Add verbose failure messages and avoid infamous DRb::DRbConnError

When I stared using DRuby, I kept getting a strange and cryptic error message DRb::DRbConnError 'connection closed'. Turns out it was due to some silly mistake on the server side of the relationship. It took hours to figure out. The only way I was able to do it was to patch ruby drb after closely studying the source.

Others have had the same issues:

https://www.ruby-forum.com/topic/193984
https://github.com/Mon-Ouie/pry-remote/issues/8

Here is an example where this makes a difference:

```ruby
# drb_server.rb
require 'drb'

class FrontObject
  def foo
    # generates Runtime Exception of Insecure Operation
    result = `ls -l`
  end
end

DRb.start_service("druby://localhost:8787", FrontObject.new, safe_level: 3)
DRb.thread.join

# drb_client.rb
require 'drb'

object = DRbObject.new_with_uri("druby://localhost:8787")
puts object.foo

Output before patch is applied:

$ ruby drb_server.rb
$ ruby drb_client.rb
/Users/mike/.rbenv/versions/2.2.3/lib/ruby/2.2.0/drb/drb.rb:578:in `load': connection closed (DRb::DRbConnError)

Output after patch is applied:

$ ruby drb_server.rb
Insecure operation `'' at level 3

$ ruby drb_client.rb
/Users/mike/.rbenv/versions/2.2.3/lib/ruby/2.2.0/drb/drb.rb:578:in `load': connection closed (DRb::DRbConnError)

Original issue and proposed solution started on github: https://github.com/ruby/ruby/pull/1260

Associated revisions
Revision 018f0812 - 02/28/2016 11:28 AM - seki (Masatoshi Seki)

- lib/drb/drb.rb (error_print): Add verbose failure messages and avoid infamous DRb:DRbConnError. [Feature #12101]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@53962 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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History

#1 - 02/22/2016 05:25 PM - yagudaev (Michael Yagudaev)

- Tracker changed from Bug to Feature

#2 - 02/22/2016 06:30 PM - drbrain (Eric Hodel)

I think printing out messages to $stdout is not the best way. If I'm running DRb as a server I may have no way of seeing these and knowing if it is a problem.

Better, I think, would be to allow a user to configure a callback or logger that is invoked when an error on the client side is discovered.

See also https://rubygems.org/gems/drbdump which gives you tcpdump-like views of communications amongst drb peers.

#3 - 02/28/2016 11:28 AM - seki (Masatoshi Seki)

- Status changed from Open to Closed

Applied in changeset r53962.

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