This patch-set was created in context of clone of git branch:
git://git.linux-nfs.org/projects/trondmy/nfs-2.6.git
and rebased on tag "v3.1".

v7:
1) Implemented "goto pattern" in __svc_create().
2) Paths 5 and 6 from previous patch-set were squashed to make things looks
clearer and to allow safe bisecting of the patch-set.

v6:
1) Fixes in rpcb_clients management.

v4:
1) creation and destruction on rpcbind clients now depends on service program
versions "vs_hidden" flag.

This patch is required for further RPC layer virtualization, because rpcbind
clients have to be per network namespace.
To achieve this, we have to untie network namespace from rpcbind clients sockets.
The idea of this patch set is to make rpcbind clients non-static. I.e. rpcbind
clients will be created during first RPC service creation, and destroyed when
last RPC service is stopped.
With this patch set rpcbind clients can be virtualized easily.

The following series consists of:

---

Stanislav Kinsbursky (7):
   SUNRPC: introduce helpers for reference counted rpcbind clients
   SUNRPC: use rpcbind reference counting helpers
   SUNRPC: introduce svc helpers for preparing rpcbind infrastructure
   SUNRPC: setup rpcbind clients if service requires it
   SUNRPC: cleanup service destruction
   SUNRPC: remove rpcbind clients creation during service registering
   SUNRPC: remove rpcbind clients destruction on module cleanup

fs/nfsd/nfssvc.c     |    2 +
include/linux/sunrpc/clnt.h |    2 +
include/linux/sunrpc/svc.h  |    1
net/sunrpc/rpcb_clnt.c    | 88 ++++++++++++++++++++++++++++++++++++++++++++++++++++------
net/sunrpc/sunrpc_symc.c   |    3 -
Subject: [PATCH v7 1/7] SUNRPC: introduce helpers for reference counted rpcbind clients
Posted by Stanislav Kinsbursky on Fri, 28 Oct 2011 10:52:37 GMT

v6:
1) added write memory barrier to rpcb_set_local to make sure, that rpcbind clients become valid before rpcb_users assignment
2) explicitly set rpcb_users to 1 instead of incrementing it (looks clearer from my pow).

v5: fixed races with rpcb_users in rpcb_get_local()

This helpers will be used for dynamical creation and destruction of rpcbind clients.

Variable rpcb_users is actually a counter of launched RPC services. If rpcbind clients has been created already, then we just increase rpcb_users.

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

spin_lock(&rpcb_clnt_lock);
if (rpcb_users)
 rpcb_users++;
cnt = rpcb_users;
spin_unlock(&rpcb_clnt_lock);

return cnt;
}

void rpcb_put_local(void)
{
struct rpc_clnt *clnt = rpcb_local_clnt;
struct rpc_clnt *clnt4 = rpcb_local_clnt4;
int shutdown;

spin_lock(&rpcb_clnt_lock);
if (--rpcb_users == 0) {
 rpcb_local_clnt = NULL;
 rpcb_local_clnt4 = NULL;
}
shutdown = !rpcb_users;
spin_unlock(&rpcb_users);
spin_unlock(&rpcb_clnt_lock);

if (shutdown) {
	/*
	 * cleanup_rpcb_clnt - remove xprtsock's sysctls, unregister
	 */
	if (clnt4)
 rpcl_shutdown_client(clnt4);
	if (clnt)
 rpcl_shutdown_client(clnt);
}

static void rpcb_set_local(struct rpc_clnt *clnt, struct rpc_clnt *clnt4)
{
	/* Protected by rpcb_create_local_mutex */
	rpcb_local_clnt = clnt;
	rpcb_local_clnt4 = clnt4;
	smp_wmb();
	rpcb_users = 1;
	dprintf("RPC: created new rpcb local clients (rpcb_local_clnt: 
+"%p, rpcb_local_clnt4: %p)\n", rpcb_local_clnt, 
+rpcb_local_clnt4);
}
/*
 * Returns zero on success, otherwise a negative errno value
 * is returned.
 */

Subject: [PATCH v7 2/7] SUNRPC: use rpcbind reference counting helpers
Posted by Stanislav Kinsbursky on Fri, 28 Oct 2011 10:52:44 GMT

All is simple: we just increase users counter if rpcbind clients has been
created already. Otherwise we create them and set users counter to 1.

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

---

net/sunrpc/rpcb_clnt.c | 12 ++++--------
1 files changed, 4 insertions(+), 8 deletions(-)

diff --git a/net/sunrpc/rpcb_clnt.c b/net/sunrpc/rpcb_clnt.c
index 9830d87..115df11 100644
--- a/net/sunrpc/rpcb_clnt.c
+++ b/net/sunrpc/rpcb_clnt.c
@@ -258,9 +258,7 @@ static int rpcb_create_local_unix(void)
    clnt4 = NULL;
 }

-/* Protected by rpcb_create_local_mutex */
-rpcb_local_clnt = clnt;
-rpcb_local_clnt4 = clnt4;
+rp cb_set_local(clnt, clnt4);

out:
    return result;
@@ -312,9 +310,7 @@ static int rpcb_create_local_net(void)
    clnt4 = NULL;
 }

-/* Protected by rpcb_create_local_mutex */
-rpcb_local_clnt = clnt;
-rpcb_local_clnt4 = clnt4;
+rp cb_set_local(clnt, clnt4);

out:
    return result;
@@ -329,11 +325,11 @@ static int rpcb_create_local(void)
 static DEFINE_MUTEX(rpcb_create_local_mutex);
 int result = 0;
-if (rpcb_local_clnt)
+if (rpcb_get_local())
   return result;

   mutex_lock(&rpcb_create_local_mutex);
-if (rpcb_local_clnt)
+if (rpcb_get_local())
   goto out;

   if (rpcb_create_local_unix() != 0)

---

Subject: [PATCH v7 4/7] SUNRPC: setup rpcbind clients if service requires it
Posted by Stanislav Kinsbursky on Fri, 28 Oct 2011 10:53:07 GMT

New function ("svc_uses_rpcbind") will be used to detect, that new service will
send portmapper register calls. For such services we will create rpcbind
clients and remove all stale portmap registrations.
Also, svc_rpcb_cleanup() will be set as sv_shutdown callback for such services
in case of this field wasn't initialized earlier. This will allow to destroy
rpcbind clients when no other users of them left.

Note: Currently, any creating service will be detected as portmap user.
Probably, this is wrong. But now it depends on program versions "vs_hidden"
flag.

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

---

net/sunrpc/svc.c | 20 ++++++++++++++++++-
1 files changed, 14 insertions(+), 6 deletions(-)
diff --git a/net/sunrpc/svc.c b/net/sunrpc/svc.c
index d2d61bf..87a67b2 100644
--- a/net/sunrpc/svc.c
+++ b/net/sunrpc/svc.c
@@ -436,10 +436,8 @@ __svc_create(struct svc_program *prog, unsigned int bufsize, int
    serv->sv_pools =
    kcalloc(serv->sv_nrpoools, sizeof(struct svc_pool),
            GFP_KERNEL);
-    if (!serv->sv_pools) {
-        -kfree(serv);
-        -return NULL;
-    }
+    if (!serv->sv_pools)
+       goto err_serv;
for (i = 0; i < serv->sv_nrpools; i++) {
    struct svc_pool *pool = &serv->sv_pools[i];
    spin_lock_init(&pool->sp_lock);
}

/*@ -454,10 +452,20 @@ __svc_create(struct svc_program *prog, unsigned int bufsize, int npools,

    /* Remove any stale portmap registrations */
    -svc_unregister(serv);
    +if (svc_uses_rpcbind(serv)) {
        +if (svc_rpcb_setup(serv) < 0)
        +goto err_rpcb;
        +if (!serv->sv_shutdown)
        +serv->sv_shutdown = svc_rpcb_cleanup;
        +}

    return serv;
    +
    +err_rpcb:
    +kfree(serv->sv_pools);
    +err_serv:
    +kfree(serv);
    +return NULL;
}

struct svc_serv *

---
Subject: [PATCH v7 3/7] SUNRPC: introduce svc helpers for preparing rpcbind infrastructure
Posted by Stanislav Kinsbursky on Fri, 28 Oct 2011 10:53:12 GMT
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This helpers will be used only for those services, that will send portmapper registration calls.

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

---
include/linux/sunrpc/clnt.h |   2 ++
net/sunrpc/rpcb_clnt.c |    2 +- net/sunrpc/svc.c | 35 ++++++++++++++++++++++++++++++++++++++++++++++
3 files changed, 38 insertions(+), 1 deletions(-)
diff --git a/include/linux/sunrpc/clnt.h b/include/linux/sunrpc/clnt.h index db7bcfa..1eb437d 100644
diff --git a/linux/sunrpc/clnt.h
+++ b/include/linux/sunrpc/clnt.h
@@ -135,6 +135,8 @@ void rpc_shutdown_client(struct rpc_clnt *
   void rpc_release_client(struct rpc_clnt *
   void rpc_task_release_client(struct rpc_task *

+int rpcb_create_local(void);
+void rpcb_put_local(void);
+intrpcb_register(u32, u32, int, unsigned short);
+intrpcb_v4_register(const u32 program, const u32 version,
    const struct sockaddr *address,
 diff --git a/net/sunrpc/rpcb_clnt.c b/net/sunrpc/rpcb_clnt.c
index 115df11..c144b95 100644
--- a/net/sunrpc/rpcb_clnt.c
+++ b/net/sunrpc/rpcb_clnt.c
@@ -320,7 +320,7 @@ out:
   * Returns zero on success, otherwise a negative errno value
   * is returned.
   */
-static int rpcb_create_local(void)
+int rpcb_create_local(void)
{
    static DEFINE_MUTEX(rpcb_create_local_mutex);
    int result = 0;
 diff --git a/net/sunrpc/svc.c b/net/sunrpc/svc.c
index 6a69a11..d2d61bf 100644
--- a/net/sunrpc/svc.c
+++ b/net/sunrpc/svc.c
@@ -354,6 +354,41 @@ svc_pool_for_cpu(struct svc_serv *serv, int cpu)
    return &serv->sv_pools[pidx % serv->sv_nrpoools];
 }

+static int svc_rpcb_setup(struct svc_serv *serv)
+{  
+    int err;
+    
+    err = rpcb_create_local();
+    if (err)
+        return err;
+    
+    /* Remove any stale portmap registrations */
+    svc_unregister(serv);
+    return 0;
+  }
+
+static void svc_rpcb_cleanup(struct svc_serv *serv)
+{  
+    svc_unregister(serv);
+    rpcb_put_local();
+    

static int svc_uses_rpcbind(struct svc_serv *serv)
{
    struct svc_program *progp;
    unsigned int i;

    for (progp = serv->sv_program; progp; progp = progp->pg_next) {
        for (i = 0; i < progp->pg_nvers; i++) {
            if (progp->pg_vers[i] == NULL)
                continue;
            if (progp->pg_vers[i]->vs_hidden == 0)
                return 1;
        }
    }

    return 0;
}

/*
 * Create an RPC service
*/

Subject: [PATCH v7 5/7] SUNRPC: cleanup service destruction
Posted by Stanislav Kinsbursky on Fri, 28 Oct 2011 10:53:31 GMT
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svc_unregister() call have to be removed from svc_destroy() since it will be
called in sv_shutdown callback.
This also means, that we have to call svc_rpcb_cleanup() explicitly from
nfsd_last_thread() since this function is registered as service shutdown
callback and thus nobody else will done it for us.

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

---
fs/nfsd/nfssvc.c     | 2 ++
include/linux/sunrpc/svc.h | 1 +
net/sunrpc/svc.c      | 4 +---
3 files changed, 5 insertions(+), 2 deletions(-)
diff --git a/fs/nfsd/nfssvc.c b/fs/nfsd/nfssvc.c
index dc5a1bf..52cd976 100644
--- a/fs/nfsd/nfssvc.c
+++ b/fs/nfsd/nfssvc.c
@@ -256,6 +256,8 @@ static void nfsd_last_thread(struct svc_serv *serv)
     nfsd_serv = NULL;
     nfsd_shutdown();

Subject: [PATCH v7 6/7] SUNRPC: remove rpcbind clients creation during service
We don't need this code since rpcbind clients are creating during RPC service creation.

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

---
net/sunrpc/rpcb_clnt.c | 9 ---------
1 files changed, 0 insertions(+), 9 deletions(-)

diff --git a/net/sunrpc/rpcb_clnt.c b/net/sunrpc/rpcb_clnt.c
index c144b95..115c691 100644
--- a/net/sunrpc/rpcb_clnt.c
+++ b/net/sunrpc/rpcb_clnt.c
@@ -431,11 +431,6 @@ int rpcb_register(u32 prog, u32 vers, int prot, unsigned short port)
       \struct rpc_message msg = {
       \.rpc_argp= &map,
       \};
-\-int error;
-\-
-\-error = rpcb_create_local();
-\-if (error)
-\-return error;

       printk("RPC: registering (%u, %u, %d, %u) with local "
       "rpcbind\n", (port ? "": "un"),
@@ -571,11 +566,7 @@ int rpcb_v4_register(const u32 program, const u32 version,
       \struct rpc_message msg = {
       \.rpc_argp= &map,
       \};
-\-int error;
-\-
-\-error = rpcb_create_local();
-\-if (error)
-\-return error;

       if (rpcb_local_clnt4 == NULL)
       return -EPROTONOSUPPORT;

Subject: [PATCH v7 7/7] SUNRPC: remove rpcbind clients destruction on module cleanup
Posted by Stanislav Kinsbursky on Fri, 28 Oct 2011 10:55:38 GMT

Rpcbind clients destruction during SUNRPC module removing is obsolete since now
those clients are destroying during last RPC service shutdown.

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

---

net/sunrpc/rpcb_clnt.c | 12 -----------
net/sunrpc/sunrpc_syms.c | 3 ---
2 files changed, 0 insertions(+), 15 deletions(-)

diff --git a/net/sunrpc/rpcb_clnt.c b/net/sunrpc/rpcb_clnt.c
index 115c691..983b74f 100644
--- a/net/sunrpc/rpcb_clnt.c
+++ b/net/sunrpc/rpcb_clnt.c
@@ -1100,15 +1100,3 @@ static struct rpc_program rpcb_program = {
 .version = rpcb_version,
 .stats = &rpcb_stats,
 }
-
-/**
- * cleanup_rpcb_clnt - remove xprtsock's sysctls, unregister
- *
- *
- */
-void cleanup_rpcb_clnt(void)
-{ }
-if (rpcb_local_clnt4)
-rpc_shutdown_client(rpcb_local_clnt4);
-if (rpcb_local_clnt)
-rpc_shutdown_client(rpcb_local_clnt);
-}

diff --git a/net/sunrpc/sunrpc_syms.c b/net/sunrpc/sunrpc_syms.c
index 9d08091..8ec9778 100644
--- a/net/sunrpc/sunrpc_syms.c
+++ b/net/sunrpc/sunrpc_syms.c
@@ -61,8 +61,6 @@ static struct pernet_operations sunrpc_net_ops = {

 extern struct cache_detail unix_gid_cache;

-extern void cleanup_rpcb_clnt(void);
-
 static int __init
 init_sunrpc(void)
 {
@@ -102,7 +100,6 @@ out:
 static void __exit
 cleanup_sunrpc(void)
 {
-
-cleanup_rpcb_clnt();
rpcauth_remove_module();
Subject: Re: [PATCH v7 3/7] SUNRPC: introduce svc helpers for preparing rpcbind infrastructure
Posted by bfields on Fri, 28 Oct 2011 14:22:15 GMT
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On Fri, Oct 28, 2011 at 02:52:59PM +0300, Stanislav Kinsbursky wrote:
> This helpers will be used only for those services, that will send portmapper
> registration calls.
>
> Signed-off-by: Stanislav Kinsbursky <skinsbursky@parallels.com>

Acked-by: J. Bruce Fields <bfields@redhat.com>

---

#include/linux/sunrpc/clnt.h | 2 ++
> net/sunrpc/rpcb_clnt.c | 2 +- 
> net/sunrpc/svc.c | 35 +++++++++++++++++++++++++++++++++++
> 3 files changed, 38 insertions(+), 1 deletions(-)
>
> diff --git a/include/linux/sunrpc/clnt.h b/include/linux/sunrpc/clnt.h
> index db7bcaf..1eb437d 100644
> --- a/include/linux/sunrpc/clnt.h
> +++ b/include/linux/sunrpc/clnt.h
> @@ -135,6 +135,8 @@ void rpcb_shutdown_client(struct rpc_clnt *
>   * Returns zero on success, otherwise a negative errno value
>   * is returned.
>   */
> -static int rpcb_create_local(void)
> +int rpcb_create_local(void)
>  {
>   intrpcb_create_local(void);
>   +voidrpcb_put_local(void);
>   intrpcb_register(u32, u32, int, unsigned short);
>   intrpcb_v4_register(const u32 program, const u32 version,
>   const struct sockaddr *address,
>   diff --git a/net/sunrpc/rpcb_clnt.c b/net/sunrpc/rpcb_clnt.c
> index 115df11..c144b95 100644
> --- a/net/sunrpc/rpcb_clnt.c
> +++ b/net/sunrpc/rpcb_clnt.c
> @@ -320,7 +320,7 @@ voidrpcb_shutdown_client(struct rpc_clnt *
> voidrpcb_release_client(struct rpc_clnt *
> voidrpcb_task_release_client(struct rpc_task *);
> }
> +intrpcb_create_local(void);
> +voidrpcb_put_local(void);
> +intrpcb_register(u32, u32, int, unsigned short);
> +intrpcb_v4_register(const u32 program, const u32 version,
static DEFINE_MUTEX(rpcb_create_local_mutex);
int result = 0;
diff --git a/net/sunrpc/svc.c b/net/sunrpc/svc.c
index 6a69a11..d2d61bf 100644
--- a/net/sunrpc/svc.c
+++ b/net/sunrpc/svc.c
@@ -354,6 +354,41 @@ svc_pool_for_cpu(struct svc_serv *serv, int cpu)
return &serv->sv_pools[pidx % serv->sv_nr pools];
}

+static int svc_rpcb_setup(struct svc_serv *serv)
+{
+int err;
++
+err = rpcb_create_local();
+if (err)
+return err;
++
+/* Remove any stale portmap registrations */
+s svc_unregister(serv);
+return 0;
++
+
+static void svc_rpcb_cleanup(struct svc_serv *serv)
+{
+s svc_unregister(serv);
+rpcb_put_local();
++
+
+static int svc_uses_rpcbind(struct svc_serv *serv)
+{
+struct svc_program *progp;
+unsigned int i;
++
+for (progp = serv->sv_program; progp; progp = progp->pg_next) {
+for (i = 0; i < progp->pg_nvers; i++) {
+if (progp->pg_vers[i] == NULL)
+continue;
+if (progp->pg_vers[i]->vs_hidden == 0)
+return 1;
++
++
++return 0;
++
++*/
+/* Create an RPC service
Subject: Re: [PATCH v7 4/7] SUNRPC: setup rpcbind clients if service requires it
Posted by bfields on Fri, 28 Oct 2011 14:22:32 GMT

On Fri, Oct 28, 2011 at 02:53:18PM +0300, Stanislav Kinsbursky wrote:
> New function ("svc_uses_rpcbind") will be used to detect, that new service will
> send portmapper register calls. For such services we will create rpcbind
> clients and remove all stale portmap registrations.
> Also, svc_rpcb_cleanup() will be set as sv_shutdown callback for such services
> in case of this field wasn't initialized earlier. This will allow to destroy
> rpcbind clients when no other users of them left.
>
> Note: Currently, any creating service will be detected as portmap user.
> Probably, this is wrong. But now it depends on program versions "vs_hidden"
> flag.
>
> Signed-off-by: Stanislav Kinsbursky <skinsbursky@parallels.com>

Acked-by: J. Bruce Fields <bfields@redhat.com>

> net/sunrpc/svc.c |   20 ++++++++++++++------
> 1 files changed, 14 insertions(+), 6 deletions(-)
> diff --git a/net/sunrpc/svc.c b/net/sunrpc/svc.c
> index d2d61bf..87a67b2 100644
> --- a/net/sunrpc/svc.c
> +++ b/net/sunrpc/svc.c
> @@ -436,10 +436,8 @@ __svc_create(struct svc_program *prog, unsigned int bufsize, int
> serv->sv_pools =
> kcalloc(serv->sv_nrpools, sizeof(struct svc_pool),
> GFP_KERNEL);
> -if (!serv->sv_pools) {
> -kfree(serv);
> -return NULL;
> -}
> +if (!serv->sv_pools)
> +goto err_serv;
> >
for (i = 0; i < serv->sv_nrpoools; i++) {
    struct svc_pool *pool = &serv->sv_pools[i];
    svc>Create(struct svc_program *prog, unsigned int bufsize, int npools,
    spin_lock_init(&pool->sp_lock);
}

/* Remove any stale portmap registrations */
-svc_unregister(serv);
+if (svc_uses_rpcbind(serv)) {
    +  if (svc_rpcb_setup(serv) < 0)
    +  goto err_rpcb;
    +  if (!serv->sv_shutdown)
    +serv->sv_shutdown = svc_rpcb_cleanup;

return serv;
+
+err_rpcb:
+kfree(serv->sv_pools);
+err_serv:
+kfree(serv);
+return NULL;
}

Subject: Re: [PATCH v7 5/7] SUNRPC: cleanup service destruction
Posted by bfields on Fri, 28 Oct 2011 14:22:50 GMT
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On Fri, Oct 28, 2011 at 02:53:43PM +0300, Stanislav Kinsbursky wrote:
svc_unregister() call have to be removed from svc_destroy() since it will be
called in sv_shutdown callback.
This also means, that we have to call svc_rpcb_cleanup() explicitly from
nfsd_last_thread() since this function is registered as service shutdown
callback and thus nobody else will do it for us.

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

Acked-by: J. Bruce Fields <bfields@redhat.com>
diff --git a/fs/nfsd/nfssvc.c b/fs/nfsd/nfssvc.c
index dc5a1bf..52cd976 100644
--- a/fs/nfsd/nfssvc.c
+++ b/fs/nfsd/nfssvc.c
@@ -256,6 +256,8 @@ static void nfsd_last_thread(struct svc_serv *serv)
    	nfsd_serv = NULL;
    	nfsd_shutdown();

+    svc_rpcb_cleanup(serv);
+
    printk(KERN_WARNING "nfsd: last server has exited, flushing export 
       "cache\n"");
    nfsd_export_flush();

diff --git a/include/linux/sunrpc/svc.h b/include/linux/sunrpc/svc.h
index 223588a..5e71a30 100644
--- a/include/linux/sunrpc/svc.h
+++ b/include/linux/sunrpc/svc.h
@@ -401,6 +401,7 @@ struct svc_procedure {
  /*
   * Function prototypes.
   */
+    void svc_rpcb_cleanup(struct svc_serv *serv);

    struct svc_serv *svc_create(struct svc_program *, unsigned int,
    			    void (*shutdown)(struct svc_serv *));

    struct svc_rqst *svc_prepare_thread(struct svc_serv *serv,

diff --git a/net/sunrpc/svc.c b/net/sunrpc/svc.c
index 87a67b2..96df2ba 100644
--- a/net/sunrpc/svc.c
+++ b/net/sunrpc/svc.c
@@ -367,11 +367,12 @@ static int svc_rpcb_setup(struct svc_serv *serv)
  	return 0;
 }

-static void svc_rpcb_cleanup(struct svc_serv *serv)
+void svc_rpcb_cleanup(struct svc_serv *serv)
  {
    svc_unregister(serv);
    rpcb_put_local();
  }
+
+EXPORT_SYMBOL_GPL(svc_rpcb_cleanup);
static int svc_uses_rpcbind(struct svc_serv *serv)
{
@@ -531,7 +532,6 @@ svc_destroy(struct svc_serv *serv)
    if (svc_serv_is_pooled(serv))
    svc_pool_map_put();

-svc_unregister(serv);
    kfree(serv->sv_pools);
    kfree(serv);
}  }

To unsubscribe from this list: send the line "unsubscribe linux-nfs" in
the body of a message to majordomo@vger.kernel.org

Subject: Re: [PATCH v7 0/7] SUNRPC: make rpcbind clients allocated and
destroyed dynamically
Posted by bfields on Fri, 28 Oct 2011 14:23:28 GMT
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On Fri, Oct 28, 2011 at 02:52:09PM +0300, Stanislav Kinsbursky wrote:
> This patch-set was created in context of clone of git branch:
> git://git.linux-nfs.org/projects/trondmy/nfs-2.6.git
> and rebased on tag "v3.1".
> v7:
> 1) Implemented "goto pattern" in __svc_create().
> 2) Pathes 5 and 6 from perious patch-set were squashed to make things looks
clearer and to allow safe bisecting of the patch-set.
This series looks fine to me; thanks!

--b.

v6:
1) Fixes in rpcb_clients management.

v4:
1) creation and destruction on rpcbind clients now depends on service program
versions "vs_hidden" flag.

This patch is required for further RPC layer virtualization, because rpcbind
clients have to be per network namespace.
To achive this, we have to untie network namespace from rpcbind clients sockets.
The idea of this patch set is to make rpcbind clients non-static. I.e. rpcbind
clients will be created during first RPC service creation, and destroyed when last RPC service is stopped. With this patch set rpcbind clients can be virtualized easily.

The following series consists of:

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Stanislav Kinsbursky (7):

SUNRPC: introduce helpers for reference counted rpcbind clients
SUNRPC: use rpcbind reference counting helpers
SUNRPC: introduce svc helpers for preparing rpcbind infrastructure
SUNRPC: setup rpcbind clients if service requires it
SUNRPC: cleanup service destruction
SUNRPC: remove rpcbind clients creation during service registering
SUNRPC: remove rpcbind clients destruction on module cleanup

```
fs/nfsd/nfssvc.c            |    2 +
include/linux/sunrpc/clnt.h |    2 +
include/linux/sunrpc/svc.h  |    1
net/sunrpc/rpcb_clnt.c      |   88 ++++++++++++++++++++++++++++++++++++---------------
net/sunrpc/sunrpc_syms.c    |    3 -
net/sunrpc/svc.c            |   57 ++++++++++++++++++++++++----
```

6 files changed, 113 insertions(+), 40 deletions(-)

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