Redmine - Defect #31549

LF line terminators cause misparse of a multi-part email when rdm-mailhandler.rb is invoked from /etc/aliases

2019-06-11 04:44 - Yuichi HARADA

Status: Closed Start date:

Priority: Normal Due date:

Assignee: Go MAEDA % Done: 0%

Category: Email receiving Estimated time: 0.00 hour

Target version: 4.1.0

Resolution: Affected version:

Description

The issue's description will be garbled if you receive the following email.

- The multi-part mail.
- The charset of the text-part is UTF-8.
- The text-part contains multibyte-character .
- · File is attached.
- Line terminator is LF (0x0a) .

Related issues:

Related to Redmine - Defect #31900: Problem with tickets issued by rdm-mailha... **New**

Associated revisions

Revision 18317 - 2019-06-26 01:38 - Go MAEDA

LF line terminators cause misparse of a multi-part email when rdm-mailhandler.rb is invoked from /etc/aliases (#31549).

Patch by Yuichi HARADA.

Revision 18544 - 2019-09-26 15:01 - Go MAEDA

Incoming emails may cause "invalid byte sequence" error depending on the default external encoding, due to r18317 (#31549).

History

#1 - 2019-06-11 05:09 - Yuichi HARADA

- File fixed-31549.patch added

I created a patch, so I will attach it.

#2 - 2019-06-11 05:30 - Go MAEDA

- Status changed from New to Confirmed
- Target version set to Candidate for next minor release

#3 - 2019-06-11 10:40 - Pavel Rosický

have you encountered with this problem for real? according to https://tools.ietf.org/html/rfc6152 line-endings should be always CRLF

but test fixtures could be saved with different line-endings. On the other hand this change could break emails with binary encodings (attachments), that's why I don't think the patch should be applied.

see related discussion

https://github.com/mikel/mail/pull/1113

and

https://github.com/mikel/mail/pull/1168

#4 - 2019-06-13 07:23 - Yuichi HARADA

- File fixed-31549-v2.patch added

Pavel Rosický wrote:

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Thank you for the feedback.

I confirmed the situation. The cause was that when forwarding mail from Postfix to Redmine using rdm-mailhandler.rb, CRLF was replaced with LF. I think that you are configuring Postfix referring to Forwarding emails from your email server.

I rewrote the patch of rdm-mailhandler.rb. Please delete the previous patch. (fixed-31549.patch)

#5 - 2019-06-20 08:43 - Yuichi HARADA

- File fixed-31549-v3.patch added

Yuichi HARADA wrote:

I rewrote the patch of rdm-mailhandler.rb. Please delete the previous patch. (fixed-31549.patch)

I didn't need encoding, so I rewrote the patch.

#6 - 2019-06-20 11:49 - Go MAEDA

- Target version changed from Candidate for next minor release to 4.0.5

Using the same regular expression as Mail::Utilities.binary unsafe to crlf is faster.

Benchmark script:

```
require 'benchmark/ips'

str = "0123456789\r0123456789\r\n0123456789\n" * 1000

Benchmark.ips do |x|
    x.report('/\r?\n|\r\n?/') do
    str.gsub(/\r?\n|\r\n?/, "\r\n")
    end

x.report('/(?<!\r)\n|\r(?!\n)/') do
    str.gsub(/(?<!\r)\n|\r(?!\n)/, "\r\n")
    end

x.compare!
end</pre>
```

Result:

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#7 - 2019-06-20 13:05 - Go MAEDA

- Subject changed from When the line feed code is LF, multi-part mail is misrecognized as single-part mail to Line terminators in an email are LF instead of CRLF when rdm-mailhandler.rb is invoked from /etc/aliases and it causes misparse of the email

#8 - 2019-06-26 01:39 - Go MAEDA

- Subject changed from Line terminators in an email are LF instead of CRLF when rdm-mailhandler.rb is invoked from /etc/aliases and it causes misparse of the email to LF line terminators cause misparse of a multi-part email when rdm-mailhandler.rb is invoked from /etc/aliases
- Status changed from Confirmed to Closed
- Assignee set to Go MAEDA
- Target version changed from 4.0.5 to 4.1.0

Committed the patch. Thank you for your contribution.

#9 - 2019-09-04 03:36 - Go MAEDA

- Related to Defect #31900: Problem with tickets issued by rdm-mailhandler on redmine 4.0.4 added

#10 - 2019-09-25 18:32 - Sylvain Tissot

File mail_to_redmine added

Using Postfix 3.3.0 alias to forward pipe the attached message using the latest rdm-mailhandler, I have the opposite problem: it used to work before the patch, but since the patch I have the error:

```
Status: 5.3.0
Diagnostic-Code: x-unix; /etc/postfix/rdm-mailhandler.rb:156:in `gsub': invalid
  byte sequence in US-ASCII (ArgumentError) from
  /etc/postfix/rdm-mailhandler.rb:156:in `submit' from
  /etc/postfix/rdm-mailhandler.rb:215:in `<main>'
```

The message piped by Postfix is UTF-8, with LF endings

If I manually convert the message from LF to CRLF before piping to rdm-mailhandler, it works.

```
cat mail_in_utf8_with_lf.eml | unix2dos | /etc/postfix/rdm-mailhandler.rb --project test --url https://redmine.example.com --key ***** --tracker=Maintenance --allow-override=project,tracker,category,priority,status
```

I've tried the following `/etc/aliases` config but it doesn't work (same error with gsub:156):

```
support: "|unix2dos | /etc/postfix/rdm-mailhandler.rb --project test --url https://redmine.example.com --key *
**** --tracker=Maintenance --allow-override=project,tracker,category,priority,status"
```

#11 - 2019-09-25 18:40 - Go MAEDA

- Status changed from Closed to Reopened

#12 - 2019-09-26 04:40 - Go MAEDA

- Status changed from Reopened to Needs feedback

Sylvain Tissot wrote:

Using Postfix 3.3.0 alias to forward pipe the attached message using the latest rdm-mailhandler, I have the opposite problem: it used to work before the patch, but since the patch I have the error:

[...]

Thank you for reporting the error.

Maybe it is because the value of LANG environment variable on your server is set to the locale which does not support UTF-8. A possible value is "C". Ruby's Encoding.default_external respects LANG (see

https://docs.ruby-lang.org/en/2.6.0/Encoding.html#class-Encoding-label-External+encoding). If the LANG is "C", Ruby considers the encoding of the content of files as US-ASCII, not UTF-8.

Could you try again after applying the following patch against the latest rdm-mailhandler.rb?

```
diff --git a/extra/mail_handler/rdm-mailhandler.rb b/extra/mail_handler/rdm-mailhandler.rb
index b7284841d..62c658e09 100644
--- a/extra/mail_handler/rdm-mailhandler.rb
```

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#13 - 2019-09-26 12:14 - Sylvain Tissot

- File email_UTF8_with_emoji.eml added

Hi Go MAEDA,

The LANG environment on the server is en_US.utf8

```
root@mail:/etc/postfix# echo $LANG
en_US.utf8
```

Thanks for your help, I applied the patch in on the latest rdm-mailhandler.rb and tried with a bunch of differents emails. Messages in UTF-8 are now working, as well as attachments.

Only the attached message containing an unicode pizza U+1F355) is bouncing with this error:

```
permission denied. Command output: Request was denied by your Redmine server. Possible reasons: email is sent from an invalid email address or is missing some information.
```

#14 - 2019-09-26 15:05 - Go MAEDA

- Status changed from Needs feedback to Closed

Sylvain Tissot wrote:

Thanks for your help, I applied the patch in on the latest rdm-mailhandler.rb and tried with a bunch of differents emails. Messages in UTF-8 are now working, as well as attachments.

Thank you for your helpful feedback. I have just committed the fix in r18544.

Only the attached message containing an unicode pizza U+1F355) is bouncing with this error:

I think the error is irrelevant to this issue. Please open a new issue.

Files

fixed-31549.patch	3.22 KB	2019-06-11	Yuichi HARADA
fixed-31549-v2.patch	604 Bytes	2019-06-13	Yuichi HARADA
fixed-31549-v3.patch	621 Bytes	2019-06-20	Yuichi HARADA
mail_to_redmine	562 Bytes	2019-09-25	Sylvain Tissot
email_UTF8_with_emoji.eml	436 Bytes	2019-09-26	Sylvain Tissot

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