

## Ruby - Bug #14171

### can't alloc thread (ThreadError) in DRbServer#main\_loop

12/12/2017 01:28 PM - Eregon (Benoit Daloze)

<b>Status:</b>	Closed	
<b>Priority:</b>	Normal	
<b>Assignee:</b>	seki (Masatoshi Seki)	
<b>Target version:</b>	2.5	
<b>ruby -v:</b>	ruby 2.5.0dev (2017-12-12 trunk 61147) [x86_64-linux]	<b>Backport:</b> 2.3: UNKNOWN, 2.4: UNKNOWN

#### Description

The bug can be reproduced by adding `Thread.report_on_exception = true` at the top of `lib/drb/drb.rb`.

```
DRbTests::TestBug4409#test_bug4409#<Thread:0x000055597db83478@ruby/lib/drb/drb.rb:1657 aborting> terminated with exception:
```

```
Traceback (most recent call last):
```

```
 4: from ruby/lib/drb/drb.rb:1665:in `block in main_loop'
 3: from ruby/lib/drb/drb.rb:1665:in `loop'
 2: from ruby/lib/drb/drb.rb:1679:in `block (2 levels) in main_loop'
 1: from ruby/lib/drb/drb.rb:1677:in `ensure in block (2 levels) in main_loop'
ruby/lib/drb/drb.rb:1677:in `new': can't alloc thread (ThreadError)
```

This `Thread.new` fails:

```
if Thread.current['DRb']['stop_service']
  Thread.new { stop_service }
end
```

I think we don't need an extra `Thread` to stop the `DRbServer`.

We just need to tweak the logic in `DRbServer#stop_service`.

Proposed patch attached.

I need to commit it soon to avoid hundreds of warnings during `make test-all` for [#14143](#).

[@seki \(Masatoshi Seki\)](#) Could you review?

#### Associated revisions

##### Revision [ca1c3d41fa62bf15856a1c31156b60862616b3fa](#) - 12/12/2017 06:43 PM - Eregon (Benoit Daloze)

Avoid creating a `Thread` for shutting down a `DRbServer`

- lib/drb/drb.rb: avoid creating a `Thread` and call the shutdown logic directly. Do not try to kill or join the current `Thread`. `Thread.new { stop_service }` caused "can't alloc thread (ThreadError)", which is shown with `Thread.report_on_exception = true`. [Bug #14171]

git-svn-id: [svn+ssh://ci.ruby-lang.org/ruby/trunk@61184 b2dd03c8-39d4-4d8f-98ff-823fe69b080e](#)

##### Revision [ca1c3d41](#) - 12/12/2017 06:43 PM - Eregon (Benoit Daloze)

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#### History

##### #1 - 12/12/2017 01:31 PM - Eregon (Benoit Daloze)

- Target version set to 2.5

**#2 - 12/12/2017 06:44 PM - Eregon (Benoit Daloze)**

- Status changed from Open to Closed

Applied in changeset trunk|r61184.

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Avoid creating a Thread for shutting down a DRbServer

- lib/drbd/db.rb: avoid creating a Thread and call the shutdown logic directly. Do not try to kill or join the current Thread. Thread.new { stop\_service } caused "can't alloc thread (ThreadError)", which is shown with Thread.report\_on\_exception = true. [Bug #14171]

**#3 - 12/19/2017 03:42 PM - Eregon (Benoit Daloze)**

I also applied @seki's fix in r61342.

**Files**

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0001-Avoid-creating-a-Thread-for-shutting-down-a-DRbServe.patch	1.89 KB	12/12/2017	Eregon (Benoit Daloze)
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