
Subject: [PATCH 7/7] SUNRPC: unregister service on creation in current network namespace

Posted by [Stanislav Kinsbursky](#) on Thu, 15 Dec 2011 16:03:00 GMT

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On service shutdown we can be sure, that no more users of it left except current. Thus it looks like using current network namespace context is safe in this case.

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

```
fs/nfsd/nfssvc.c      | 4 ++--
include/linux/sunrpc/svc.h | 9 +++++----
net/sunrpc/svc.c       | 14 ++++++++-----
3 files changed, 14 insertions(+), 13 deletions(-)
```

```
diff --git a/fs/nfsd/nfssvc.c b/fs/nfsd/nfssvc.c
```

```
index eda7d7e..fce472f 100644
```

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

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

```
@@ -251,13 +251,13 @@ static void nfsd_shutdown(void)
```

```
    nfsd_up = false;
```

```
}
```

```
-static void nfsd_last_thread(struct svc_serv *serv)
```

```
+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);
```

```
+ svc_rpcb_cleanup(serv, net);
```

```
    printk(KERN_WARNING "nfsd: last server has exited, flushing export "
```

```
           "cache\n");
```

```
diff --git a/include/linux/sunrpc/svc.h b/include/linux/sunrpc/svc.h
```

```
index d3563c2..7b65495 100644
```

```
--- a/include/linux/sunrpc/svc.h
```

```
+++ b/include/linux/sunrpc/svc.h
```

```
@@ -84,7 +84,8 @@ struct svc_serv {
```

```
    unsigned int sv_nrpools; /* number of thread pools */
```

```
    struct svc_pool * sv_pools; /* array of thread pools */
```

```
- void (*sv_shutdown)(struct svc_serv *serv);
```

```
+ void (*sv_shutdown)(struct svc_serv *serv,
```

```
+     struct net *net);
```

```

/* Callback to use when last thread
 * exits.
 */
@@ -413,14 +414,14 @@ struct svc_procedure {
/*
 * Function prototypes.
 */
-void svc_rpcb_cleanup(struct svc_serv *serv);
+void svc_rpcb_cleanup(struct svc_serv *serv, struct net *net);
struct svc_serv *svc_create(struct svc_program *, unsigned int,
- void (*shutdown)(struct svc_serv *));
+ void (*shutdown)(struct svc_serv *, struct net *net));
struct svc_rqst *svc_prepare_thread(struct svc_serv *serv,
struct svc_pool *pool, int node);
void svc_exit_thread(struct svc_rqst *);
struct svc_serv * svc_create_pooled(struct svc_program *, unsigned int,
- void (*shutdown)(struct svc_serv *),
+ void (*shutdown)(struct svc_serv *, struct net *net),
svc_thread_fn, struct module *);
int svc_set_num_threads(struct svc_serv *, struct svc_pool *, int);
int svc_pool_stats_open(struct svc_serv *serv, struct file *file);
diff --git a/net/sunrpc/svc.c b/net/sunrpc/svc.c
index 578f962..b7e4ef9 100644
--- a/net/sunrpc/svc.c
+++ b/net/sunrpc/svc.c
@@ -380,10 +380,10 @@ static int svc_rpcb_setup(struct svc_serv *serv, struct net *net)
return 0;
}

-void svc_rpcb_cleanup(struct svc_serv *serv)
+void svc_rpcb_cleanup(struct svc_serv *serv, struct net *net)
{
- svc_unregister(serv, &init_net);
- rpcb_put_local(&init_net);
+ svc_unregister(serv, net);
+ rpcb_put_local(net);
}
EXPORT_SYMBOL_GPL(svc_rpcb_cleanup);

@@ -409,7 +409,7 @@ static int svc_uses_rpcbbind(struct svc_serv *serv)
/*
static struct svc_serv *
__svc_create(struct svc_program *prog, unsigned int bufsize, int npools,
- void (*shutdown)(struct svc_serv *serv))
+ void (*shutdown)(struct svc_serv *serv, struct net *net))
{
struct svc_serv *serv;
unsigned int vers;

```

@@ -483,7 +483,7 @@ __svc_create(struct svc_program *prog, unsigned int bufsize, int npools,

```
struct svc_serv *
svc_create(struct svc_program *prog, unsigned int bufsize,
- void (*shutdown)(struct svc_serv *serv))
+ void (*shutdown)(struct svc_serv *serv, struct net *net))
{
    return __svc_create(prog, bufsize, /*npools*/1, shutdown);
}
```

@@ -491,7 +491,7 @@ EXPORT_SYMBOL_GPL(svc_create);

```
struct svc_serv *
svc_create_pooled(struct svc_program *prog, unsigned int bufsize,
- void (*shutdown)(struct svc_serv *serv),
+ void (*shutdown)(struct svc_serv *serv, struct net *net),
    svc_thread_fn func, struct module *mod)
{
    struct svc_serv *serv;
```

@@ -532,7 +532,7 @@ svc_destroy(struct svc_serv *serv)
 svc_close_all(&serv->sv_tempsocks);

```
    if (serv->sv_shutdown)
- serv->sv_shutdown(serv);
+ serv->sv_shutdown(serv, current->nsproxy->net_ns);
```

```
    svc_close_all(&serv->sv_permsocks);
```
