OpenNebula - Bug #213
EC2 multipart upload installation issue
04/17/2010 10:43 AM - Gyula Csom

Status:	Closed		**Start date:**	04/17/2010
Priority:	Normal		**Due date:**	
Assignee:	Daniel Molina		**% Done:**	100%
Category:			**Estimated time:**	0.00 hour
Target version:	Release 2.0			
Resolution:			**Pull request:**	
Affected Versions:				

Description

Hi there,

while testing the EC2 interface I've ran into the following problem.

After a fresh EC2 (dependency) install the multipart-post doesn't work (on Ubuntu). This seems to be an

installation issue: multipart-post must be separately installed.

Problem

The OCCI userguide mentions that on some platform Curl is buggy, therefore one should use the
multiplart upload (built into Ruby). However, after a fresh install multipart upload doesn't work,
gives back the following error:

    $ econe-upload -M ttylinux.img
    /opt/one/lib/ruby/cloud/econe/EC2QueryClient.rb:173:in `upload_image` Unitialized constant EC2QueryClient::UploadIO
    (NameError)
        from /opt/one/bin/econe-upload:115

Investigation

Though I have no experience in Ruby programming I did some investigation:

    econe-upload:115:
    108: ec2_client = EC2QueryClient::Client.new(auth,url)
    …
    114: rc = ec2_client.upload_image(image, curb)
    115:

    EC2QueryClient.rb:173:
    25: require 'CloudClient'
    26: require 'AWS'
    …
    150: if curb and CURL_LOADED
    …
    168: else
    …
    172:    params["file"]=UploadIO.new(file,
    173:      'application/octet-stream', file_name)
    174:
    175:    req = Net::HTTP::Post::Multipart.new('/', params)

As far as I see upload_image() tries to set the POST parameter named 'file', however the system cannot resolve the
UploadIO symbol. I did some further investigation eg. checked requires within CloudClient:

    CloudClient.rb:
    30: begin
    31:    require 'net/http/post/multipart'

```
32: rescue LoadError
33: end
```

It seems that the above net/http/post/multipart handles multipart posts. The multipart-post documentation seems to confirm this: „Provides an UploadIO helper module to prepare IO objects for inclusion in the params hash of the multipart post object." (http://github.com/nicksieger/multipart-post)

Solution

```
$ sudo gem install multipart-post
```

and now multipart upload works:

```
$ econe-upload -M ttylinux.img
Success: ImageId 4
```

Testing environment

- Ubuntu 9.10 server i386 (Linux 2.6.31)
- Ruby v. 1.8

Cheers,
Gyula

Associated revisions

Revision 4f2a7cd8 - 07/20/2010 06:05 PM - Ruben S. Montero

bug #213: Check if multipart post gem is loaded

Revision 238bf6da - 03/09/2017 05:49 PM - Abel Coronado

Vm group (#213)

- Little change in style in role datatable

- Restyled labels in role-tab

History

#1 - 04/17/2010 10:50 AM - Gyula Csom

Of course the above is not a software bug, just a documentation issue. However I haven't found other issue type to put it under...

#2 - 04/17/2010 01:31 PM - Gyula Csom

The client would might be more robust if it detected the loaded libraries.
Something like this:

```
CloudClient.rb:
30: begin
31:   require 'net/http/post/multipart'
32:   MULTIPART_POST_LOADED = true
33: rescue LoadError
```

```
34:     MULTIPART_POST_LOADED = false
35: end
```

econe-upload:
```
114: raise LoadError, "either Curl/Curb or multipart-post must be installed" if (curb && !CURL_LOADED && !MULTIPART_POST_LOADED)
115: raise LoadError, "multipart-post must be installed" if (!curb && !MULTIPART_POST_LOADED)
116: rc = ec2_client.upload_image(image, curb)
```

#3 - 04/22/2010 03:15 PM - Ruben S. Montero

- Assignee set to Javi Fontan

- Target version set to Release 1.4.2

Thanks for the mixing pieces in the documentation. I think that we could also add the code to check the libraries in the client side, thanks for the patch!.

#4 - 07/01/2010 08:23 PM - Ruben S. Montero

- Status changed from New to Assigned

#5 - 07/01/2010 08:23 PM - Ruben S. Montero

- Target version changed from Release 1.4.2 to Release 2.0

#6 - 07/19/2010 06:58 PM - Ruben S. Montero

- Assignee changed from Javi Fontan to Daniel Molina

#7 - 07/20/2010 08:11 PM - Daniel Molina

- Status changed from Assigned to Closed

- % Done changed from 0 to 100