
Subject: [PATCH v2] Lockd: pass network namespace to creation and destruction routines

Posted by [Stanislav Kinsbursky](#) on Thu, 29 Mar 2012 14:54:33 GMT

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v2: dereference of most probably already released nlm_host removed in nlmclnt_done() and reclaimer().

These routines are called from locks reclaimer() kernel thread. This thread works in "init_net" network context and currently relays on persence on lockd thread and it's per-net resources. Thus lockd_up() and lockd_down() can't relay on current network context. So let's pass corrent one into them.

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

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```
---
fs/lockd/clntlock.c      | 13 ++++++-----
fs/lockd/svc.c           |  7 +++----
fs/nfsd/nfssvc.c         |  6 +++---
include/linux/lockd/bind.h |  4 ++--
4 files changed, 16 insertions(+), 14 deletions(-)
```

```
diff --git a/fs/lockd/clntlock.c b/fs/lockd/clntlock.c
index ba1dc2e..ca0a080 100644
```

```
--- a/fs/lockd/clntlock.c
+++ b/fs/lockd/clntlock.c
@@ -56,7 +56,7 @@ struct nlm_host *nlmclnt_init(const struct nlmclnt_initdata *nlm_init)
    u32 nlm_version = (nlm_init->nfs_version == 2) ? 1 : 4;
    int status;
```

```
- status = lockd_up();
+ status = lockd_up(nlm_init->net);
    if (status < 0)
        return ERR_PTR(status);
```

```
@ @ -65,7 +65,7 @@ struct nlm_host *nlmclnt_init(const struct nlmclnt_initdata *nlm_init)
    nlm_init->hostname, nlm_init->noresvport,
    nlm_init->net);
    if (host == NULL) {
- lockd_down();
+ lockd_down(nlm_init->net);
        return ERR_PTR(-ENOLCK);
    }
```

```
@ @ -80,8 +80,10 @@ EXPORT_SYMBOL_GPL(nlmclnt_init);
*/
```

```

void nlmclnt_done(struct nlm_host *host)
{
+ struct net *net = host->net;
+
  nlmclnt_release_host(host);
- lockd_down();
+ lockd_down(net);
}
EXPORT_SYMBOL_GPL(nlmclnt_done);

@@ -220,11 +222,12 @@ reclaimer(void *ptr)
  struct nlm_wait  *block;
  struct file_lock *fl, *next;
  u32 nsmstate;
+ struct net *net = host->net;

  allow_signal(SIGKILL);

  down_write(&host->h_rwsem);
- lockd_up(); /* note: this cannot fail as lockd is already running */
+ lockd_up(net); /* note: this cannot fail as lockd is already running */

  dprintk("lockd: reclaiming locks for host %s\n", host->h_name);

@@ -275,6 +278,6 @@ restart:

  /* Release host handle after use */
  nlmclnt_release_host(host);
- lockd_down();
+ lockd_down(net);
  return 0;
}
diff --git a/fs/lockd/svc.c b/fs/lockd/svc.c
index b34100e..ce4c80e 100644
--- a/fs/lockd/svc.c
+++ b/fs/lockd/svc.c
@@ -295,11 +295,10 @@ static void lockd_down_net(struct net *net)
/*
 * Bring up the lockd process if it's not already up.
 */
-int lockd_up(void)
+int lockd_up(struct net *net)
{
  struct svc_serv *serv;
  int error = 0;
- struct net *net = current->nsproxy->net_ns;

  mutex_lock(&nlmsvc_mutex);

```

```

/*
@@ -377,12 +376,12 @@ EXPORT_SYMBOL_GPL(lockd_up);
 * Decrement the user count and bring down lockd if we're the last.
 */
void
-lockd_down(void)
+lockd_down(struct net *net)
{
    mutex_lock(&nlm_svc_mutex);
    if (nlm_svc_users) {
        if (--nlm_svc_users) {
- lockd_down_net(current->nsproxy->net_ns);
+ lockd_down_net(net);
            goto out;
        }
    } else {
diff --git a/fs/nfsd/nfssvc.c b/fs/nfsd/nfssvc.c
index fce472f..0f3e35b 100644
--- a/fs/nfsd/nfssvc.c
+++ b/fs/nfsd/nfssvc.c
@@ -220,7 +220,7 @@ static int nfsd_startup(unsigned short port, int nrsvcs)
    ret = nfsd_init_socks(port);
    if (ret)
        goto out_racache;
- ret = lockd_up();
+ ret = lockd_up(&init_net);
    if (ret)
        goto out_racache;
    ret = nfs4_state_start();
@@ -229,7 +229,7 @@ static int nfsd_startup(unsigned short port, int nrsvcs)
    nfsd_up = true;
    return 0;
out_lockd:
- lockd_down();
+ lockd_down(&init_net);
out_racache:
    nfsd_racache_shutdown();
    return ret;
@@ -246,7 +246,7 @@ static void nfsd_shutdown(void)
    if (!nfsd_up)
        return;
    nfs4_state_shutdown();
- lockd_down();
+ lockd_down(&init_net);
    nfsd_racache_shutdown();
    nfsd_up = false;
}
diff --git a/include/linux/lockd/bind.h b/include/linux/lockd/bind.h

```

```

index 11a966e..4d24d64 100644
--- a/include/linux/lockd/bind.h
+++ b/include/linux/lockd/bind.h
@@ -54,7 +54,7 @@ extern void nlmclnt_done(struct nlm_host *host);

extern int nlmclnt_proc(struct nlm_host *host, int cmd,
    struct file_lock *fl);
-extern int lockd_up(void);
-extern void lockd_down(void);
+extern int lockd_up(struct net *net);
+extern void lockd_down(struct net *net);

#endif /* LINUX_LOCKD_BIND_H */

```

Subject: Re: [PATCH v2] Lockd: pass network namespace to creation and destruction routines

Posted by [bfields](#) on Wed, 11 Apr 2012 16:11:14 GMT

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On Thu, Mar 29, 2012 at 06:54:33PM +0400, Stanislav Kinsbursky wrote:

> v2: dereference of most probably already released nlm_host removed in
> nlmclnt_done() and reclaimer().

Did you want this in Trond's tree or mine?

--b.

>
> These routines are called from locks reclaimer() kernel thread. This thread
> works in "init_net" network context and currently relays on persence on lockd
> thread and it's per-net resources. Thus lockd_up() and lockd_down() can't relay
> on current network context. So let's pass corrent one into them.

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> 4 files changed, 16 insertions(+), 14 deletions(-)
>
> diff --git a/fs/lockd/clntlock.c b/fs/lockd/clntlock.c
> index ba1dc2e..ca0a080 100644
> --- a/fs/lockd/clntlock.c

```

> +++ b/fs/lockd/clntlock.c
> @@ -56,7 +56,7 @@ struct nlm_host *nlmclnt_init(const struct nlmclnt_initdata *nlm_init)
>   u32 nlm_version = (nlm_init->nfs_version == 2) ? 1 : 4;
>   int status;
>
> - status = lockd_up();
> + status = lockd_up(nlm_init->net);
>   if (status < 0)
>       return ERR_PTR(status);
>
> @@ -65,7 +65,7 @@ struct nlm_host *nlmclnt_init(const struct nlmclnt_initdata *nlm_init)
>       nlm_init->hostname, nlm_init->noresvport,
>       nlm_init->net);
>   if (host == NULL) {
> -   lockd_down();
> +   lockd_down(nlm_init->net);
>       return ERR_PTR(-ENOLCK);
>   }
>
> @@ -80,8 +80,10 @@ EXPORT_SYMBOL_GPL(nlmclnt_init);
>   */
> void nlmclnt_done(struct nlm_host *host)
> {
> + struct net *net = host->net;
> +
>   nlmclnt_release_host(host);
> - lockd_down();
> + lockd_down(net);
> }
> EXPORT_SYMBOL_GPL(nlmclnt_done);
>
> @@ -220,11 +222,12 @@ reclaim(void *ptr)
>   struct nlm_wait *block;
>   struct file_lock *fl, *next;
>   u32 nsmstate;
> + struct net *net = host->net;
>
>   allow_signal(SIGKILL);
>
>   down_write(&host->h_rwsem);
> - lockd_up(); /* note: this cannot fail as lockd is already running */
> + lockd_up(net); /* note: this cannot fail as lockd is already running */
>
>   dprintk("lockd: reclaiming locks for host %s\n", host->h_name);
>
> @@ -275,6 +278,6 @@ restart:
>
>   /* Release host handle after use */

```

```

> nlmclnt_release_host(host);
> - lockd_down();
> + lockd_down(net);
> return 0;
> }
> diff --git a/fs/lockd/svc.c b/fs/lockd/svc.c
> index b34100e..ce4c80e 100644
> --- a/fs/lockd/svc.c
> +++ b/fs/lockd/svc.c
> @@ -295,11 +295,10 @@ static void lockd_down_net(struct net *net)
> /*
>  * Bring up the lockd process if it's not already up.
>  */
> -int lockd_up(void)
> +int lockd_up(struct net *net)
> {
> struct svc_serv *serv;
> int error = 0;
> - struct net *net = current->nsproxy->net_ns;
>
> mutex_lock(&nlmsvc_mutex);
> /*
> @@ -377,12 +376,12 @@ EXPORT_SYMBOL_GPL(lockd_up);
>  * Decrement the user count and bring down lockd if we're the last.
>  */
> void
> -lockd_down(void)
> +lockd_down(struct net *net)
> {
> mutex_lock(&nlmsvc_mutex);
> if (nlmsvc_users) {
> if (--nlmsvc_users) {
> - lockd_down_net(current->nsproxy->net_ns);
> + lockd_down_net(net);
> goto out;
> }
> } else {
> diff --git a/fs/nfsd/nfssvc.c b/fs/nfsd/nfssvc.c
> index fce472f..0f3e35b 100644
> --- a/fs/nfsd/nfssvc.c
> +++ b/fs/nfsd/nfssvc.c
> @@ -220,7 +220,7 @@ static int nfsd_startup(unsigned short port, int nrservs)
> ret = nfsd_init_socks(port);
> if (ret)
> goto out_racache;
> - ret = lockd_up();
> + ret = lockd_up(&init_net);
> if (ret)

```

```

> goto out_racache;
> ret = nfs4_state_start();
> @@ -229,7 +229,7 @@ static int nfsd_startup(unsigned short port, int nrsvs)
> nfsd_up = true;
> return 0;
> out_lockd:
> - lockd_down();
> + lockd_down(&init_net);
> out_racache:
> nfsd_racache_shutdown();
> return ret;
> @@ -246,7 +246,7 @@ static void nfsd_shutdown(void)
> if (!nfsd_up)
> return;
> nfs4_state_shutdown();
> - lockd_down();
> + lockd_down(&init_net);
> nfsd_racache_shutdown();
> nfsd_up = false;
> }
> diff --git a/include/linux/lockd/bind.h b/include/linux/lockd/bind.h
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> --- a/include/linux/lockd/bind.h
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> @@ -54,7 +54,7 @@ extern void nlmclnt_done(struct nlm_host *host);
>
> extern int nlmclnt_proc(struct nlm_host *host, int cmd,
> struct file_lock *fl);
> -extern int lockd_up(void);
> -extern void lockd_down(void);
> +extern int lockd_up(struct net *net);
> +extern void lockd_down(struct net *net);
>
> #endif /* LINUX_LOCKD_BIND_H */
>

```

Subject: Re: [PATCH v2] Lockd: pass network namespace to creation and destruction routines

Posted by [Stanislav Kinsbursky](#) on Wed, 11 Apr 2012 16:12:04 GMT

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> On Thu, Mar 29, 2012 at 06:54:33PM +0400, Stanislav Kinsbursky wrote:

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>

> Did you want this in Trond's tree or mine?

>

Your tree is preferred since I'm working with it.

> --b.

>

>>

>> These routines are called from locks_reclaimer() kernel thread. This thread
>> works in "init_net" network context and currently relies on presence on lockd
>> thread and it's per-net resources. Thus lockd_up() and lockd_down() can't relay
>> on current network context. So let's pass current one into them.

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>>

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>> u32 nlm_version = (nlm_init->nfs_version == 2) ? 1 : 4;

>> int status;

>>

>> - status = lockd_up();

>> + status = lockd_up(nlm_init->net);

>> if (status < 0)

>> return ERR_PTR(status);

>>

>> @@ -65,7 +65,7 @@ struct nlm_host *nlmcnt_init(const struct nlmcnt_initdata *nlm_init)

>> nlm_init->hostname, nlm_init->noresvport,

>> nlm_init->net);

>> if (host == NULL) {

>> - lockd_down();

>> + lockd_down(nlm_init->net);

>> return ERR_PTR(-ENOLCK);

>> }

>>

>> @@ -80,8 +80,10 @@ EXPORT_SYMBOL_GPL(nlmcnt_init);

>> */

>> void nlmcnt_done(struct nlm_host *host)

```

>> {
>> + struct net *net = host->net;
>> +
>> nlmclnt_release_host(host);
>> - lockd_down();
>> + lockd_down(net);
>> }
>> EXPORT_SYMBOL_GPL(nlmclnt_done);
>>
>> @@ -220,11 +222,12 @@ reclaimer(void *ptr)
>> struct nlm_wait *block;
>> struct file_lock *fl, *next;
>> u32 nsmstate;
>> + struct net *net = host->net;
>>
>> allow_signal(SIGKILL);
>>
>> down_write(&host->h_rwsem);
>> - lockd_up(); /* note: this cannot fail as lockd is already running */
>> + lockd_up(net); /* note: this cannot fail as lockd is already running */
>>
>> dprintk("lockd: reclaiming locks for host %s\n", host->h_name);
>>
>> @@ -275,6 +278,6 @@ restart:
>>
>> /* Release host handle after use */
>> nlmclnt_release_host(host);
>> - lockd_down();
>> + lockd_down(net);
>> return 0;
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>> /*
>>  * Bring up the lockd process if it's not already up.
>>  */
>> -int lockd_up(void)
>> +int lockd_up(struct net *net)
>> {
>> struct svc_serv *serv;
>> int error = 0;
>> - struct net *net = current->nsproxy->net_ns;
>>
>> mutex_lock(&nlmsvc_mutex);
>> /*

```

```

>> @@ -377,12 +376,12 @@ EXPORT_SYMBOL_GPL(lockd_up);
>>  * Decrement the user count and bring down lockd if we're the last.
>>  */
>> void
>> -lockd_down(void)
>> +lockd_down(struct net *net)
>> {
>>     mutex_lock(&nlmsvc_mutex);
>>     if (nlmsvc_users) {
>>         if (--nlmsvc_users) {
>> -    lockd_down_net(current->nsproxy->net_ns);
>> +    lockd_down_net(net);
>>         goto out;
>>     }
>> } else {
>> diff --git a/fs/nfsd/nfssvc.c b/fs/nfsd/nfssvc.c
>> index fce472f..0f3e35b 100644
>> --- a/fs/nfsd/nfssvc.c
>> +++ b/fs/nfsd/nfssvc.c
>> @@ -220,7 +220,7 @@ static int nfsd_startup(unsigned short port, int nrservs)
>>     ret = nfsd_init_socks(port);
>>     if (ret)
>>         goto out_racache;
>> - ret = lockd_up();
>> + ret = lockd_up(&init_net);
>>     if (ret)
>>         goto out_racache;
>>     ret = nfs4_state_start();
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>>     return 0;
>> out_lockd:
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>> + lockd_down(&init_net);
>> out_racache:
>>     nfsd_racache_shutdown();
>>     return ret;
>> @@ -246,7 +246,7 @@ static void nfsd_shutdown(void)
>>     if (!nfsd_up)
>>         return;
>>     nfs4_state_shutdown();
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>> -extern void lockd_down(void);
>> +extern int lockd_up(struct net *net);
>> +extern void lockd_down(struct net *net);
>>
>> #endif /* LINUX_LOCKD_BIND_H */
>>

```

--

Best regards,
Stanislav Kinsbursky

Subject: Re: [PATCH v2] Lockd: pass network namespace to creation and destruction routines

Posted by [bfields](#) on Wed, 11 Apr 2012 21:32:45 GMT

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On Wed, Apr 11, 2012 at 08:12:04PM +0400, Stanislav Kinsbursky wrote:

```

> >On Thu, Mar 29, 2012 at 06:54:33PM +0400, Stanislav Kinsbursky wrote:
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OK, applying.--b.

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> >>  u32 nlm_version = (nlm_init->nfs_version == 2) ? 1 : 4;
> >>  int status;
> >>
> >>- status = lockd_up();
> >>+ status = lockd_up(nlm_init->net);
> >>  if (status < 0)
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> >>@@ -65,7 +65,7 @@ struct nlm_host *nlmcnt_init(const struct nlmclnt_initdata *nlm_init)
> >>     nlm_init->hostname, nlm_init->noresvport,
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> >>  if (host == NULL) {
> >>- lockd_down();
> >>+ lockd_down(nlm_init->net);
> >>    return ERR_PTR(-ENOLCK);
> >>  }
> >>
> >>@@ -80,8 +80,10 @@ EXPORT_SYMBOL_GPL(nlmcnt_init);
> >>  */
> >> void nlmcnt_done(struct nlm_host *host)
> >> {
> >>+ struct net *net = host->net;
> >>+
> >>  nlmcnt_release_host(host);
> >>- lockd_down();
> >>+ lockd_down(net);
> >> }
> >> EXPORT_SYMBOL_GPL(nlmcnt_done);
> >>
> >>@@ -220,11 +222,12 @@ reclaim(void *ptr)
> >>  struct nlm_wait *block;
> >>  struct file_lock *fl, *next;
> >>  u32 nsmstate;

```

```

>>>+ struct net *net = host->net;
>>>
>>> allow_signal(SIGKILL);
>>>
>>> down_write(&host->h_rwsem);
>>>- lockd_up(); /* note: this cannot fail as lockd is already running */
>>>+ lockd_up(net); /* note: this cannot fail as lockd is already running */
>>>
>>> dprintf("lockd: reclaiming locks for host %s\n", host->h_name);
>>>
>>>@@ -275,6 +278,6 @@ restart:
>>>
>>> /* Release host handle after use */
>>> nlmcnt_release_host(host);
>>>- lockd_down();
>>>+ lockd_down(net);
>>> return 0;
>>> }
>>>diff --git a/fs/lockd/svc.c b/fs/lockd/svc.c
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>>>+++ b/fs/lockd/svc.c
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>>> /*
>>>  * Bring up the lockd process if it's not already up.
>>>  */
>>>-int lockd_up(void)
>>>+int lockd_up(struct net *net)
>>> {
>>> struct svc_serv *serv;
>>> int error = 0;
>>>- struct net *net = current->nsproxy->net_ns;
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>>> mutex_lock(&nlmsvc_mutex);
>>> /*
>>>@@ -377,12 +376,12 @@ EXPORT_SYMBOL_GPL(lockd_up);
>>>  * Decrement the user count and bring down lockd if we're the last.
>>>  */
>>> void
>>>-lockd_down(void)
>>>+lockd_down(struct net *net)
>>> {
>>> mutex_lock(&nlmsvc_mutex);
>>> if (nlmsvc_users) {
>>> if (--nlmsvc_users) {
>>>- lockd_down_net(current->nsproxy->net_ns);
>>>+ lockd_down_net(net);
>>> goto out;

```

```

>>> }
>>> } else {
>>>diff --git a/fs/nfsd/nfssvc.c b/fs/nfsd/nfssvc.c
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>>> if (ret)
>>> goto out_racache;
>>> ret = nfs4_state_start();
>>>@@ -229,7 +229,7 @@ static int nfsd_startup(unsigned short port, int nrservs)
>>> nfsd_up = true;
>>> return 0;
>>> out_lockd:
>>>- lockd_down();
>>>+ lockd_down(&init_net);
>>> out_racache:
>>> nfsd_racache_shutdown();
>>> return ret;
>>>@@ -246,7 +246,7 @@ static void nfsd_shutdown(void)
>>> if (!nfsd_up)
>>> return;
>>> nfs4_state_shutdown();
>>>- lockd_down();
>>>+ lockd_down(&init_net);
>>> nfsd_racache_shutdown();
>>> nfsd_up = false;
>>> }
>>>diff --git a/include/linux/lockd/bind.h b/include/linux/lockd/bind.h
>>>index 11a966e..4d24d64 100644
>>>--- a/include/linux/lockd/bind.h
>>>+++ b/include/linux/lockd/bind.h
>>>@@ -54,7 +54,7 @@ extern void nlmclnt_done(struct nlm_host *host);
>>>
>>> extern int nlmclnt_proc(struct nlm_host *host, int cmd,
>>> struct file_lock *fl);
>>>-extern int lockd_up(void);
>>>-extern void lockd_down(void);
>>>+extern int lockd_up(struct net *net);
>>>+extern void lockd_down(struct net *net);
>>>
>>> #endif /* LINUX_LOCKD_BIND_H */
>>>

```

>
>
> --
> Best regards,
> Stanislav Kinsbursky
