

FreeNAS - Bug #30813

Make SNMP indexes 1-based as described in RFC 2578

03/27/2018 10:24 AM - Chris Hamer

Status: Done	
Priority: No priority	
Assignee: Vladimir Vinogradenko	
Category: OS	
Target version: 11.2-BETA1	
Seen in: 11.1-U2	Needs Merging: No
Severity: Medium	Needs Automation: No
Reason for Closing:	Support Suite Ticket: n/a
Reason for Blocked:	Hardware Configuration: CPU: Intel(R) Xeon(R) CPU E3-1220L V2 @ 2.30GHz RAM: 16311MB (ECC) HP Microserver Gen8 2 x 4TB western digital NAS Red Drives
Needs QA: No	ChangeLog Required: No
Needs Doc: No	

Description

The MIB zpoolindex seems to be incorrect as I can't snmpwalk the first index '0' which is my main zpool.

Running:
snmpwalk -v 2c -c MyCommunity 172.16.80.80 FREENAS-MIB::zpoolDescr

Reveals my zpools:
FREENAS-MIB::zpoolDescr.0 = STRING: OneDrive
FREENAS-MIB::zpoolDescr.1 = STRING: freenas-boot

Running:
snmpwalk -v 2c -c MyCommunity 172.16.80.80 FREENAS-MIB::zpoolDescr.0

Results in a index out of range error.
FREENAS-MIB::zpoolDescr.0: Unknown Object Identifier (Index out of range: 0 (zpoolIndex))

Within the FREENAS-MIB.txt file:

```
zpoolIndex OBJECT-TYPE
SYNTAX Integer32 (1..2147483647)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
""
 ::= { zpoolEntry 1 }
```

Changing "Integer32 (1..2147483647)" to "Integer32 (0..2147483647)" fixes the problem.

Associated revisions

Revision e575d221 - 03/28/2018 02:56 AM - Vladimir Vinogradenko

fix(snmp): Make SNMP indexes 1-based as described in RFC 2578 section 7.7

Ticket: #30813

History

#1 - 03/27/2018 11:40 AM - Dru Lavigne

- Assignee changed from Release Council to Vladimir Vinogradenko
- Target version set to 11.2-RC2

#2 - 03/29/2018 12:17 AM - Vladimir Vinogradenko

- Status changed from Unscreened to Not Started

#3 - 03/29/2018 12:17 AM - Vladimir Vinogradenko

- Status changed from Not Started to In Progress

#4 - 03/29/2018 12:17 AM - Vladimir Vinogradenko

- Status changed from In Progress to Done

#5 - 03/29/2018 03:42 AM - Dru Lavigne

- Subject changed from SNMP Index out of range to Make SNMP indexes 1-based as described in RFC 2578
- Target version changed from 11.2-RC2 to 11.2-BETA1
- Needs Doc changed from Yes to No
- Needs Merging changed from Yes to No

Master PR: <https://github.com/freenas/freenas/pull/1035>

#6 - 05/02/2018 05:42 AM - Dru Lavigne

- Status changed from Done to Ready for Testing

#7 - 06/21/2018 12:38 PM - Nick Wolff

- Status changed from Ready for Testing to Passed Testing

Fixed

```
root@fncertified:~ # snmpwalk -v2c -c public 127.0.0.1 FREENAS-MIB::zpoolDescr
FREENAS-MIB::zpoolDescr.1 = STRING: freenas-boot
FREENAS-MIB::zpoolDescr.2 = STRING: tank
root@fncertified:~ # snmpwalk -v2c -c public 127.0.0.1 FREENAS-MIB::zpoolDescr.1
FREENAS-MIB::zpoolDescr.1 = STRING: freenas-boot
root@fncertified:~ # snmpwalk -v2c -c public 127.0.0.1 FREENAS-MIB::zpoolDescr.1
```

#8 - 06/21/2018 12:40 PM - Dru Lavigne

- Status changed from Passed Testing to Done
- Needs QA changed from Yes to No