

Smart Proxy - Bug #27218

Foreman-proxy parses /etc/ipa/default.conf incorrectly which results in ERROR -- : Unknown realm my-realm-server.example.com even when all config files are OK

07/03/2019 06:20 AM - Adam Ruzicka

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:		
Target version:		
Difficulty:		Fixed in Releases: 1.24.0
Triaged:	No	Found in Releases:
Bugzilla link:	1726380	Red Hat JIRA:
Pull request:	https://github.com/theforeman/smart-proxy/pull/665	

Description

Cloned from https://bugzilla.redhat.com/show_bug.cgi?id=1726380

Description of problem:

Foreman-proxy parses the /etc/ipa/default.conf file incorrectly: it will consider *any* line containing the string 'realm' as a realm name definition. The last line in this file containing 'realm' will then be used as realm definition, most often resulting in this error on /var/log/foreman-proxy/proxy.log:

```
ERROR -- : Unknown realm EXAMPLE.COM
```

Example of an /etc/ipa/default.conf file that will trigger this error:

```
~~~  
[global]  
basedn = dc=example,dc=com  
domain = example.com  
server = realm.foo.example.com  
host = sat64a.foo.example.com  
xmlrpc_uri = https://realm.foo.example.com/ipa/xml  
enable_ra = True  
realm = EXAMPLE.COM
```

```
1. nice comment: this used to be realm = MY.OLD.DOMAIN.ORG
```

This file above will result in foreman-proxy considering the realm name to be MY.OLD.DOMAIN.ORG.

This is a result of poor config file parsing -- not really parsing but fetching values with the help of regexes -- in /usr/share/foreman-proxy/modules/realm_freeipa/ipa_config_parser.rb:

```
~~~  
38  
39 def do_parse(io)  
  
40   parsed_uri, realm_name = nil
```

41

```
43   if line = /xmlrpc_uri/
44     uri = line.split("=")[1].strip
45     parsed_uri = URI.parse(uri)
46     logger.debug "freeipa: uri is #{uri}"
47     elsif line =~ /realm/
48       realm_name = line.split("=")[1].strip
49       logger.debug "freeipa: realm #{realm_name}"
50     end
51   end
~~~
```

Lines 47 and 48 will regex-match any line containing the string 'realm', even if the matching string is one of these below:

```
thisisrealmagic =
not my realm =
```

Then, the realm name is extracted by getting the "right-hand" value of the same line.

An actual real-life example hitting this issue is when the IPA/IdM server name in `/etc/ipa/default.conf` contains the string `realm`, e.g.:

```
~~~
[global]

basedn = dc=demo1,dc=freeipa,dc=org

realm = DEMO1.FREEIPA.ORG

domain = demo1.freeipa.org

server = realm-server.demo1.freeipa.org
```

```
xmlrpc_uri = https://ipa.demo1.freeipa.org/ipa/xml
enable_ra = True
~~
```

Since the line with the `server` directive contains the string 'realm', it will match the regex and foreman-proxy will consider the right-hand side of this line as the realm name. Then `/var/log/foreman-proxy/proxy.log` would read the realm name twice:

```
~~
DEBUG -- : freeipa: uri is https://ipa.demo1.freeipa.org/ipa/xml

DEBUG -- : freeipa: realm DEMO1.FREEIPA.ORG

DEBUG -- : freeipa: realm realm-server.demo1.freeipa.org
```

~~~  
The latter one would overwrite the realm variable and would thus cause foreman-proxy to fail when adding a new host to the IPA/IdM domain, with:

```
~~
ERROR -- : Unknown realm realm-server.demo1.freeipa.org
```

#### Version-Release number of selected component (if applicable):

All currently released Satellite versions as of today contain this bug, as well as the upstream smart-proxy at [https://github.com/theforeman/smart-proxy/blob/develop/modules/realm\\_freeipa/ipa\\_config\\_parser.rb](https://github.com/theforeman/smart-proxy/blob/develop/modules/realm_freeipa/ipa_config_parser.rb).

#### How reproducible:

Every time if `/etc/ipa/default.conf` meets the required criteria.

#### Steps to Reproduce:

1. Set up foreman-proxy to communicate with IPA/IdM server `realm-server.example.com` for realm purposes.
2. Create a new host and set it up as a realm member.

#### Actual results:

Foreman-proxy will fail to add the host to the realm, stating it does not know the `realm-server.example.com` realm.

#### Expected results:

Foreman-proxy would add the host to the realm as set up by the 'realm' directive in `/etc/ipa/default.conf`

#### Additional info:

Simply reordering lines in `/etc/ipa/default.conf` so the `realm =` line is at the bottom of the file allows one to workaround the issue by forcing `ipa_config_parser.rb` to process the correct realm last.

#### Associated revisions

Fixes #27218: revamps regex for finding realm name

## History

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### #1 - 07/03/2019 08:46 AM - Adam Ruzicka

- Subject changed from *Foreman-proxy parses /etc/ipa/default.conf incorrectly which results in ERROR -- : Unknown realm my-realm-server.example.com even when all config files are OK* to *Foreman-proxy parses /etc/ipa/default.conf incorrectly which results in ERROR -- : Unknown realm my-realm-server.example.com even when all config files are OK*

- Assignee deleted (*Lukas Zapletal*)

- Pull request <https://github.com/theforeman/smart-proxy/pull/665> added

### #2 - 07/03/2019 08:47 AM - Adam Ruzicka

- Status changed from *New* to *Ready For Testing*

### #3 - 08/09/2019 12:34 PM - The Foreman Bot

- Fixed in Releases 1.24.0 added

### #4 - 08/09/2019 01:01 PM - Anonymous

- Status changed from *Ready For Testing* to *Closed*

Applied in changeset [c5248af8a482f244dc0dd31a464eeab2ac867e0a](#).