

GILAT

NGNMS – AUTOMATED TESTING



Usage examples for: wptest.py | Vitalie Ghelbert - Moldova

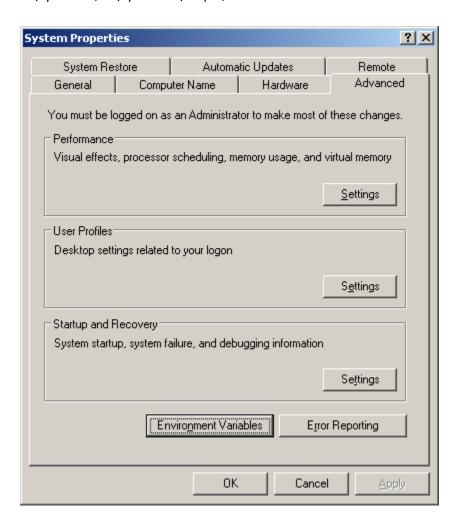
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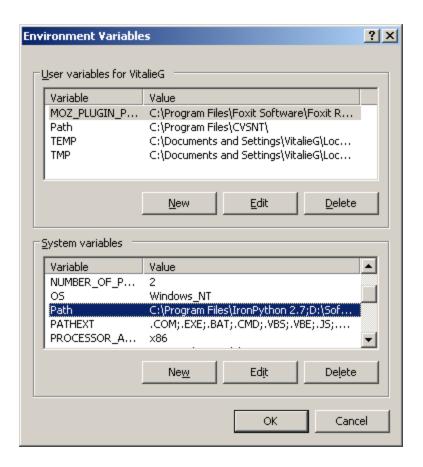
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Instalation

- install python 2.7.3:
 - o 32 bit: http://python.org/ftp/python/2.7.3/python-2.7.3.msi
 - o 64 bit: http://python.org/ftp/python/2.7.3/python-2.7.3.amd64.msi
- install pycurl 32bit or 64 bit http://www.lfd.uci.edu/~gohlke/pythonlibs/#pycurl
- install setuptools: https://pypi.python.org/packages/2.7/s/setuptools/setuptools-0.6c11.win32-py2.7.exe#md5=57e1e64f6b7c7f1d2eddfc9746bbaf20

Add python path to PATH variable: C:\Python27; C:\Python27\Scripts;





Select PATH variable and press Edit:



Copy and Paste C:\Python27; C:\Python27\Scripts; and press OK. Note: don't miss (;) at the end!

Install xlrd, xlwt, xlutils

C:\Documents and Settings\VitalieG\git\ngnms>easy_install xlrd

Searching for xlrd Best match: xlrd 0.9.0

Processing xlrd-0.9.0-py2.7.egg

xlrd 0.9.0 is already the active version in easy-install.pth Installing runxlrd.py script to C:\Python27\Scripts

Using c:\python27\lib\site-packages\xlrd-0.9.0-py2.7.egg Processing dependencies for xlrd

C:\Documents and Settings\VitalieG\git\ngnms>easy_install xlwt

Searching for xlwt Best match: xlwt 0.7.4

Processing xlwt-0.7.4-py2.7.egg

xlwt 0.7.4 is already the active version in easy-install.pth

Using c:\python27\lib\site-packages\xlwt-0.7.4-py2.7.egg

Processing dependencies for xlwt

Finished processing dependencies for xlwt

C:\Documents and Settings\VitalieG\git\ngnms>easy_install xlutils

Searching for xlutils

Best match: xlutils 1.5.2

Processing xlutils-1.5.2-py2.7.egg

xlutils 1.5.2 is already the active version in easy-install.pth Installing margins-script.py script to C:\Python27\Scripts

Installing margins.exe script to C:\Python27\Scripts

Installing margins.exe.manifest script to C:\Python27\Scripts

Using c:\python27\lib\site-packages\xlutils-1.5.2-py2.7.egg

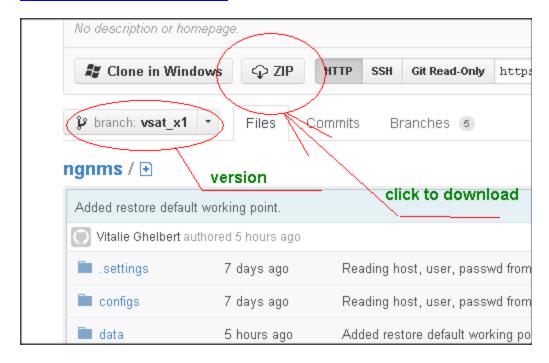
Processing dependencies for xlutils

Finished processing dependencies for xlutils

Getting ngnms testing tool.

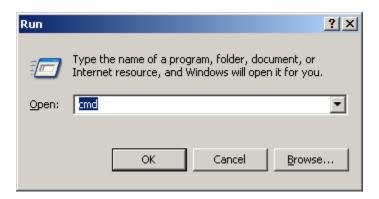
Download and unzip:

https://github.com/gvitalie/ngnms



Usage examples

Open cmd to unzipped folder:



Show help

C:\Documents and Settings\VitalieG\git\ngnms>wptest.py --help Usage: wptest.py [options] Copyright 2013 Gilat Options: --version show program's version number and exit -h, --help show this help message and exit -c DEVICE, --check=DEVICE check [hub, vsat]'s status. -n NAME, --name=NAME vsat name to check. -s INFO, --show=INFO show [all, hub, vsat, test]'s info. -d, --disabled show disabled rows only. -i INFILE, --in-file=INFILE testcases input file [default: data/demo.xls] -o OUTFILE, --out-file=OUTFILE save result to file [default: data/output.xls] run one or [default:enabled] test cases -r, --run wptest.py - read and run test cases from excel file.

Show active vsat's

- wptest.py --show vsat
- wptest.py --show vsat --disabled

C:\Documents and Settings\VitalieG\git\ngnms>wptest.py --show vsat

INFO: Excel file data/demo.xls!

VSAT: ENABLED

VSAT : V1 : ENABLED

Active = x Name = V1

Console IP = 192.168.140.76 Console PORT = 1010

Console PORT = 1010
Connection timeout = 10
Number of tries = 3
Tries timeout = 10

C:\Documents and Settings\VitalieG\git\ngnms>wptest.py --show vsat --disabled ______ INFO: Excel file data/demo.xls! ______ DISABLED **VSAT: DISABLED** VSAT: V2: DISABLED _____ Active Console IP = V2 Console PORT = 192.168.140.76 = 1016 Connection timeout = 3 = 10 Tries timeout = 10 VSAT: V3: DISABLED -----Active Console IP = V3 Console PORT = 192.168.140.76 = 101 Connection timeout = 10 = 3 Number of tries Tries timeout = 10

Show one particular vsat

VSAT: V9 VSAT: V10

• wptest.py --show vsat --name V4

C:\Documents and Settings\VitalieG\git\ngnms>wptest.py --show vsat --name V4 ______ INFO: Excel file data/demo.xls! _____ **ENABLED VSAT: ENABLED** VSAT: V1 DISABLED **VSAT: DISABLED** VSAT: V2 VSAT: V3 VSAT : V4 : DISABLED Active Name = V4 Console IP = 10.111.35.6 Console PORT = 1004 Connection timeout = 10 = 3 Number of tries Tries timeout = 10 VSAT: V5

Show hub configuration

- wptest.py --show hub
- wptest.py --show hub --disabled

C:\Documents and Settings\VitalieG\git\ngnms>wptest.py --show hub _____ INFO: Excel file data/demo.xls! **ENABLED HUB: ENABLED** HUB: NS_3: ENABLED Active = x Name = NS 3

Type = NS URL

= https://172.20.255.1

User = rnd

Password = 6DTR2ZHGS6MQQ

C:\Documents and Settings\VitalieG\git\ngnms>wptest.py --show hub --disabled ______ INFO: Excel file data/demo.xls! ______ DISABLED **HUB: DISABLED** HUB: NS 3: DISABLED Active Name = NS 3 Type = NS URL = https://ngnms-server/ = admin User Password = manager

Checking vsat

- wptest.py --check vsat
- wptest.py --check vsat --name V2

```
C:\Documents and Settings\VitalieG\git\ngnms>wptest.py --check vsat
_____
  INFO: Excel file data/demo.xls!
_____
ENABLED
-- V1 : ENABLED --
      = x
Active
Name = V1
Console IP = 192.168.140.76
Console PORT = 1010
Connection timeout = 10
Number of tries = 3
Tries timeout = 10
step:\> Checking connection ...
status: -> SUCCESS!
step:\> Checking link status!
status: Total Backbone Links UP = 1
status: ->Link UP!
```

```
C:\Documents and Settings\VitalieG\git\ngnms>wptest.py --check vsat --name V1
_____
 INFO: Excel file data/demo.xls!
______
FNABLFD
-- V1 : ENABLED --
 _____
Active
     = x
Name
     = V1
Console IP = 192.168.140.76
Console PORT = 1010
Connection timeout = 10
Number of tries = 3
Tries timeout = 10
step:\> Checking connection ...
status: -> SUCCESS!
step:\> Checking link status!
status: Total Backbone Links UP = 1
status: ->Link UP!
______
 INFO: Excel file data/demo.xls!
______
DISABLED
VSAT: V2
VSAT: V3
VSAT: V4
VSAT: V5
VSAT: V9
VSAT: V10
```

Checking hub

• wptest.py --check hub

Run one particular test

• wptest.py --run --name 1

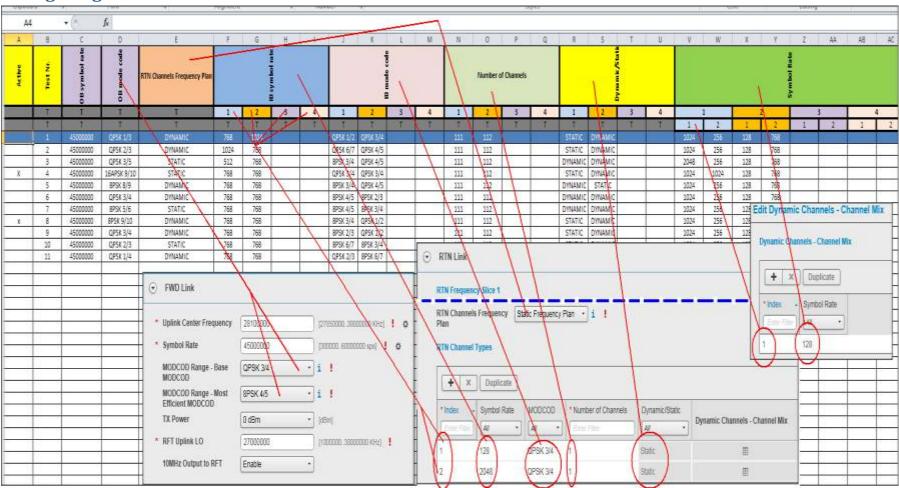
Run all active test cases

• wptest.py --run

Note: to run all disabled tests use --disabled option.

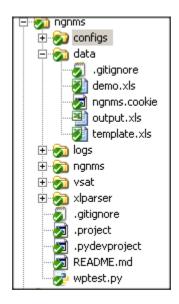
• wptest.py --run --disabled

Configuring TESTCASES



By default, you could use demo.xls file from data directory.

Hint: Make a copy before changing demo.xls file.



You can specify witch input file to use with -i option and where to store data with -o option:

wptest.py -i data/demo.xls -o data/output.xls --run --name 4

that will read test cases from [data/demo.xls] file, and store to [data/output.xls] file.

NOTE: by default, if no -i and -o options provided, [data/demo.xls] and [data/output.xls] are used.

Data from output.xls file after running test

	AG	AH	Al	AJ	AK	AL	AM
ition	Max OB bit rate	Max IB bit rate	VSAT CPU	Number of transmitted OB packets	Number of received IB packets	Number of OB retransmit packets	Number of IB retransmit packets
	S	S	S	S	S	S	S
	0	0	[8]/[9]	0	0	0	0

Configuring HUB.

А	В	С	D	E	F
Active	Name	Туре	URL	User	Password
Х	NS_3	NS	https://172.20.255.1	rnd	6DTR2ZHGS6MQQ
	NS_3	NS	https://ngnms-server/	admin	manager
	HSP1	HSP			
	HSP2	HSP			

Active: just one line should be active.

Name: fill here network segment name

Type: optional

URL: ngnms link

User: ngnms user

Password: ngnms password

Configuring VSAT.

1 A	В	С	D	E	F	G
Active	Name	Console IP	Console PORT	Connection timeout	Number of tries	Tries timeout
x	V1	192.168.140.76	1010	10	3	10
	V2	192.168.140.76	1016	10	3	10
	V3	192.168.140.76	101	10	3	10
	V4	10.111.35.6	1004	10	3	10
	V5	10.111.35.7	1005	10	3	10
	V 9	10.111.35.8	1009	10	3	10
	V10	10.111.35.9	1010	10	3	10

Active: just one line should be active.

Name: fill correct Vsat name.

Console IP: telnet ip connection

Console Port: telnet port connection

Connection timeout: time until timeout

Number of tries: how many tries to check until link UP.

Tries timeout: time between each try if vsat has link DOWN.