# Foreman - Bug #17520

# Puppet consumes excessive amounts of CPU and memory when importing facts from hosts with many NIC's (puppet\_fact\_parser.rb / Solaris)

11/29/2016 10:40 AM - Noh Wayh

Status:	New			
Priority:	Normal			
Assignee:				
Category:	Importers			
Target version:				
Difficulty:	medium	Fixed in Releases:		
Triaged:		Found in Releases: 1.14.0		
Bugzilla link:		Red Hat JIRA:		
Pull request:				
Description				
It seems that the fact import from hosts with many NICs (Solaris) causes the foreman processes to run amoc with CPU and RAM - all passenger instances consume 100% CPU and just grow in memory until the OS starts swapping. As a consequence foreman performs worse and gets even slower when importing and so on My suspicion is that it is the puppet_fact_parser.rb that might be at fault. Not sure if the CPU consumption is triggered for a single host with many NIC's or when many hosts with many nic's gets their facts imported in a short timeinterval.				
I will attach a facter json output from a host with many nics (there are hosts with 254 ip's, so fact output might be modified to match).				
Additional output - Passenger under httpd without any special tweaking done:				
passenger-memory-stats				
Passenger processes PID VMSize Private Name				
33114 2078.3 MB 837.3 MB Passenger RackApp: /usr/share/foreman 37420 1564.7 MB 798.4 MB Passenger RackApp: /usr/share/foreman 38605 6878.9 MB 4012.7 MB Passenger RackApp: /usr/share/foreman 41681 6045.9 MB 3801.0 MB Passenger RackApp: /usr/share/foreman 44608 5917.8 MB 3953.4 MB Passenger RackApp: /usr/share/foreman 52642 209.8 MB 0.0 MB PassengerWatchdog 52645 1338.9 MB 1.3 MB PassengerHelperAgent 52651 214.2 MB 0.0 MB PassengerLoggingAgent 57032 1116.3 MB 437.1 MB Passenger RackApp: /usr/share/foreman 1. Processes: 9 2. Total private dirty PSS: 13841 33 MB				
2. Total private dirty RSS: 13841.33 MB				

# History

### #1 - 11/29/2016 10:47 AM - Dominic Cleal

The production.log, preferably with SQL logging would be useful too please (<u>https://theforeman.org/manuals/1.13/index.html#7.2Debugging</u>) to help determine which part of the import is slow.

#### #3 - 01/23/2017 08:32 AM - Noh Wayh

Dominic Cleal wrote:

The production.log, preferably with SQL logging would be useful too please (<u>https://theforeman.org/manuals/1.13/index.html#7.2Debugging</u>) to help determine which part of the import is slow.

Do you have any tool for anonymising the production.log file from ip-adresses/hostnames in order to help out better?

#### #4 - 01/25/2017 07:23 AM - Noh Wayh

Edit:

Have a few hosts with ~970 virtual nics named e1000g0\_1 ..... e1000g0\_970 etc.. resulting in a couple of thousand facts needing to be looped through etc.

This might screw things up memorywise/cpuwise I presume, I believe using attached facts-file and modifying it appropriately might give some more info.

Also, all memory is now consumed on host and swap is heavily utilized - intermittently dropping when foreman processes are respawned.

#### #5 - 01/26/2017 03:35 AM - Marek Hulán

In environments like this I think it would be better to disable NICs parsing. Our UI wouldn't be probably usable with 1000 nics anyway. You can find this option at Administer -> Settings -> Provisioning -> Ignore Puppet facts for provisioning (set it to Yes). While this is not a fix, hopefully it's a workaround for you.

## #6 - 01/26/2017 08:03 AM - Noh Wayh

- File solaris10.json added
- File solaris10-2.json added

Dumped the foreman-instances memory which were consuming cycles and memory and observed that indeed the network-facts from the suspected hosts were everywhere.

The culprits were removed from foreman, with a subsequent restart of foreman. System Load dropped from 6 to 2 - memory usage went down to healthy levels and no SWAP observed.

Attaching culprits' facts (excluding any custom facts).

If you can use it to test and reproduce problem it would be great (try running the import of facts often to load the foreman instance). Unfortunately I can not add production.log due to it's massive size and non-anonymized data.

#### Files

facter-solaris10-manynics.json	33.6 KB	11/29/2016	Noh Wayh
solaris10.json	160 KB	01/26/2017	Noh Wayh
solaris10-2.json	158 KB	01/26/2017	Noh Wayh