

Redmine - Feature #41738

Allow IMAP4 email receiving to skip SSL certificate verification with `ssl=force` option

2024-11-13 03:32 - Grischa Zengel

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Go MAEDA	% Done:	0%
Category:	Email receiving	Estimated time:	0.00 hour
Target version:	6.1.0		
Resolution:	Fixed		
Description			
I get OpenSSL::SSL::SSLError: SSL_connect returned=1 errno=0 peeraddr=10.19.1.103:993 state=error: certificate verify failed (unable to get local issuer certificate) (OpenSSL::SSL::SSLError)			
This change works: imap = Net::IMAP.new(host, port: port, ssl: { :verify_mode => OpenSSL::SSL::VERIFY_NONE })			
Perhabs it will fix #38253 , too.			
Related issues:			
Related to Redmine - Feature #16707: Integrate support of SSL for POP3 incomi...		Closed	
Related to Redmine - Defect #38253: Cannot read e-mails fo creating tickets		New	
Related to Redmine - Feature #19324: SSL/TLS certificate verification fails o...		Needs feedback	

Associated revisions

Revision 23414 - 2024-12-20 09:39 - Go MAEDA

Add description for `ssl=force` option to rake task `redmine:email:receive_pop3` (#41738).

Revision 23415 - 2024-12-20 09:42 - Go MAEDA

Allow IMAP4 email receiving to skip SSL certificate verification with `ssl=force` option (#41738).

Patch by Go MAEDA (user:maeda).

History

#1 - 2024-11-13 03:41 - Grischa Zengel

In my case debug was very useful:

```
debug_client = Net::IMAP.new(hostname, debug: true)
```

Here are some more options:

```
# ==== Options
#
# Accepts the following options:
#
# [port]
#   Port number. Defaults to 993 when +ssl+ is truthy, and 143 otherwise.
#
# [ssl]
#   If +true+, the connection will use TLS with the default params set by
#   {OpenSSL::SSL::SSLContext#set_params}[https://docs.ruby-lang.org/en/master/OpenSSL/SSL/SSLContext.html
#method-i-set_params].
#   If +ssl+ is a hash, it's passed to
#   {OpenSSL::SSL::SSLContext#set_params}[https://docs.ruby-lang.org/en/master/OpenSSL/SSL/SSLContext.html
#method-i-set_params];
#   the keys are names of attribute assignment methods on
#   SSLContext[https://docs.ruby-lang.org/en/master/OpenSSL/SSL/SSLContext.html]. For example:
#
```

```

# [{ca_file}[https://docs.ruby-lang.org/en/master/OpenSSL/SSL/SSLContext.html#attribute-i-ca_file]]
#   The path to a file containing a PEM-format CA certificate.
# [{ca_path}[https://docs.ruby-lang.org/en/master/OpenSSL/SSL/SSLContext.html#attribute-i-ca_path]]
#   The path to a directory containing CA certificates in PEM format.
# [{min_version}[https://docs.ruby-lang.org/en/master/OpenSSL/SSL/SSLContext.html#method-i-min_version-3
D]]
#   Sets the lower bound on the supported SSL/TLS protocol version. Set to
#   an +OpenSSL+ constant such as +OpenSSL::SSL::TLS1_2_VERSION+,
#   [{verify_mode}[https://docs.ruby-lang.org/en/master/OpenSSL/SSL/SSLContext.html#attribute-i-verify_mod
e]]
#   SSL session verification mode. Valid modes include
#   +OpenSSL::SSL::VERIFY_PEER+ and +OpenSSL::SSL::VERIFY_NONE+.
#
#   See {OpenSSL::SSL::SSLContext}[https://docs.ruby-lang.org/en/master/OpenSSL/SSL/SSLContext.html] for o
ther valid SSL context params.
#
#   See DeprecatedClientOptions.new for deprecated SSL arguments.
#
# [config]
#   A Net::IMAP::Config object to use as the basis for #config. By default,
#   the global Net::IMAP.config is used.
#
#   >>>
#   *NOTE:* +config+ does not set #config directly---it sets the _parent_
#   config for inheritance. Every client creates its own unique #config.
#
#   All other keyword arguments are forwarded to Net::IMAP::Config.new, to
#   initialize the client's #config. For example:
#
#   [{open_timeout}[rdoc-ref:Config#open_timeout]]
#     Seconds to wait until a connection is opened
#   [{idle_response_timeout}[rdoc-ref:Config#idle_response_timeout]]
#     Seconds to wait until an IDLE response is received
#
#   See Net::IMAP::Config for other valid options.

```

#2 - 2024-11-14 11:16 - Go MAEDA

After reading lib/redmine/pop3.rb, I found that specifying ssl=force for receiving emails via POP3 allows skipping certificate verification. However, despite being available for POP3, this option cannot be set for IMAP4, which lacks consistency. The same option should be available for IMAP4 as well.

[source:tags/6.0.1/lib/redmine/pop3.rb#L25](https://source.tags/6.0.1/lib/redmine/pop3.rb#L25)

```

def check(pop_options={}, options={})
  if pop_options[:ssl]
    ssl = true
    if pop_options[:ssl] == 'force'
      Net::POP3.enable_ssl(OpenSSL::SSL::VERIFY_NONE)
    else
      Net::POP3.enable_ssl(OpenSSL::SSL::VERIFY_PEER)
    end
  else
    ssl = false
  end
end

```

#3 - 2024-11-14 12:21 - Go MAEDA

- Tracker changed from Defect to Feature
- Affected version deleted (6.0.1)

#4 - 2024-11-20 09:05 - Grischa Zengel

It's a good solution. Why not putting it on next release?

#5 - 2024-12-08 08:04 - Go MAEDA

- Related to Feature #16707: Integrate support of SSL for POP3 incoming emails added

#6 - 2024-12-08 08:30 - Go MAEDA

- File 41738.patch added

The attached patch introduces support for the `ssl=force` option, which allows skipping SSL certificate verification. This change ensures consistency with `lib/redmine/pop3.rb`.

#7 - 2024-12-08 16:27 - Grischa Zengel

Thanks.

You can close [#38253](#).

#8 - 2024-12-09 00:36 - Go MAEDA

- Target version set to Candidate for next major release

#9 - 2024-12-18 05:25 - Go MAEDA

- File `41738-update-description.patch` added

- Target version changed from Candidate for next major release to 6.1.0

This additional patch updates the task descriptions for `redmine:email:receive_imap` and `redmine:email:receive_pop3` rake tasks to clarify that setting `ssl=force` disables server certificate verification.

Setting the target version to 6.1.0.

#10 - 2024-12-18 05:34 - Go MAEDA

- Category set to Email receiving

#11 - 2024-12-18 05:34 - Go MAEDA

- Related to Defect [#38253](#): Cannot read e-mails fo creating tickets added

#12 - 2024-12-18 05:40 - Go MAEDA

- Related to Feature [#19324](#): SSL/TLS certificate verification fails on `receive_imap` added

#13 - 2024-12-20 09:45 - Go MAEDA

- Subject changed from `IMAP receive: option to ignore certificate` to `Allow IMAP4 email receiving to skip SSL certificate verification with ssl=force option`

- Status changed from New to Closed

- Assignee set to Go MAEDA

- Resolution set to Fixed

Committed the change in [r23415](#).

The rake task `redmine:email:receive_imap` now supports the `ssl=force` option to skip server certificate verification, just like `redmine:email:receive_pop3`.

Files

<code>41738.patch</code>	736 Bytes	2024-12-08	Go MAEDA
<code>41738-update-description.patch</code>	1.14 KB	2024-12-18	Go MAEDA