nfsd_serv->sv_nrthreads == 1);
+
+ if (destroy)
+  svc_shutdown_net(nfsd_serv, net);
+  svc_destroy(nfsd_serv);
+ if (destroy)
+  nfsd_serv = NULL;
+}
+
#ifdef CONFIG_NFSD_V2_ACL || defined(CONFIG_NFSD_V3_ACL)
#ifdef CONFIG_NFSD_V2_ACL
extern struct svc_version nfsd_acl_version2;
diff --git a/fs/nfsd/nfssvc.c b/fs/nfsd/nfssvc.c
index ee709fc..240473c 100644
--- a/fs/nfsd/nfssvc.c
+++ b/fs/nfsd/nfssvc.c
@@ -254,8 +254,6 @@ static void nfsd_shutdown(void)

static void nfsd_last_thread(struct svc_serv *serv, struct net *net)
{
- /* When last nfsd thread exits we need to do some clean-up */
- nfsd_serv = NULL;
-  nfsd_shutdown();

  svc_rpcb_cleanup(serv, net);
@@ -332,6 +330,7 @@ static int nfsd_get_default_max_blksize(void)
int nfsd_create_serv(void)
{
  int error;
+ struct net *net = current->nsproxy->net_ns;

  WARN_ON(!mutex_is_locked(&nfsd_mutex));
  if (nfsd_serv) {
@@ -346,7 +345,7 @@ int nfsd_create_serv(void)
if (nfsd_serv == NULL)
  return -ENOMEM;

- error = svc_bind(nfsd_serv, current->nsproxy->net_ns);
+ error = svc_bind(nfsd_serv, net);

```

```

if (error < 0) {
    svc_destroy(nfsd_serv);
    return error;
@@ -427,11 +426,7 @@ int nfsd_set_nrthreads(int n, int *nthreads)
    if (err)
        break;
}
-
- if (nfsd_serv->sv_nrthreads == 1)
-   svc_shutdown_net(nfsd_serv, net);
-   svc_destroy(nfsd_serv);
-
+ nfsd_destroy(net);
    return err;
}

@@ -478,9 +473,7 @@ out_shutdown:
    if (error < 0 && !nfsd_up_before)
        nfsd_shutdown();
out_destroy:
- if (nfsd_serv->sv_nrthreads == 1)
-   svc_shutdown_net(nfsd_serv, net);
-   svc_destroy(nfsd_serv); /* Release server */
+ nfsd_destroy(net); /* Release server */
out:
    mutex_unlock(&nfsd_mutex);
    return error;
@@ -563,12 +556,13 @@ nfsd(void *vrqstp)
    nfsdstats.th_cnt --;

out:
- if (rqstp->rq_server->sv_nrthreads == 1)
-   svc_shutdown_net(rqstp->rq_server, &init_net);
+ rqstp->rq_server = NULL;

    /* Release the thread */
    svc_exit_thread(rqstp);

+ nfsd_destroy(&init_net);
+
    /* Release module */
    mutex_unlock(&nfsd_mutex);
    module_put_and_exit(0);
@@ -682,9 +676,7 @@ int nfsd_pool_stats_release(struct inode *inode, struct file *file)

    mutex_lock(&nfsd_mutex);
    /* this function really, really should have been called svc_put() */
- if (nfsd_serv->sv_nrthreads == 1)

```

```
- svc_shutdown_net(nfsd_serv, net);
- svc_destroy(nfsd_serv);
+ nfsd_destroy(net);
  mutex_unlock(&nfsd_mutex);
  return ret;
}
```

---

---

Subject: Re: [PATCH v3] NFSd: set nfsd\_serv to NULL after service destruction  
Posted by [bfields](#) on Thu, 05 Jul 2012 21:21:17 GMT

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---

On Tue, Jul 03, 2012 at 04:46:41PM +0400, Stanislav Kinsbursky wrote:

```
> v3:
> 1) Rebased for 3.6 kernel.
>
> v2:
> 1) Set global nfsd_serv pointer to NULL only if no running threads left.
>
> Otherwise we will get NULL pointer dereference on last thread exit in
> nfsd_last_thread().
> This patch also introduces nfsd_destroy() helper for per-net NFSd shutdown.
```

That last step should really be done in a separate patch, then the bugfix done after that.

But I'm confused: I'm not seeing the NULL dereference.  
nfsd\_last\_thread doesn't use nfsd\_serv as far as I can tell.

--b.

```
>
> Signed-off-by: Stanislav Kinsbursky <skinsbursky@parallels.com>
> ---
> fs/nfsd/nfsctl.c | 8 ++-----
> fs/nfsd/nfsd.h | 11 ++++++++
> fs/nfsd/nfssvc.c | 24 +++++++-----
> 3 files changed, 21 insertions(+), 22 deletions(-)
>
> diff --git a/fs/nfsd/nfsctl.c b/fs/nfsd/nfsctl.c
> index c55298e..fa49cff 100644
> --- a/fs/nfsd/nfsctl.c
> +++ b/fs/nfsd/nfsctl.c
> @@ -673,9 +673,7 @@ static ssize_t __write_ports_addfd(char *buf)
>
> err = svc_addsock(nfsd_serv, fd, buf, SIMPLE_TRANSACTION_LIMIT);
> if (err < 0) {
> - if (nfsd_serv->sv_nrthreads == 1)
```

```

> - svc_shutdown_net(nfsd_serv, net);
> - svc_destroy(nfsd_serv);
> + nfsd_destroy(net);
>   return err;
> }
>
> @@ -744,9 +742,7 @@ out_close:
>   svc_xprt_put(xprt);
> }
> out_err:
> - if (nfsd_serv->sv_nrthreads == 1)
> - svc_shutdown_net(nfsd_serv, net);
> - svc_destroy(nfsd_serv);
> + nfsd_destroy(net);
>   return err;
> }
>
> diff --git a/fs/nfsd/nfsd.h b/fs/nfsd/nfsd.h
> index 1671429..1336a65 100644
> --- a/fs/nfsd/nfsd.h
> +++ b/fs/nfsd/nfsd.h
> @@ -73,6 +73,17 @@ int nfsd_nrthreads(void);
> int nfsd_get_nrthreads(int n, int *);
> int nfsd_set_nrthreads(int n, int *);
>
> +static inline void nfsd_destroy(struct net *net)
> +{
> + int destroy = (nfsd_serv->sv_nrthreads == 1);
> +
> + if (destroy)
> +   svc_shutdown_net(nfsd_serv, net);
> +   svc_destroy(nfsd_serv);
> +   if (destroy)
> +     nfsd_serv = NULL;
> +}
> +
> #if defined(CONFIG_NFSD_V2_ACL) || defined(CONFIG_NFSD_V3_ACL)
> #ifdef CONFIG_NFSD_V2_ACL
> extern struct svc_version nfsd_acl_version2;
> diff --git a/fs/nfsd/nfssvc.c b/fs/nfsd/nfssvc.c
> index ee709fc..240473c 100644
> --- a/fs/nfsd/nfssvc.c
> +++ b/fs/nfsd/nfssvc.c
> @@ -254,8 +254,6 @@ static void nfsd_shutdown(void)
>
> static void nfsd_last_thread(struct svc_serv *serv, struct net *net)
> {
> - /* When last nfsd thread exits we need to do some clean-up */

```

```

> - nfsd_serv = NULL;
> nfsd_shutdown();
>
> svc_rpcb_cleanup(serv, net);
> @@ -332,6 +330,7 @@ static int nfsd_get_default_max_blksize(void)
> int nfsd_create_serv(void)
> {
> int error;
> + struct net *net = current->nsproxy->net_ns;
>
> WARN_ON(!mutex_is_locked(&nfsd_mutex));
> if (nfsd_serv) {
> @@ -346,7 +345,7 @@ int nfsd_create_serv(void)
> if (nfsd_serv == NULL)
> return -ENOMEM;
>
> - error = svc_bind(nfsd_serv, current->nsproxy->net_ns);
> + error = svc_bind(nfsd_serv, net);
> if (error < 0) {
> svc_destroy(nfsd_serv);
> return error;
> @@ -427,11 +426,7 @@ int nfsd_set_nrthreads(int n, int *nthreads)
> if (err)
> break;
> }
> -
> - if (nfsd_serv->sv_nrthreads == 1)
> - svc_shutdown_net(nfsd_serv, net);
> - svc_destroy(nfsd_serv);
> -
> + nfsd_destroy(net);
> return err;
> }
>
> @@ -478,9 +473,7 @@ out_shutdown:
> if (error < 0 && !nfsd_up_before)
> nfsd_shutdown();
> out_destroy:
> - if (nfsd_serv->sv_nrthreads == 1)
> - svc_shutdown_net(nfsd_serv, net);
> - svc_destroy(nfsd_serv); /* Release server */
> + nfsd_destroy(net); /* Release server */
> out:
> mutex_unlock(&nfsd_mutex);
> return error;
> @@ -563,12 +556,13 @@ nfsd(void *vrqstp)
> nfsdstats.th_cnt --;
>

```

```

> out:
> - if (rqstp->rq_server->sv_nrthreads == 1)
> - svc_shutdown_net(rqstp->rq_server, &init_net);
> + rqstp->rq_server = NULL;
>
> /* Release the thread */
> svc_exit_thread(rqstp);
>
> + nfsd_destroy(&init_net);
> +
> /* Release module */
> mutex_unlock(&nfsd_mutex);
> module_put_and_exit(0);
> @@ -682,9 +676,7 @@ int nfsd_pool_stats_release(struct inode *inode, struct file *file)
>
> mutex_lock(&nfsd_mutex);
> /* this function really, really should have been called svc_put() */
> - if (nfsd_serv->sv_nrthreads == 1)
> - svc_shutdown_net(nfsd_serv, net);
> - svc_destroy(nfsd_serv);
> + nfsd_destroy(net);
> mutex_unlock(&nfsd_mutex);
> return ret;
> }
>

```

---

Subject: Re: [PATCH v3] NFSd: set nfsd\_serv to NULL after service destruction

Posted by [Stanislav Kinsbursky](#) on Fri, 06 Jul 2012 09:09:01 GMT

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---

```

> On Tue, Jul 03, 2012 at 04:46:41PM +0400, Stanislav Kinsbursky wrote:
>> v3:
>> 1) Rebased for 3.6 kernel.
>>
>> v2:
>> 1) Set global nfsd_serv pointer to NULL only if no running threads left.
>>
>> Otherwise we will get NULL pointer dereference on last thread exit in
>> nfsd_last_thread().
>> This patch also introduces nfsd_destroy() helper for per-net NFSd shutdown.
>
> That last step should really be done in a separate patch, then the
> bugfix done after that.
>
> But I'm confused: I'm not seeing the NULL dereference.
> nfsd_last_thread doesn't use nfsd_serv as far as I can tell.

```

>

Sorry for the bad comment, Bruce. It takes time even for me to reconstruct the problem in my mind.

The reason for this patch was an error path in nfs\_svc().

```
int
nfsd_svc(unsigned short port, int nrservs)
{
<--- snip --->

out_destroy:
    if (nfsd_serv->sv_nrthreads == 1)
        svc_shutdown_net(nfsd_serv, net); <=== nfsd_serv = NULL
    svc_destroy(nfsd_serv);    <=== NULL ptr
out:
    mutex_unlock(&nfsd_mutex);
    return error;
}
```

I'll prepare patch series with proper comments. Thanks.

```
> --b.
>
>>
>> Signed-off-by: Stanislav Kinsbursky <skinsbursky@parallels.com>
>> ---
>> fs/nfsd/nfsctl.c | 8 ++-----
>> fs/nfsd/nfsd.h | 11 ++++++++
>> fs/nfsd/nfssvc.c | 24 ++++++++-----
>> 3 files changed, 21 insertions(+), 22 deletions(-)
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>> index c55298e..fa49cff 100644
>> --- a/fs/nfsd/nfsctl.c
>> +++ b/fs/nfsd/nfsctl.c
>> @@ -673,9 +673,7 @@ static ssize_t __write_ports_addfd(char *buf)
>>
>>     err = svc_addsock(nfsd_serv, fd, buf, SIMPLE_TRANSACTION_LIMIT);
>>     if (err < 0) {
>> -     if (nfsd_serv->sv_nrthreads == 1)
>> -     svc_shutdown_net(nfsd_serv, net);
>> -     svc_destroy(nfsd_serv);
>> +     nfsd_destroy(net);
>>     return err;
>> }
>>
```



```

>> @@ -744,9 +742,7 @@ out_close:
>>   svc_xprt_put(xprt);
>> }
>> out_err:
>> - if (nfsd_serv->sv_nrthreads == 1)
>> - svc_shutdown_net(nfsd_serv, net);
>> - svc_destroy(nfsd_serv);
>> + nfsd_destroy(net);
>>   return err;
>> }
>>
>> diff --git a/fs/nfsd/nfsd.h b/fs/nfsd/nfsd.h
>> index 1671429..1336a65 100644
>> --- a/fs/nfsd/nfsd.h
>> +++ b/fs/nfsd/nfsd.h
>> @@ -73,6 +73,17 @@ int nfsd_nrthreads(void);
>> int nfsd_get_nrthreads(int n, int *);
>> int nfsd_set_nrthreads(int n, int *);
>>
>> +static inline void nfsd_destroy(struct net *net)
>> +{
>> + int destroy = (nfsd_serv->sv_nrthreads == 1);
>> +
>> + if (destroy)
>> +   svc_shutdown_net(nfsd_serv, net);
>> +   svc_destroy(nfsd_serv);
>> + if (destroy)
>> +   nfsd_serv = NULL;
>> +}
>> +
>> #if defined(CONFIG_NFSD_V2_ACL) || defined(CONFIG_NFSD_V3_ACL)
>> #ifdef CONFIG_NFSD_V2_ACL
>> extern struct svc_version nfsd_acl_version2;
>> diff --git a/fs/nfsd/nfssvc.c b/fs/nfsd/nfssvc.c
>> index ee709fc..240473c 100644
>> --- a/fs/nfsd/nfssvc.c
>> +++ b/fs/nfsd/nfssvc.c
>> @@ -254,8 +254,6 @@ static void nfsd_shutdown(void)
>>
>> static void nfsd_last_thread(struct svc_serv *serv, struct net *net)
>> {
>> - /* When last nfsd thread exits we need to do some clean-up */
>> - nfsd_serv = NULL;
>>   nfsd_shutdown();
>>
>>   svc_rpcb_cleanup(serv, net);
>> @@ -332,6 +330,7 @@ static int nfsd_get_default_max_blksize(void)
>> int nfsd_create_serv(void)

```

```

>> {
>> int error;
>> + struct net *net = current->nsproxy->net_ns;
>>
>> WARN_ON(!mutex_is_locked(&nfsd_mutex));
>> if (nfsd_serv) {
>> @@ -346,7 +345,7 @@ int nfsd_create_serv(void)
>> if (nfsd_serv == NULL)
>> return -ENOMEM;
>>
>> - error = svc_bind(nfsd_serv, current->nsproxy->net_ns);
>> + error = svc_bind(nfsd_serv, net);
>> if (error < 0) {
>> svc_destroy(nfsd_serv);
>> return error;
>> @@ -427,11 +426,7 @@ int nfsd_set_nrthreads(int n, int *nthreads)
>> if (err)
>> break;
>> }
>> -
>> - if (nfsd_serv->sv_nrthreads == 1)
>> - svc_shutdown_net(nfsd_serv, net);
>> - svc_destroy(nfsd_serv);
>> -
>> + nfsd_destroy(net);
>> return err;
>> }
>>
>> @@ -478,9 +473,7 @@ out_shutdown:
>> if (error < 0 && !nfsd_up_before)
>> nfsd_shutdown();
>> out_destroy:
>> - if (nfsd_serv->sv_nrthreads == 1)
>> - svc_shutdown_net(nfsd_serv, net);
>> - svc_destroy(nfsd_serv); /* Release server */
>> + nfsd_destroy(net); /* Release server */
>> out:
>> mutex_unlock(&nfsd_mutex);
>> return error;
>> @@ -563,12 +556,13 @@ nfsd(void *vrqstp)
>> nfsdstats.th_cnt--;
>>
>> out:
>> - if (rqstp->rq_server->sv_nrthreads == 1)
>> - svc_shutdown_net(rqstp->rq_server, &init_net);
>> + rqstp->rq_server = NULL;
>>
>> /* Release the thread */

```

```

>>  svc_exit_thread(rqstp);
>>
>> + nfsd_destroy(&init_net);
>> +
>>  /* Release module */
>>  mutex_unlock(&nfsd_mutex);
>>  module_put_and_exit(0);
>> @@ -682,9 +676,7 @@ int nfsd_pool_stats_release(struct inode *inode, struct file *file)
>>
>>  mutex_lock(&nfsd_mutex);
>>  /* this function really, really should have been called svc_put() */
>> - if (nfsd_serv->sv_nrthreads == 1)
>> - svc_shutdown_net(nfsd_serv, net);
>> - svc_destroy(nfsd_serv);
>> + nfsd_destroy(net);
>>  mutex_unlock(&nfsd_mutex);
>>  return ret;
>> }
>>

```

--

Best regards,  
Stanislav Kinsbursky

Subject: Re: [PATCH v3] NFSd: set nfsd\_serv to NULL after service destruction  
 Posted by [bfields](#) on Fri, 06 Jul 2012 16:44:12 GMT  
[View Forum Message](#) <> [Reply to Message](#)

On Fri, Jul 06, 2012 at 01:09:01PM +0400, Stanislav Kinsbursky wrote:

```

> >On Tue, Jul 03, 2012 at 04:46:41PM +0400, Stanislav Kinsbursky wrote:
> >>v3:
> >>1) Rebased for 3.6 kernel.
> >>
> >>v2:
> >>1) Set global nfsd_serv pointer to NULL only if no running threads left.
> >>
> >>Otherwise we will get NULL pointer dereference on last thread exit in
> >>nfsd_last_thread().
> >>This patch also introduces nfsd_destroy() helper for per-net NFSd shutdown.
> >
> >That last step should really be done in a separate patch, then the
> >bugfix done after that.
> >
> >But I'm confused: I'm not seeing the NULL dereference.
> >nfsd_last_thread doesn't use nfsd_serv as far as I can tell.

```

```

> >
>
> Sorry for the bad comment, Bruce. It takes time even for me to
> reconstruct the problem in my mind.
> The reason for this patch was an error path in nfs_svc().
>
> int
> nfsd_svc(unsigned short port, int nrservs)
> {
>
> <--- snip --->
>
> out_destroy:
>     if (nfsd_serv->sv_nthreads == 1)
>         svc_shutdown_net(nfsd_serv, net); <=== nfsd_serv = NULL
>     svc_destroy(nfsd_serv);    <=== NULL ptr
> out:
>     mutex_unlock(&nfsd_mutex);
>     return error;
> }
>
> I'll prepare patch series with proper comments. Thanks.

```

This is what I'll queue up for 3.6 if it looks OK to you. Same end result, just split into cleanup and bugfix, with your details above added to the second patch.

--b.

```

commit ab7115dec8aac910c0c7dec80564a4b1acc1dce1
Author: Stanislav Kinsbursky <skinsbursky@parallels.com>
Date: Tue Jul 3 16:46:41 2012 +0400

```

NFSd: set nfsd\_serv to NULL after service destruction

In nfsd\_destroy():

```

if (destroy)
    svc_shutdown_net(nfsd_serv, net);
    svc_destroy(nfsd_server);

```

svc\_shutdown\_net(nfsd\_serv, net) calls nfsd\_last\_thread(), which sets nfsd\_serv to NULL, causing a NULL dereference on the following line.

Signed-off-by: Stanislav Kinsbursky <skinsbursky@parallels.com>  
Signed-off-by: J. Bruce Fields <bfields@redhat.com>

diff --git a/fs/nfsd/nfsd.h b/fs/nfsd/nfsd.h

```

index 7b248a2..2244222 100644
--- a/fs/nfsd/nfsd.h
+++ b/fs/nfsd/nfsd.h
@@ -82,6 +82,8 @@ static inline void nfsd_destroy(struct net *net)
    if (destroy)
        svc_shutdown_net(nfsd_serv, net);
    svc_destroy(nfsd_serv);
+ if (destroy)
+   nfsd_serv = NULL;
}

#if defined(CONFIG_NFSD_V2_ACL) || defined(CONFIG_NFSD_V3_ACL)
diff --git a/fs/nfsd/nfssvc.c b/fs/nfsd/nfssvc.c
index 8621e36..240473c 100644
--- a/fs/nfsd/nfssvc.c
+++ b/fs/nfsd/nfssvc.c
@@ -254,8 +254,6 @@ static void nfsd_shutdown(void)

static void nfsd_last_thread(struct svc_serv *serv, struct net *net)
{
- /* When last nfsd thread exits we need to do some clean-up */
- nfsd_serv = NULL;
-   nfsd_shutdown();

    svc_rpcb_cleanup(serv, net);
@@ -332,6 +330,7 @@ static int nfsd_get_default_max_blksize(void)
int nfsd_create_serv(void)
{
    int error;
+ struct net *net = current->nsproxy->net_ns;

    WARN_ON(!mutex_is_locked(&nfsd_mutex));
    if (nfsd_serv) {
@@ -346,7 +345,7 @@ int nfsd_create_serv(void)
    if (nfsd_serv == NULL)
        return -ENOMEM;

- error = svc_bind(nfsd_serv, current->nsproxy->net_ns);
+ error = svc_bind(nfsd_serv, net);
    if (error < 0) {
        svc_destroy(nfsd_serv);
        return error;
@@ -557,12 +556,13 @@ nfsd(void *vrqstp)
    nfsdstats.th_cnt --;

out:
- if (rqstp->rq_server->sv_nrthreads == 1)
-   svc_shutdown_net(rqstp->rq_server, &init_net);

```

```
+ rqstp->rq_server = NULL;
```

```
/* Release the thread */  
svc_exit_thread(rqstp);
```

```
+ nfsd_destroy(&init_net);
```

```
+  
/* Release module */  
mutex_unlock(&nfsd_mutex);  
module_put_and_exit(0);
```

```
commit 1e6dcb6ef5c3313f625e4a130687a889a1426e9d  
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Date: Tue Jul 3 16:46:41 2012 +0400
```

NFSd: introduce nfsd\_destroy() helper

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```
diff --git a/fs/nfsd/nfsctl.c b/fs/nfsd/nfsctl.c  
index c55298e..fa49cff 100644
```

```
--- a/fs/nfsd/nfsctl.c
```

```
+++ b/fs/nfsd/nfsctl.c
```

```
@@ -673,9 +673,7 @@ static ssize_t __write_ports_addfd(char *buf)
```

```
    err = svc_addsock(nfsd_serv, fd, buf, SIMPLE_TRANSACTION_LIMIT);  
    if (err < 0) {  
- if (nfsd_serv->sv_nrthreads == 1)  
-   svc_shutdown_net(nfsd_serv, net);  
-   svc_destroy(nfsd_serv);  
+ nfsd_destroy(net);  
    return err;  
    }
```

```
@@ -744,9 +742,7 @@ out_close:
```

```
    svc_xprt_put(xprt);  
    }  
out_err:  
- if (nfsd_serv->sv_nrthreads == 1)  
-   svc_shutdown_net(nfsd_serv, net);  
-   svc_destroy(nfsd_serv);  
+ nfsd_destroy(net);  
    return err;  
    }
```

```
diff --git a/fs/nfsd/nfsd.h b/fs/nfsd/nfsd.h  
index 6d425c2..7b248a2 100644
```

```

--- a/fs/nfsd/nfsd.h
+++ b/fs/nfsd/nfsd.h
@@ -75,6 +75,15 @@ int nfsd_set_nrthreads(int n, int *);
int nfsd_pool_stats_open(struct inode *, struct file *);
int nfsd_pool_stats_release(struct inode *, struct file *);

+static inline void nfsd_destroy(struct net *net)
+{
+ int destroy = (nfsd_serv->sv_nrthreads == 1);
+
+ if (destroy)
+  svc_shutdown_net(nfsd_serv, net);
+  svc_destroy(nfsd_serv);
+}
+
#if defined(CONFIG_NFSD_V2_ACL) || defined(CONFIG_NFSD_V3_ACL)
#ifdef CONFIG_NFSD_V2_ACL
extern struct svc_version nfsd_acl_version2;
diff --git a/fs/nfsd/nfssvc.c b/fs/nfsd/nfssvc.c
index ee709fc..8621e36 100644
--- a/fs/nfsd/nfssvc.c
+++ b/fs/nfsd/nfssvc.c
@@ -427,11 +427,7 @@ int nfsd_set_nrthreads(int n, int *nthreads)
    if (err)
        break;
    }
-
- if (nfsd_serv->sv_nrthreads == 1)
-  svc_shutdown_net(nfsd_serv, net);
-  svc_destroy(nfsd_serv);
-
+ nfsd_destroy(net);
    return err;
}

@@ -478,9 +474,7 @@ out_shutdown:
    if (error < 0 && !nfsd_up_before)
        nfsd_shutdown();
out_destroy:
- if (nfsd_serv->sv_nrthreads == 1)
-  svc_shutdown_net(nfsd_serv, net);
-  svc_destroy(nfsd_serv); /* Release server */
+ nfsd_destroy(net); /* Release server */
out:
    mutex_unlock(&nfsd_mutex);
    return error;
@@ -682,9 +676,7 @@ int nfsd_pool_stats_release(struct inode *inode, struct file *file)

```

```
mutex_lock(&nfsd_mutex);
/* this function really, really should have been called svc_put() */
- if (nfsd_serv->sv_nrthreads == 1)
- svc_shutdown_net(nfsd_serv, net);
- svc_destroy(nfsd_serv);
+ nfsd_destroy(net);
  mutex_unlock(&nfsd_mutex);
  return ret;
}
```

---