

Ruby trunk - Bug #1713

IMAP NO response messages are unavailable

07/02/2009 07:25 AM - drbrain (Eric Hodel)

Status: Closed	
Priority: Normal	
Assignee: shugo (Shugo Maeda)	
Target version:	
ruby -v: ruby 1.9.2dev (2009-06-30 trunk 23904) [i386-darwin9.7.0]	Backport:

Description

=begin

In RFC 3501 the IMAP server may respond with information the user can use to retry their request.

For the COPY command (6.4.7):

```
If the destination mailbox does not exist, a server SHOULD return an error. It SHOULD NOT automatically create the mailbox. Unless it is certain that the destination mailbox can not be created, the server MUST send the response code "[TRYCREATE]" as the prefix of the text of the tagged NO response. This gives a hint to the client that it can attempt a CREATE command and retry the COPY if the CREATE is successful.
```

Also for the SEARCH command (6.4.4):

```
If the server does not support the specified [CHARSET], it MUST return a tagged NO response (not a BAD). This response SHOULD contain the BADCHARSET response code, which MAY list the [CHARSET]s supported by the server.
```

Net::IMAP doesn't easily give access to this information. For example:

```
$ cat imap_copy.rb
require 'net/imap'
```

```
Net::IMAP.debug = true
imap = Net::IMAP.new 'localhost', 143
imap.login 'test', 'test'
imap.select 'INBOX'
uids = imap.search 'ALL'
begin
  imap.copy uids, 'no such mailbox'
  puts 'copy successful'
rescue Net::IMAP::NoResponseError => e
  p e
end
```

```
$ ruby imap_copy.rb
S: * OK Dovecot ready.
[...]
C: RUBY0004 COPY 1 "no such mailbox"
S: RUBY0004 NO [TRYCREATE] Mailbox doesn't exist: no such mailbox
#
```

Here the server told us we could probably fix this by sending CREATE first, so we could handle this intelligently. Unfortunately, we can't tell if the mailbox outright doesn't exist or if it simply can't be selected:

```
irb(main):016:0> imap.list "", 'directory'
C: RUBY0012 LIST "" directory
S: * LIST (\Noselect \HasChildren) "/" "directory"
S: RUBY0012 OK List completed.
```

```
irb(main):015:0> imap.copy [1], 'directory'
C: RUBY0011 COPY 1 directory
S: RUBY0011 NO Mailbox isn't selectable: directory
```

The attached patch adds the response to Net::IMAP::ResponseError which allows us to behave intelligently:

```
$ cat imap_copy.rb
require 'net/imap'

Net::IMAP.debug = true
imap = Net::IMAP.new 'localhost', 143
imap.login 'test', 'test'
imap.select 'INBOX'
uids = imap.search 'ALL'

begin
imap.copy uids, 'no such mailbox'
puts 'copy successful'
rescue Net::IMAP::NoResponseError => e
raise unless e.response.data.code.name == 'TRYCREATE'
imap.create 'no such mailbox'
imap.copy uids, 'no such mailbox'
end
$ ruby imap_copy.rb
S: * OK Dovecot ready.
[...]
C: RUBY0004 COPY 1 "no such mailbox"
S: RUBY0004 NO [TRYCREATE] Mailbox doesn't exist: no such mailbox
C: RUBY0005 CREATE "no such mailbox"
S: RUBY0005 OK Create completed.
C: RUBY0006 COPY 1 "no such mailbox"
S: RUBY0006 OK [COPYUID 1 64 1] Copy completed.
=end
```

History

#1 - 07/02/2009 07:29 AM - drbrain (Eric Hodel)

- File *net_imap_response_in_error.diff* added

=begin

=end

#2 - 07/02/2009 10:29 AM - shugo (Shugo Maeda)

- Assignee set to *shugo* (Shugo Maeda)

=begin

=end

#3 - 07/02/2009 11:27 AM - shugo (Shugo Maeda)

- Status changed from *Open* to *Closed*

- % Done changed from *0* to *100*

=begin

Applied in changeset r23934.

=end

Files

net_imap_response_in_error.diff

1.54 KB

07/02/2009

drbrain (Eric Hodel)