

snmpwalk 5.9 Cheatsheet (ingenieriainformatica.uniovi.es)

Tool to discover flaws when using the SNMP protocol

<http://www.net-snmp.org/>



```
$ snmpwalk -v 2c -c public localhost
iso.3.6.1.2.1.1.1.0 = STRING: "Linux pofut1 4.10.0-37-generic #41-Ubuntu S
iso.3.6.1.2.1.1.2.0 = OID: iso.3.6.1.4.1.8072.3.2.10
iso.3.6.1.2.1.1.3.0 = Timeticks: (20220) 0:03:22.20
iso.3.6.1.2.1.1.4.0 = STRING: "me@pofut.com"
iso.3.6.1.2.1.1.5.0 = STRING: "pofut1"
iso.3.6.1.2.1.1.6.0 = STRING: "InPofut"
iso.3.6.1.2.1.1.7.0 = INTEGER: 72
iso.3.6.1.2.1.1.8.0 = Timeticks: (0) 0:00:00.00
iso.3.6.1.2.1.1.9.1.2.1 = OID: iso.3.6.1.6.3.11.3.1.1
iso.3.6.1.2.1.1.9.1.2.2 = OID: iso.3.6.1.6.3.15.2.1.1
iso.3.6.1.2.1.1.9.1.2.3 = OID: iso.3.6.1.6.3.10.3.1.1
iso.3.6.1.2.1.1.9.1.2.4 = OID: iso.3.6.1.6.3.1
iso.3.6.1.2.1.1.9.1.2.5 = OID: iso.3.6.1.6.3.16.2.2.1
iso.3.6.1.2.1.1.9.1.2.6 = OID: iso.3.6.1.2.1.49
iso.3.6.1.2.1.1.9.1.2.7 = OID: iso.3.6.1.2.1.4
iso.3.6.1.2.1.1.9.1.2.8 = OID: iso.3.6.1.2.1.50
iso.3.6.1.2.1.1.9.1.2.9 = OID: iso.3.6.1.6.3.13.3.1.3
iso.3.6.1.2.1.1.9.1.2.10 = OID: iso.3.6.1.2.1.92
iso.3.6.1.2.1.1.9.1.3.1 = STRING: "The MIB for Message Processing and Dispe
iso.3.6.1.2.1.1.9.1.3.2 = STRING: "The management information definitions f
"
```

GENERAL USAGE

snmpwalk [OPTIONS] AGENT [OID]

NOTES

Be sure to understand the various entities handled by this protocol to properly understand how to use this tool

OPTIONS

- c COMMUNITY: set the community string
- h, --help: display this help message
- H: display configuration file directives understood
- v 1|2c|3: specifies SNMP version to use
- V, --version: display package version number (SNMP Version 1 or 2c specific)

SNMP Version 3 specific

- A PASSPHRASE: set authentication protocol pass phrase
- a PROTOCOL: set authentication protocol (MD5|SHA|SHA-224|SHA-256|SHA-384|SHA-512)
- E ENGINE-ID: set context engine ID (e.g. 800000020109840301)
- e ENGINE-ID: set security engine ID (e.g. 800000020109840301)
- l LEVEL: set security level (noAuthNoPriv|authNoPriv|authPriv)
- n CONTEXT: set context name (e.g. bridge1)
- u USER-NAME: set security name (e.g. bert)
- X PASSPHRASE: set privacy protocol pass phrase
- x PROTOCOL: set privacy protocol (DES|AES)
- Z BOOTS,TIME: set destination engine boots/time

General communication options

- r RETRIES: set the number of retries
- t TIMEOUT: set the request timeout (in seconds)

Debugging

- d: dump input/output packets in hexadecimal
- D[TOKEN[,...]]: turn on debugging output for the specified TOKENs (ALL gives extremely verbose debugging output)

General options (I)

- C APPOPTS: Set various application specific behaviours:
 - p: print the number of variables found
 - i: include given OID in the search range
 - I: don't include the given OID, even if no results are returned

General options (II)

-L LOGOPTS: Toggle various defaults controlling logging:

- e: log to standard error
- o: log to standard output
- n: don't log at all
- f file: log to the specified file
- s facility: log to syslog (via the specified facility)

(variants)

[EON] pri: log to standard error, output or /dev/null for level 'pri' and above

[EON] p1-p2: log to standard error, output or /dev/null for levels 'p1' to 'p2'

[FS] pri token: log to file/syslog for level 'pri' and above

[FS] p1-p2 token: log to file/syslog for levels 'p1' to 'p2'

-O OUTOPTS: Toggle various defaults controlling output display:

- 0: print leading 0 for single-digit hex characters
- a: print all strings in ascii format
- b: do not break OID indexes down
- e: print enums numerically
- E: escape quotes in string indices
- f: print full OIDs on output
- n: print OIDs numerically
- p PRECISION: display floating point values with specified PRECISION (printf format string)

q: quick print for easier parsing

Q: quick print with equal-signs

s: print only last symbolic element of OID

S: print MIB module-id plus last element

t: print timeticks unparsed as numeric integers

T: print human-readable text along with hex strings

c: do not check returned OIDs are increasing t: Display wall-clock time to complete the walk T: Display wall-clock time to complete each request E {OID}: End the walk at the specified OID	u: print OIDs using UCD-style prefix suppression U: don't print units v: print values only (not OID = value) x: print all strings in hex format X: extended index format
-I INOPTS: Toggle various defaults controlling input parsing: b: do best/regex matching to find a MIB node h: don't apply DISPLAY-HINTs r: do not check values for range/type legality R: do random access to OID labels u: top-level OIDs must have '.' prefix (UCD-style) s SUFFIX: Append all textual OIDs with SUFFIX before parsing S PREFIX: Prepend all textual OIDs with PREFIX before parsing	-P MIBOPTS: Toggle various defaults controlling MIB parsing: u: allow the use of underlines in MIB symbols c: disallow the use of "--" to terminate comments d: save the DESCRIPTIONs of the MIB objects e: disable errors when MIB symbols conflict w: enable warnings when MIB symbols conflict W: enable detailed warnings when MIB symbols conflict R: replace MIB symbols from latest module
-m MIB[:...]: load given list of MIBs (ALL loads everything) -M DIR[:...]: look in given list of directories for MIBs (default: <user home>/.snmp/mibs:/usr/share/snmp/mibs:/usr/share/snmp/mibs/iana:/usr/share/snmp/mibs/ietf)	EXAMPLES <i>snmpwalk -v 2c -c public 192.168.56.10</i>

by José Manuel Redondo López