

## Foreman - Bug #105

### Operating Major version too short for AIX

12/01/2009 09:23 PM - Andrew Forgue

<b>Status:</b> Resolved	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Category:</b> Importers	
<b>Target version:</b>	
<b>Difficulty:</b>	<b>Fixed in Releases:</b>
<b>Triaged:</b>	<b>Found in Releases:</b>
<b>Bugzilla link:</b>	<b>Red Hat JIRA:</b>
<b>Pull request:</b>	

#### Description

The major column of the operating system is too short for AIX hosts. It's character varying(5), but facter reports '6100-04-01-0944' for OS major version.

```
puppet1:/srv/www/apps/foreman # rake puppet:migrate:populate_hosts RAILS_ENV=production
(in /srv/www/apps/foreman)
rake aborted!
```

```
PGError: ERROR: value too long for type character varying(5)
: INSERT INTO "operatingsystems" ("name", "created_at", "updated_at", "nameindicator", "major", "minor") VALUES(E'AIX', '2009-12-01 21:19:26.780600', '2009-12-01 21:19:26.780600', NULL, E'6100-04-01-0944', NULL) RETURNING "id"
```

#### Related issues:

Related to Foreman - Bug #799: AIX "operating system" info not appearing on "...

**Duplicate** 03/29/2011

Related to Foreman - Bug #4570: AIX Operating System version is shown in a st...

**Ready For Testing**

#### History

##### #1 - 12/02/2009 03:17 AM - Ohad Levy

- Target version set to 0.1-3

##### #2 - 12/04/2009 02:10 PM - Ohad Levy

- Status changed from New to Need more information

- Assignee changed from Ohad Levy to Andrew Forgue

what is an acceptable length? does this value make any sense to you or should it be ignored in AIX?

##### #3 - 12/04/2009 04:17 PM - Andrew Forgue

Hi Ohad,

The Version is broken down like this:

```
6100-04-01-0944
^   ^   ^   ^
|   |   |   + This is the year/week it was released, week 44 of 2009
|   |   + Service Pack (this is SP1)
|   + Technology Level (aka release #), in this case, TL 4
+ Major OS, in this case, this is AIX 6.1 (it'll be 5300, 5200, 5100)
```

IBM is a bit crazy about their versioning. Puppet reports the entire version string as major #, so maybe that should be fixed upstream in puppet?

I'd really rather have the major be "6", the minor be "1" and some other field for the TL and SP level. I don't know what that will gain me though -- I don't make decisions other than on the major and minor versions.

##### #4 - 12/05/2009 11:15 AM - Ohad Levy

Andrew Forgue wrote:

Hi Ohad,

The Version is broken down like this:

[...]

IBM is a bit crazy about their versioning. Puppet reports the entire version string as major #, so maybe that should be fixed upstream in puppet?

I'd really rather have the major be "6", the minor be "1" and some other field for the TL and SP level. I don't know what that will gain me though -- I don't make decisions other than on the major and minor versions.

so that means that:

major = first 4 chars (or everything until the first "-")

minor = value between 2nd and 3rd "-"

?

I think that it make sense to push it to facter, but I can easily work around it for the time being

can you provide me a facts yaml file? (usually on your puppetmaster at /var/lib/puppet/yaml/facts/hostname)

another question, is this info is correct for all AIX versions? only recent ones etc?

Thanks

#### #5 - 12/10/2009 07:32 AM - Ohad Levy

- Target version changed from 0.1-3 to 0.1-4

waiting for feedback, pushing a version for now

#### #6 - 01/06/2010 03:56 AM - Ohad Levy

- Target version deleted (0.1-4)

#### #7 - 01/09/2010 08:15 PM - Andrew Forgue

Yes, the major is the first 4 characters, but should be converted into "v<sup>0</sup>.v<sup>2</sup>" and discard the 00 (It'll always be 00). Then the next should be the "Technology Level" and then Service pack level. I don't much care about the SP level, I don't know if there's a direct mapping to anything in the schema. There didn't seem to be.

I'll attach a YAML file in a few hours.

#### #8 - 01/11/2010 09:32 PM - Andrew Forgue

I have no YAML files, I use storeconfigs. How can I get you what you want out of that?

#### #9 - 01/12/2010 01:51 AM - Ohad Levy

Andrew Forgue wrote:

I have no YAML files, I use storeconfigs. How can I get you what you want out of that?

/var/lib/puppet/yaml/facts on your puppetmaster?

#### #10 - 01/13/2010 08:31 PM - Andrew Forgue

No, no yaml files in there.

Here's a patch to format it:

```
diff --git a/app/models/host.rb b/app/models/host.rb
index 3d4a407..e2415c5 100644
--- a/app/models/host.rb
+++ b/app/models/host.rb
@@ -274,7 +274,13 @@ class Host < Puppet::Rails::Host
   os_name = fv(:operatingsystem)
   if ore1 = fv(:lsbdistrelease) || fv(:operatingsystemrelease)
-     major, minor = ore1.split(".")
+     if os_name == "AIX"
+       ver, tl, sp, week = ore1.split("-")
+       major = ver.split(//).join(".")

```

```

+     minor = [tl,sp].join(".")
+     else
+     major, minor = orel.split(".")
+     end
+     self.os = OperatingSystem.find_or_create_by_name_and_major_and_minor os_name, major, minor
+     end
+     # again we are saving without validations as input is required (e.g. partition tables)
diff --git a/app/models/operatingsystem.rb b/app/models/operatingsystem.rb
index b9994f0..f56951f 100644
--- a/app/models/operatingsystem.rb
+++ b/app/models/operatingsystem.rb
@@ -12,7 +12,11 @@ class OperatingSystem < ActiveRecord::Base

  # The OS is usually represented as the catenation of the OS and the revision. E.G. "Solaris 10"
  def to_label
-   "#{name} #{major}#{('.' + minor) unless minor.empty?}"
+   if name == "AIX"
+     "#{name} #{major}#{(" TL " + minor) unless minor.empty?}"
+   else
+     "#{name} #{major}#{('.' + minor) unless minor.empty?}"
+   end
  end

  def to_s

```

#### #11 - 07/05/2012 04:47 AM - Ohad Levy

Has facter been updated in the meanwhile? do we still have this issue with AIX?

thanks!

#### #12 - 11/12/2012 07:22 AM - Benjamin Papillon

Recently, I have the "chance" to get access to such a system. It seems that facter has been updated regarding this problem. Here is a small part of the result of facter 1.6.13 on AIX :

```

kernel => AIX
kernelmajversion => 6100
kernelrelease => 6100-06-05-1115
kernelversion => 6100
operatingsystem => AIX
operatingsystemrelease => 6100-06-05-1115
osfamily => AIX

```

Btw, the foreman used here in production (0.4.2) does not report the Operating system in the hosts page.

#### #13 - 06/18/2013 08:08 AM - Benjamin Papillon

- Status changed from Need more information to New
- Assignee deleted (Andrew Forgue)

#### #14 - 02/18/2014 10:41 AM - Benjamin Papillon

I upgraded my facter program to the last 1.7.5. The AIX output is exactly the same as the one I posted last year.

#### #15 - 03/06/2014 11:52 AM - Dominic Cleal

- Related to Bug #4570: AIX Operating System version is shown in a strange way. added

#### #16 - 02/29/2016 05:03 AM - Greg Sutcliffe

- Status changed from New to Resolved

This should no longer be an issue. In 1.11 (and probably earlier) the current code is:

```

elsif os_name[/AIX/i]
  majoraix, tlaix, spaix, _yearaix = orel.split("-")
  orel = majoraix + "." + tlaix + spaix

```

Given an input of "6100-06-05-1115" this should split to "6100.0605" which would hit this code:

```

major, minor = orel.split(".")

```

Giving a os\_major of "6100" which fits in the 5 char limit. Since the other AIX issue is tracked at [#4570](#) I'm going to close this. Please re-open if there's anything missing.