

Arvados - Bug #6304

[API] Fix config file race condition and improve test cases for DNS update hooks

06/10/2015 08:44 PM - Tom Clegg

Status:	Resolved	Start date:	05/23/2015
Priority:	Normal	Due date:	
Assigned To:	Lucas Di Pentima	% Done:	100%
Category:	API	Estimated time:	0.00 hour
Target version:	2017-04-12 sprint		
Description			
Node.dns_server_update() in source:services/api/app/models/node.rb is currently vulnerable to the following race (fixable by using a tempfile library):			
<ul style="list-style-type: none">• Request handler A writes hostname.conf.tmp.• Request handler B opens hostname.conf.tmp for writing.• Request handler A issues the move command.			
Catch only the expected exceptions on the various write and update operations (IOError and SystemCallError?), not unexpected ones.			
Subtasks:			
Task # 6246: Add test case for dns configs			Closed
Task # 6245: Improve race and exception handling in dns updates			Closed
Task # 11382: Review 6304-dns-update-fix			Resolved

Associated revisions

Revision be2a34c5 - 04/11/2017 01:33 PM - Lucas Di Pentima

Merge branch '6304-dns-update-fix'
Closes #6304

History

#1 - 06/10/2015 08:50 PM - Tom Clegg

- Description updated

#2 - 03/10/2017 10:13 PM - Tom Clegg

- Description updated

#3 - 03/21/2017 06:57 PM - Tom Morris

- Target version changed from Arvados Future Sprints to 2017-04-12 sprint

#4 - 03/29/2017 07:35 PM - Lucas Di Pentima

- Assigned To set to Lucas Di Pentima

#5 - 03/31/2017 06:08 PM - Lucas Di Pentima

- Status changed from New to In Progress

#6 - 04/05/2017 05:30 PM - Lucas Di Pentima

Updates at branch 6304-dns-update-fix - [6da9f3666](https://github.com/Arvados/arvados/commit/6da9f3666)
Test run: <https://ci.curoverse.com/job/developer-run-tests/220/>

#7 - 04/06/2017 02:42 PM - Tom Clegg

An ensure block should delete the stray temp file if we got as far as creating one (e.g., if f.puts fails). Something like this?

```
tmpfile = nil
begin
  ...
  Tempfile.open(...) do |f|
    tmpfile = f.path
  end
end
```

```
f.puts ...
end
File.rename tmpfile, hostfile
tmpfile = nil
rescue ...
...
ensure
  if tmpfile
    File.unlink tmpfile
  end
end
end
```

It seems that the new "dns update with dir configured but no command configured" test actually tests "dns_server_update is a no-op when dns_server_conf_template is not set".

#8 - 04/06/2017 04:58 PM - Tom Clegg

- *Description updated*

#9 - 04/10/2017 04:53 PM - Lucas Di Pentima

Updates at [2f46fb576](#)

Ensure dangling temp files are cleaned up.
Pending: test case for this is not working properly. Tom will give it a look.

#10 - 04/10/2017 06:02 PM - Lucas Di Pentima

Updates at [f08a738f1565b2dabde28dc9e8d1bad9622d5529](#)
Test run: <https://ci.curoverse.com/job/developer-run-tests/225/>

As per Tom's suggestion, added the server_dns_template_conf setting so the test can pass, thanks Tom!
Added - char as a separator between the compute node's name and the rest of the temp file, to improve temp file name readability.

#11 - 04/10/2017 09:02 PM - Tom Clegg

nit: prefer "assert_empty foo" to "assert foo.empty?" so the failure message says what unexpected stuff was found instead of just "false is not true".

LGTM, thanks!

#12 - 04/11/2017 01:35 PM - Lucas Di Pentima

- *Status changed from In Progress to Resolved*

- *% Done changed from 0 to 100*

Applied in changeset [arvados|commit:be2a34c57eab7cc184c08ec1059554cb97911276](#).