

## pfSense - Bug #6012

### Groups with spaces in names not handled correctly in group file

03/19/2016 12:14 AM - Chris Buechler

<b>Status:</b>	Resolved	<b>Start date:</b>	03/19/2016
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Chris Buechler	<b>% Done:</b>	100%
<b>Category:</b>	User Manager / Privileges	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2.3	<b>Affected Architecture:</b>	
<b>Affected Version:</b>	All		

**Description**

Group names that contain spaces are added to the group file with only the last word of the group name. So if you have, say, "My Users" and "VPN Users", you end up with just "Users" in the group file.

In 2.2.x, you have multiple groups with the same name. In 2.3 it's handled more sane, in that you won't end up with a conflicting group name, but only end up with one of the conflicting groups in the group file.

This causes a serious problem on upgrade to 2.3 where there are conflicts because pw in FreeBSD 10.3 ends up stuck in a never-ending loop when trying to modify a user in one of the affected groups. Then local\_sync\_users function in rc.bootup never finishes, which leaves the bootup incomplete.

Need to:

- 1) prohibit spaces in group names, since they go straight into the group file
- 2) add config upgrade code to replace spaces in group names with \_ to avoid problems

#### Associated revisions

**Revision 78d168ce - 03/19/2016 07:50 AM - Steve Beaver**

Partially fixed #6012 by removing space from chars allowed in group names

**Revision b76cc978 - 03/19/2016 08:56 AM - Steve Beaver**

Fixed #6012

Config upgrade function replaces space with underscore in group names

**Revision e5ef7ae2 - 03/19/2016 04:16 PM - Chris Buechler**

Save changes to config in 148 config upgrade. Ticket #6012

**Revision d3f3b75f - 03/20/2016 12:16 AM - Chris Buechler**

If there was a group with a space, delete all the user-defined groups before hitting local\_sync\_accounts so pw doesn't get hung up. Ticket #6012

**Revision f788b1e2 - 03/29/2016 01:21 PM - Chris Buechler**

Rather than renaming groups with spaces, mark their scope as remote. Ticket #6012

**Revision 792adb45 - 03/29/2016 01:23 PM - Chris Buechler**

Don't modify the group file for scope remote. Ticket #6012

#### History

**#1 - 03/19/2016 07:52 AM - Steve Beaver**

Space removed from chars allowed in group name

**#2 - 03/19/2016 08:00 AM - Steve Beaver**

- Status changed from Confirmed to Feedback

- % Done changed from 0 to 100

Applied in changeset [78d168ceccff8a45da76df2a8487d0f1b1910779](#).

### #3 - 03/19/2016 08:59 AM - Steve Beaver

Config upgrade function added to replace spaces with underscores in group names

This has been tested from the cmd line, but not as part of a real upgrade.

### #4 - 03/19/2016 04:25 PM - Chris Buechler

- Status changed from Feedback to Resolved

fixed after e5ef7ae26b32d18b7aa1a117605ccbbfafefca14

### #5 - 03/19/2016 05:28 PM - Chris Buechler

- Status changed from Resolved to Feedback

- Assignee set to Chris Buechler

still need to verify in the 2.2.x->2.3 upgrade situation once that makes it to a snapshot.

### #6 - 03/20/2016 12:18 AM - Chris Buechler

That wasn't enough to prevent the problem post-upgrade as pw hits the never-ending loop when modifying users before it gets to fixing the groups. Fix for that pushed.

### #7 - 03/21/2016 04:20 PM - Chris Buechler

- Status changed from Feedback to Resolved

post-upgrade fixed too.

### #8 - 03/24/2016 11:10 AM - Jim Pingle

Changing the group names with spaces to underscores breaks some working setups that relied on the groups to match external authentication sources such as LDAP (e.g. "Domain Admins" group in AD), without caring how it was handled at the OS level. We might want to consider changing the group matching code for LDAP/RADIUS to treat the underscores the same as spaces to avoid breaking too many setups.

### #9 - 03/24/2016 03:56 PM - Jim Pingle

- Status changed from Resolved to New

Kicking this back open due to the problem above.

I'm tempted to make the LDAP/RADIUS group check both `_` and `'` when testing remote groups, but there is a small chance that would allow something it shouldn't if someone had two groups, one "Group\_Name" and one "Group Name" but with different permissions, which seems like it might be sufficiently rare/inadvisable to not care about.

Line 1517 of `src/etc/inc/auth.inc` could be changed to this, which works:

```
if (in_array($group['name'], $allowed_groups) || in_array(str_replace("_", " ", $group['name']), $allowed_groups)) {
```

I have a test setup available if needed.

**#10 - 03/29/2016 01:08 AM - Chris Buechler**

We already have <scope> on groups for system groups. It'd be best to extend that to user-defined groups so they're configurable as Local or Remote. That scope needs to be forced static for system groups.

**#11 - 03/29/2016 04:23 PM - Chris Buechler**

*- Status changed from New to Resolved*

All good. Group scope "remote" is omitted from /etc/group, group names containing spaces are config upgraded to remote rather than renamed, and the input validation changed accordingly.