

pfSense - Bug #7469

local_sync_accounts() slowness can trigger GUI/XMLRPC failures with many accounts

04/12/2017 11:17 AM - Jim Pingle

Status:	Resolved	Start date:	04/12/2017
Priority:	High	Due date:	
Assignee:	Renato Botelho	% Done:	100%
Category:	User manager	Estimated time:	0.00 hour
Target version:	2.4.3	Affected Architecture:	
Affected Version:	All		

Description

When a firewall has many local accounts, the time it takes for local_sync_accounts() to finish grows large enough to trigger timeouts and other problems for XMLRPC.

Notably, in an HA cluster this becomes a burden because that function is called for each filter sync.

On stand-alone firewalls the function is only called during bootup, so it does not have quite the same impact in that scenario, though it still delays the boot process.

To illustrate the issue I made a playback script that calls local_sync_accounts() and nothing else:

```
: grep -c '<user>' /conf/config.xml
44
: time pfSsh.php playback localsyncusers
1.379u 5.649s 1:17.53 9.0% 633+216k 0+16190io 0pf+0w
```

For 44 accounts this particular test firewall needed 1 min 17 seconds to complete the sync process. This could easily overrun PHP/XMLRPC timeouts depending on the speed of the firewall cpu/disks/etc.

We have at least one customer hitting the issue (16693), plus at least one user report (<https://forum.pfsense.org/index.php?topic=127546.0>)

Associated revisions

Revision 79f7bc7f - 02/14/2018 10:28 AM - Renato Botelho

Fix #7469

- Rename local_sync_accounts() to local_reset_accounts() and keep it only being used /etc/rc.bootup
- Reimplement local_sync_accounts() receiving a list of users and groups to be added and/or deleted
- Remove call to filter_configure xmlrpc method from rc.filter_synchronize since it's now called internally from restore_config_section.
- On restore_config_section implementation stop copying all content from user/group sections. Instead check for new/modified/deleted items and create necessary arrays to be passed to local_syng_accounts
- Add a parameter to filter_configure xmlrpc method to decide when to call a full reset of users/groups using local_reset_accounts()

Revision dc3bc1f8 - 02/16/2018 10:42 AM - Renato Botelho

Fix #7469

Sort users / groups alphabetically on config.xml

History

#1 - 04/21/2017 01:37 PM - Renato Botelho

- Target version changed from 2.4.0 to 2.4.1

Pushing to 2.4.1 because the whole function should be changed to be optimized

#2 - 10/12/2017 09:48 AM - Jim Pingle

- Target version changed from 2.4.1 to 2.4.2

Moving target to 2.4.2 as we need 2.4.1 sooner than anticipated.

#3 - 11/16/2017 08:39 AM - Renato Botelho

- Target version changed from 2.4.2 to 2.4.3

#4 - 02/14/2018 10:50 AM - Renato Botelho

- Status changed from Confirmed to Feedback

- % Done changed from 0 to 100

Applied in changeset [79f7bc7f61a9026cca8770d60d27cde15dd6f26a](#).

#5 - 02/15/2018 01:36 PM - Jim Pingle

- Status changed from Feedback to Assigned

Current code is better but is not putting the users back into matching order on both units. Renato is working on an improvement to preserve the order on all nodes.

#6 - 02/16/2018 10:50 AM - Renato Botelho

- Status changed from Assigned to Feedback

Applied in changeset [dc3bc1f8c9f5040762953b38df499ea5f86d13d5](#).

#7 - 02/16/2018 10:10 PM - Paighton Bisconer

Tested on Current Base System 2.4.3.a.20180216.1415

Syncing 106 users and adding a 107th took maybe two seconds, new user was there when secondary users page was reloaded immediately after saving new user.

#8 - 02/19/2018 01:26 PM - Renato Botelho

- Status changed from Feedback to Resolved