

FreeNAS - Bug #23439

ZFS VFS objects are optional

04/18/2017 07:52 AM - Chris Stankevitz

Status: Resolved	
Priority: Nice to have	
Assignee: John Hixson	
Category: OS	
Target version: 11.1-BETA1	
Seen in: 9.10.2-U2	Needs Merging: Yes
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: Yes	
Description	
I set "share type" to unix on a particular filesystem. smb4.conf is still created with "vfs objects = zfsacl" I expect/desire zfsacl to be disabled for the share pointing to this file system.	
Related issues:	
Related to FreeNAS - Bug #26994: Add zfs_space and zfsacl as default modules ...	Done 12/03/2017 02/12/2018

Associated revisions

Revision fd84b413 - 04/20/2017 04:15 AM - John Hixson

ZFS VFS objects are now optional

Ticket: #23439

History

#1 - 04/18/2017 08:06 AM - Bonnie Follweiler

- Assignee set to Kris Moore

#2 - 04/18/2017 08:08 AM - Kris Moore

- Category changed from 39 to 57

- Assignee changed from Kris Moore to John Hixson

- Target version set to 9.10.4

John, this safe/wise to do?

#3 - 04/18/2017 09:46 AM - Chris Stankevitz

A little background: I use unison for bi-directional sync on FreeBSD. Unison does not sync ACLs. So I do not use zfsacl on those shares. I'm trying to use FreeNAS to accomplish similar on another system. I would like to prevent Windows users changing the ACLs on my 'unix' filesystem -- because those ACLs will not replicate which could lockout users.

I'll paste my smb4.conf below.

Also, I'm curious what technically happens due to setting a filesystem's "share type" to unix/windows/etc.

```
[global]
  interfaces = 10.10.0.22
```

```
disable netbios = yes
security = ads
realm = FOO.LOCAL
workgroup = FOO
idmap config *: backend = tdb
idmap config *: range = 90000001-100000000
idmap config FOO: backend = rid
idmap config FOO: range = 20000-90000000
winbind enum users = yes
winbind enum groups = yes
log file = /var/log/samba4/log.foo
log level = 1
store dos attributes = yes
local master = no
directory name cache size = 0
domain master = no
preferred master = no
syslog = 0
```

```
# Work around samba inotify/kqueue bug -- see pcbsd bug 4728, samba bug 11063, serverfault 683623
kernel change notify = no
```

[Projects]

```
path = /agpl/projects
veto files = /.snapshot/.windows/.mac/.zfs/Thumbs.db/
writeable = yes
browseable = yes
vfs objects = full_audit
full_audit:prefix = %u|%I|%m|%S
full_audit:success = open pwrite
full_audit:failure = open pwrite
full_audit:facility = local7
full_audit:priority = NOTICE
oplocks = no
create mask = 0770
force create mode = 660
directory mask = 0770
force directory mode = 770
strict allocate = yes
hide unreadable = yes
```

#4 - 04/18/2017 01:43 PM - an odos

Samba will only interpret the last "vfs objects" line in a share definition. This means that if you set, for example, the auxiliary parameter "vfs objects = streams_xattr full_audit", then "zfsacl" will no longer be enabled. Do note however that some VFS objects are sensitive about ordering. Try to replicate what you see in FreeNAS under /usr/local/etc/smb4.conf

Setting the share type to "windows" changes the dataset's aclmode property to "restricted". This protects it from having an inerrant chmod break ACLs. On "unix" datasets the aclmode is set to "passthrough".

#5 - 04/18/2017 09:43 PM - John Hixson

- Status changed from Unscreened to Screened
- Priority changed from No priority to Nice to have

Kris Moore wrote:

John, this safe/wise to do?

It's safe. Wise? depends on user case ;-) Honestly, I'm not happy about the VFS objects that are automatically added when on a ZFS filesystem either. I would like the default to be to add them, but to be removable if not wanted (in cases like this). Currently, other than adding to auxiliary parameters to override the entire VFS objects line, there is no way to do this.

#6 - 04/19/2017 06:19 AM - an odos

John Hixson wrote:

Kris Moore wrote:

John, this safe/wise to do?

It's safe. Wise? depends on user case ;-) Honestly, I'm not happy about the VFS objects that are automatically added when on a ZFS filesystem either. I would like the default to be to add them, but to be removable if not wanted (in cases like this). Currently, other than adding to auxiliary parameters to override the entire VFS objects line, there is no way to do this.

What about checking the aclmode for the dataset being shared? If it's set to "restricted", then add "zfsacl". Otherwise don't add it. I can't really think of a reason why someone would have a "windows" dataset without wanting to use zfsacl, and we all know that "zfsacl" + "passthrough" is kinda borken.

#7 - 04/19/2017 07:57 AM - Kris Moore

- Target version changed from 9.10.4 to 11.1

#8 - 04/20/2017 04:49 AM - John Hixson

I've done the work to make ZFS VFS objects optional. They are added by default on new shares, but can be removed. This has exposed another issue, however. You can't remove all VFS objects and have an empty list. This is desirable behavior as well, so I will dig into this as well.

#9 - 05/09/2017 11:49 AM - John Hixson

- Status changed from Screened to Resolved

#10 - 05/25/2017 11:28 AM - Chris Stankevitz

Thanks for your help guys!

#11 - 09/01/2017 10:47 AM - Dru Lavigne

- Subject changed from samba vfs zfsacl still enabled for "unix" shares to Don't set zfsacl vfs module by default

#12 - 09/26/2017 10:38 AM - Dru Lavigne

- Target version changed from 11.1 to 11.1-BETA1

#13 - 10/10/2017 07:24 AM - Dru Lavigne

- Subject changed from Don't set zfsacl vfs module by default to ZFS VFS objects are optional

#14 - 11/09/2017 08:56 AM - Joe Maloney

- Needs QA changed from Yes to No

- QA Status Test Passes FreeNAS added

- QA Status deleted (Not Tested)

#15 - 02/11/2018 07:37 AM - Timur Bakeyev

- Related to Bug #26994: Add zfs_space and zfsacl as default modules to VFS objects added