

Redmine - Patch #14101

Receive IMAP by uid's

2013-05-20 15:21 - Pierre Pretorius

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Jean-Philippe Lang	% Done:	0%
Category:	Email receiving	Estimated time:	0.00 hour
Target version:	2.3.2		

Description

This is not a new bug, it has been reported in the forums by other users [here](#) and [here](#), no solution was proposed so here is mine:

When running the redmine:email:receive_imap with the folder, move_on_success and move_on_failure parameter I randomly get the error below, although it seems like it never occurs when there is only a single or few unread mails. It happens with a wide variety of Redmine versions although I'm running 2.3.1 with all the latest stable gem versions.

```
rake aborted!  
undefined method `[]' for nil:NilClass  
/opt/bitnami/apps/redmine/htdocs/lib/redmine/imap.rb:33:in `block in check'  
/opt/bitnami/apps/redmine/htdocs/lib/redmine/imap.rb:32:in `each'  
/opt/bitnami/apps/redmine/htdocs/lib/redmine/imap.rb:32:in `check'  
/opt/bitnami/apps/redmine/htdocs/lib/tasks/email.rake:133:in `block (3 levels) in <top (required)>'  
/opt/bitnami/ruby/lib/ruby/gems/1.9.1/gems/rake-10.0.3/lib/rake/task.rb:228:in `call'
```

The problem comes down to this line of code in lib/redmine/imap.rb:

```
imap.fetch(message_id,'RFC822')[0].attr['RFC822']
```

After debugging I can confirm that the error occurs when calling [0] which means that imap.fetch returns nil. If I add a simple nil check and do not process the mail further if it is nil, then the mail is still left unread in the gmail mailbox, but the label (folder the imap task reads from) has been removed which still means a mail will be missed even if the task runs again.

When looking at online examples, I see most use the uid methods instead of the standard one. I was able to solve this problem by changing lib/redmine/imap.rb to use the uid methods as listed below:

```
imap.uid_search(['NOT', 'SEEN']).each do |uid|  
  msg = imap.uid_fetch(uid,'RFC822')[0].attr['RFC822']  
  logger.debug "Receiving message #{uid}" if logger && logger.debug?  
  if MailHandler.receive(msg, options)  
    logger.debug "Message #{uid} successfully received" if logger && logger.debug?  
    if imap_options[:move_on_success]  
      imap.uid_copy(uid, imap_options[:move_on_success])  
    end  
    imap.uid_store(uid, "+FLAGS", [:Seen, :Deleted])  
  else  
    logger.debug "Message #{uid} can not be processed" if logger && logger.debug?  
    imap.uid_store(uid, "+FLAGS", [:Seen])  
    if imap_options[:move_on_failure]  
      imap.uid_copy(uid, imap_options[:move_on_failure])  
    end  
    imap.uid_store(uid, "+FLAGS", [:Deleted])  
  end  
end
```

end
end

Even when the nil pointer is not thrown with the original Redmine code, the `move_on_success` and `move_on_failure` doesn't work correctly every time. In the mailbox I see some messages are left with only the success label and some with the original and success label. Moving to uid's solved this problem as well.

Related issues:

Related to Redmine - Patch # 14103: Disconnect and logout from IMAP after mai...

Closed

Associated revisions

Revision 11906 - 2013-05-28 20:41 - Jean-Philippe Lang

Use `uid_methods` for retrieving IMAP messages (#14101).

Patch by Pierre Pretorius.

Revision 12000 - 2013-07-11 20:37 - Jean-Philippe Lang

Merged r11906 from trunk (#14101).

History

#1 - 2013-05-28 20:41 - Jean-Philippe Lang

- Status changed from *New* to *Resolved*
- Assignee set to *Jean-Philippe Lang*
- Target version set to *2.3.2*

Patch committed in r11906, thanks.

#2 - 2013-07-11 20:37 - Jean-Philippe Lang

- Status changed from *Resolved* to *Closed*

Merged.

#3 - 2013-09-28 17:52 - Alexey Kireev

Server `imap.yandex.ru` with empty mailbox:

```
sudo -u redmine bundle exec rake -f /var/lib/redmine/Rakefile redmine:email:receive_imap RAILS_ENV="production" host=imap.yandex.ru
ssl=YES username=username@dezigner.ru password=password project=project1 no_permission_check=1 unknown_user=accept port=993
--trace
** Invoke redmine:email:receive_imap (first_time)
** Invoke environment (first_time)
** Execute environment
** Execute redmine:email:receive_imap
rake aborted!
```

```

undefined method `[]' for nil:NilClass
/usr/lib64/ruby/1.9.1/net/imap.rb:1332:in `block in search_internal'
/usr/lib64/ruby/1.9.1/monitor.rb:211:in `mon_synchronize'
/usr/lib64/ruby/1.9.1/net/imap.rb:1326:in `search_internal'
/usr/lib64/ruby/1.9.1/net/imap.rb:757:in `uid_search'
/var/lib/redmine/lib/redmine/imap.rb:32:in `check'
/var/lib/redmine/lib/tasks/email.rake:141:in `block (3 levels) in <top (required)>'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/lib/rake/task.rb:236:in `call'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/lib/rake/task.rb:236:in `block in execute'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/lib/rake/task.rb:231:in `each'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/lib/rake/task.rb:231:in `execute'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/lib/rake/task.rb:175:in `block in invoke_with_call_chain'
/usr/lib64/ruby/1.9.1/monitor.rb:211:in `mon_synchronize'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/lib/rake/task.rb:168:in `invoke_with_call_chain'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/lib/rake/task.rb:161:in `invoke'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/lib/rake/application.rb:149:in `invoke_task'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/lib/rake/application.rb:106:in `block (2 levels) in top_level'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/lib/rake/application.rb:106:in `each'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/lib/rake/application.rb:106:in `block in top_level'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/lib/rake/application.rb:115:in `run_with_threads'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/lib/rake/application.rb:100:in `top_level'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/lib/rake/application.rb:78:in `block in run'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/lib/rake/application.rb:165:in `standard_exception_handling'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/lib/rake/application.rb:75:in `run'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/gems/rake-10.1.0/bin/rake:33:in `<top (required)>'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/bin/rake:23:in `load'
/var/lib/redmine/vendor/bundle/ruby/1.9.1/bin/rake:23:in `<main>'
Tasks: TOP => redmine:email:receive_imap

```

Configuration:

```

Environment:
  Redmine version      2.3.3.stable
  Ruby version          1.9.3-p448 (2013-06-27) [x86_64-linux]
  Rails version         3.2.13
  Environment           production
  Database adapter      Mysql2

Redmine plugins:
  no plugin installed

```

#4 - 2013-10-02 08:48 - Toshi MARUYAMA

Alexey Kireev wrote:

```

Server imap.yandex.ru with empty mailbox:
[...]

Configuration:

```

| [...]]

Do not post to closed issue which have released.

I have created new issue #15025.

Files

receive_imap_by_uid.patch	2.04 KB	2013-05-20	Pierre Pretorius
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