Description of problem:

If user set a value for "http_proxy" and then unset it. Satellite will set the http_proxy to "(empty string). This is causing all the outgoing http requests not using proxy including the outgoing traffic to Customer Portal. The katello "cdn_proxy" setting is ignored and Satellite will connect to the Customer Portal directly. Thus, manifest refresh fails.

In "/usr/share/foreman/lib/foreman/http_proxy.rb"

1. Answers if this request should be proxied
   def proxy_http_request?(current_proxy, request_host, schema)
       !http_proxy.nil? &&             <========== This is using ".nil?" which will return false for empty string. Suggest to use ".blank?" which
       current_proxy.nil? &&
       !request_host.nil? &&
       !http_proxy_host?(request_host) &&
       !local_request?(request_host)
   end

Steps to Reproduce:
1. http_proxy setting is nil in the beginning.

   echo "select id,name,value from settings where name = 'http_proxy'" | su postgres
c 'psql foreman'

<table>
<thead>
<tr>
<th>id</th>
<th>name</th>
<th>value</th>
</tr>
</thead>
<tbody>
<tr>
<td>108</td>
<td>http_proxy</td>
<td>--- ''</td>
</tr>
</tbody>
</table>

2. Go to the Setting page set the http_proxy to any url, such as http://proxy.example.com and save it.

   echo "select id,name,value from settings where name = 'http_proxy'" | su postgres
c 'psql foreman'

<table>
<thead>
<tr>
<th>id</th>
<th>name</th>
<th>value</th>
</tr>
</thead>
<tbody>
<tr>
<td>108</td>
<td>http_proxy</td>
<td>--- <a href="http://proxy.example.com">http://proxy.example.com</a></td>
</tr>
</tbody>
</table>

3. Still in the Setting page unset the http_proxy and save it.

   echo "select name,value from settings where name = 'http_proxy'" | su postgres
c 'psql foreman'

<table>
<thead>
<tr>
<th>name</th>
<th>value</th>
</tr>
</thead>
<tbody>
<tr>
<td>http_proxy</td>
<td>--- ''</td>
</tr>
</tbody>
</table>

4. Block your Satellite to connect to the Customer portal directly.

5. Set the cdn_proxy in etc/foreman/plugins/katello.yaml

7. Refresh Manifest and the Foreman task should fail with connection error.

8. Check the production.log, you should see something like.

```
[app] [I] Proxying request to subscription.rhsm.redhat.com via
```

Related issues:
- Related to Foreman - Bug #27293: Empty string setting value should be consistent - Rejected

Associated revisions
- Revision 8aeb29b2 - 07/15/2019 01:52 PM - Ondřej Ezr
  Fixes #6900 - expect http_proxy to be empty string (#6900)

History
- #1 - 07/13/2019 05:28 PM - Ondřej Ezr
  - Related to Bug #27293: Empty string setting value should be consistent added

- #2 - 07/14/2019 02:17 PM - The Foreman Bot
  - Assignee set to Ondřej Ezr
  - Status changed from New to Ready For Testing
  - Pull request https://github.com/theforeman/foreman/pull/6900 added

- #3 - 07/15/2019 01:53 PM - Marek Hulán
  - Subject changed from Cannot unset global http_proxy setting.
    to Cannot unset global http_proxy setting.
  - Fixed in Releases 1.23.0 added

- #4 - 07/15/2019 02:01 PM - Ondřej Ezr
  - Status changed from Ready For Testing to Closed

Applied in changeset 8aeb29b2a2a4ad3bd9767bd8124a47bb46a9aa02.