

FreeNAS - Bug #75532

Mail aliases with recursive references break sendmail

02/16/2019 04:37 PM - Luis Oliveira

Status: Done	
Priority: No priority	
Assignee: Waqar Ahmed	
Category: Middleware	
Target version: Master - FreeNAS Nightlies	
Seen in: 11.2-RELEASE	Needs Merging: No
Severity: New	Needs Automation: No
Reason for Closing:	Support Suite Ticket: n/a
Reason for Blocked:	Hardware Configuration:
Needs QA: No	ChangeLog Required: No
Needs Doc: No	

Description

When an e-mail alias in /etc/aliases has a circular reference, e.g. `user: user`, the script /etc/find_alias_for_smtplib.py gets stuck and using 100%-ish CPU in a while loop.

This may happen when a user is created with the e-mail field set to the same value as the username. (And then you spend some hours debugging :)

Only affects e-mails if they are sent using sendmail.

Replicate:

1. Edit /etc/aliases and add:

```
test: test
```

2. Try send e-mail:

```
sendmail root << EOF
Test
EOF
```

Effect: Does not exit, or send the e-mail.

Possible solution:

1. Throw error, and let the user fix it:

```
--- find_alias_for_smtplib.old 2019-02-16 16:17:53.411873917 -0800
+++ find_alias_for_smtplib.py 2019-02-16 16:22:40.039208948 -0800
@@ -106,6 +106,9 @@
     doround = False
     for key, val in aliases.items():
         if val in aliases:
+             if aliases[key] == aliases[val]:
+                 syslog.syslog('Found a recursive dependency in /etc/aliases.')
+                 raise ValueError('Found a recursive dependency in /etc/aliases.')
                 aliases[key] = aliases[val]
                 doround = True
     return aliases
```

Pro: The user will know. Con: E-mails will not be sent.

2. Ignore:

```
--- find_alias_for_smtp lib. old 2019-02-16 16:17:53.411873917 -0800
+++ find_alias_for_smtp lib. py 2019-02-16 16:30:24.776847110 -0800
@@ -106,8 +106,11 @@
     doround = False
     for key, val in aliases.items():
         if val in aliases:
-             aliases[key] = aliases[val]
-             doround = True
+             if aliases[key] == aliases[val]:
+                 syslog.syslog('Warning: Found a recursive dependency in /etc/aliases.')
+             else:
+                 aliases[key] = aliases[val]
+                 doround = True
     return aliases
```

Pro: E-mails will be sent (for other aliases/e-mails). Con: Users may not detect the issue.

Related issues:

Copied to FreeNAS - Bug #75991: Fix recursive dependency for mail aliases

Done

Associated revisions

Revision 1ee916f7 - 02/19/2019 09:07 AM - Waqar Ahmed

Fix recursive dependency for aliases

This commit fixes a recursive dependency for aliases which resulted in an infinite loop.
Ticket: #75532

Revision 4699ad75 - 02/19/2019 07:46 PM - Waqar Ahmed

Fix recursive dependency for aliases

This commit fixes a recursive dependency for aliases which resulted in an infinite loop.
Ticket: #75532

(cherry picked from commit 1ee916f7009ee771d9abe4f8be99cd189ed4ccd6)

History

#1 - 02/17/2019 03:54 PM - Dru Lavigne

- Category changed from OS to Middleware
- Assignee changed from Release Council to William Grzybowski

#2 - 02/18/2019 09:43 AM - William Grzybowski

- Assignee changed from William Grzybowski to Waqar Ahmed
- Target version changed from Backlog to 11.2-U3

#3 - 02/19/2019 05:38 AM - Waqar Ahmed

- Status changed from *Unscreened* to *In Progress*

#4 - 02/19/2019 07:46 PM - Bug Clerk

- Status changed from *In Progress* to *Ready for Testing*

11.3 PR: <https://github.com/freenas/freenas/pull/2585>

#5 - 02/19/2019 07:46 PM - Bug Clerk

- Target version changed from *11.2-U3* to *11.3-BETA1*

#6 - 02/19/2019 07:46 PM - Bug Clerk

- Copied to Bug #75991: *Fix recursive dependency for mail aliases* added

#7 - 02/20/2019 08:54 AM - Dru Lavigne

- Status changed from *Ready for Testing* to *Done*

- Target version changed from *11.3-BETA1* to *Master - FreeNAS Nightlies*

- Needs QA changed from *Yes* to *No*

- Needs Doc changed from *Yes* to *No*

- Needs Merging changed from *Yes* to *No*