

## Foreman - Bug #10651

### Excessive failed unlink calls to /usr/share/foreman/tmp/cache

05/29/2015 08:26 AM - Paul Arnold

<b>Status:</b>	Resolved	
<b>Priority:</b>	Normal	
<b>Assignee:</b>		
<b>Category:</b>	Rails	
<b>Target version:</b>		
<b>Difficulty:</b>		<b>Fixed in Releases:</b>
<b>Triaged:</b>		<b>Found in Releases:</b> 1.8.1
<b>Bugzilla link:</b>		<b>Red Hat JIRA:</b>
<b>Pull request:</b>		
<b>Description</b>		
<p>We have a stringent requirement for audit logging, and Foreman has been producing a lot of failed unlink events, such as:</p>		
<pre>[root@xxxx ~]# ausearch -a 2193623 -i ---- node=xxxxx type=PATH msg=audit(05/27/2015 00:23:00.557:2193623) : item=0 name=/usr/share/foreman/tmp/cache/ inode=261691 dev=08:05 mode=dir,750 ouid=foreman ogid=foreman rdev=00:00 obj=unconfined_u:object_r:foreman_var_run_t:s0 nametype=PARENT node=xxxxx type=CWD msg=audit(05/27/2015 00:23:00.557:2193623) : cwd=/usr/share/foreman node=xxxxx type=SYSCALL msg=audit(05/27/2015 00:23:00.557:2193623) : arch=x86_64 syscall=unlink success=no exit=-2(No such file or directory) a0=0x7f3aff591b00 a1=0x7f3afd034578 a2=0x0 a3=0x1c08 items=1 ppid=1 pid=25198 auid=xxxxx uid=foreman gid=foreman euid=foreman suid=foreman fsuid=foreman egid=foreman sgid=foreman fsgid=foreman tty=(none) ses=1301 comm=ruby exe=/opt/rh/ruby193/root/usr/bin/ruby subj=unconfined_u:system_r:httpd_t:s0 key=delete</pre>		
<p>We can work around this by excluding this comm on this directory for the time-being, but it really is producing a lot of events:</p>		
<pre>[root@xxxx ~]# ausearch -i -m SYSCALL -sc unlink -sv no -c ruby -f '/usr/share/foreman/tmp/cache/' -ui foreman -ts yesterday   grep -c 'type=SYSCALL' 217690</pre>		
<p>('ausearch' has a ton of options: this is interpret syscall messages, only unlinks, only failures, only from ruby, only in the cache path, only from user foreman, only yesterday)</p>		
<p>For reference, the entirety of failed SYSCALLs yesterday:</p>		
<pre>[root@xxxx ~]# ausearch -i -m SYSCALL -sv no -ts yesterday   grep -c 'type=SYSCALL' 252182</pre>		
<p>Some system info:</p>		
<pre>[root@xxxx ~]# rpm -qa   grep -i foreman   sort foreman-1.8.1-1.el6.noarch foreman-cli-1.8.1-1.el6.noarch foreman-debug-1.8.1-1.el6.noarch foreman-postgresql-1.8.1-1.el6.noarch foreman-proxy-1.8.1-1.el6.noarch foreman-release-1.8.1-1.el6.noarch foreman-selinux-1.8.1-1.el6.noarch ruby193-rubygem-foreman_openscap-0.4.0-1.el6.noarch ruby193-rubygem-foreman_setup-2.1.1-1.el6.noarch ruby193-rubygem-puppetdb_foreman-0.1.2-1.el6.noarch rubygem-hammer_cli_foreman-0.2.0-1.el6.noarch [root@xxxx ~]# cat /etc/redhat-release &amp;&amp; uname -r Red Hat Enterprise Linux Server release 6.6 (Santiago) 2.6.32-504.16.2.el6.x86_64</pre>		
<p>Using Apache+Passenger: Apache/2.2.15 (Unix) DAV/2 mod_nss/2.2.15 NSS/3.15.1 Basic ECC Phusion_Passenger/5.0.6 configured</p>		

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## History

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### #1 - 05/29/2015 08:43 AM - Dominic Cleal

- *Category set to Rails*

It's likely that the cause of this is in Rails, either how the cache implementation is written or in some Rails component that uses the cache heavily. Foreman itself only uses it a bit, and only deletes entries on a couple of pages (assuming that unlink is from a Rails.cache.delete call).

You might find behaviour changes as we change Rails versions (e.g. Rails 4 in the next couple of versions) or you could even swap the cache to something like memcached with [https://github.com/theforeman/foreman\\_memcache](https://github.com/theforeman/foreman_memcache).

### #2 - 05/20/2017 06:24 AM - Anonymous

- *Status changed from New to Resolved*

should hopefully be better with rails 4.2