Linux Configuration Collector

Config 2 HTML (cfg2html)

by Gratien D'haese

gratien.dhaese@it3.be
http://www.it3.be



Who am I ?

- Independent UNIX Consultant
- Over 25 years of experience with UNIX (using Linux since Dec 1991 version 0.1)
- Open source projects involved:
  - Relax-and-Recover
  - WBEMextras (towards HP-UX HPSIM clients)
  - Upgrade-UX
  - Ad-hoc Copy and Run (adhocr)
  - Make CD-ROM Recovery (dev on hold)





Gratien D'haese

gdha

IT3 Consultants
Belgium
gratien.dhaese@gmail.com
http://www.it3.be
Joined on Jul 01, 2011

3 followers **20** starred **6** following

Organizations

Contributions | Repositories | Public Activity | Edit Your Profile

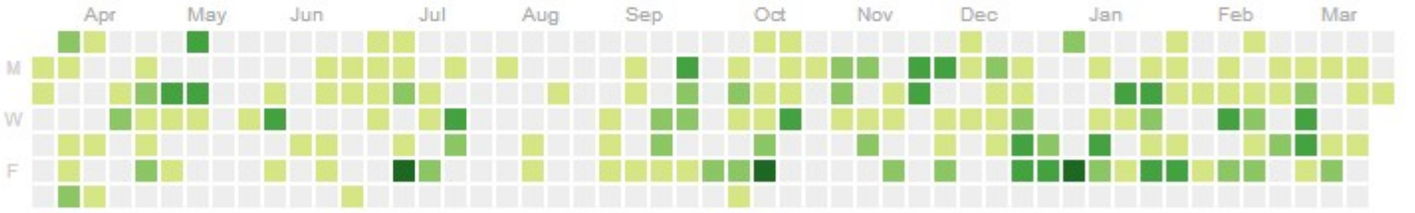
Popular repositories

- **adhocr** — Adhocr is tool to run commands on mul... — 1 ★
- **sgesap_validation** — HP Serviceguard (SAP extensions) pac... — 0 ★
- **SANmigration** — SANmigration scripts for HP-UX — 0 ★
- **www.it3.be** — 0 ★
- **dupro** — Dummy Project Framework (for Korn Sh... — 0 ★

Repositories contributed to

- rear/**rear** — Relax-and-Recover - Linux bare metal d... — 47 ★
- cfg2html/**cfg2html** — Cfg2html is a UNIX shell script similar t... — 13 ★
- rear/**rear.github.com** — Relax-and-Recover website — 10 ★
- WBEMextras/**WBEMextras** — Simplify Deployment of HPSIM Insight R... — 5 ★

Your Contributions



Summary of Pull Requests, issues opened and commits. Learn more.

Less More

408 Total	5 days	0 days
Mar 25 2013 - Mar 25 2014	April 22 - April 26	Rock - Hard Place
Year of Contributions	Longest Streak	Current Streak



cfg2html

Cfg2html (or Config to HTML) project

URL: http://www.cfg2html.com/

Main author: *Ralph Roth*

co-developer ***Gratien D'haese***

(for HP-UX and Linux)



What is cfg2html?

- A UNIX shell script (or collection of) to gather all kind of system information and combine these into one big ASCII and HTML file
- See it as a complete set of system documentation of an UNIX system
- Various versions are available for Linux, HP-UX, Solaris, AIX, Brocade switches
- Useful for sysadmins, support teams and in case of disasters
- License GPLv3

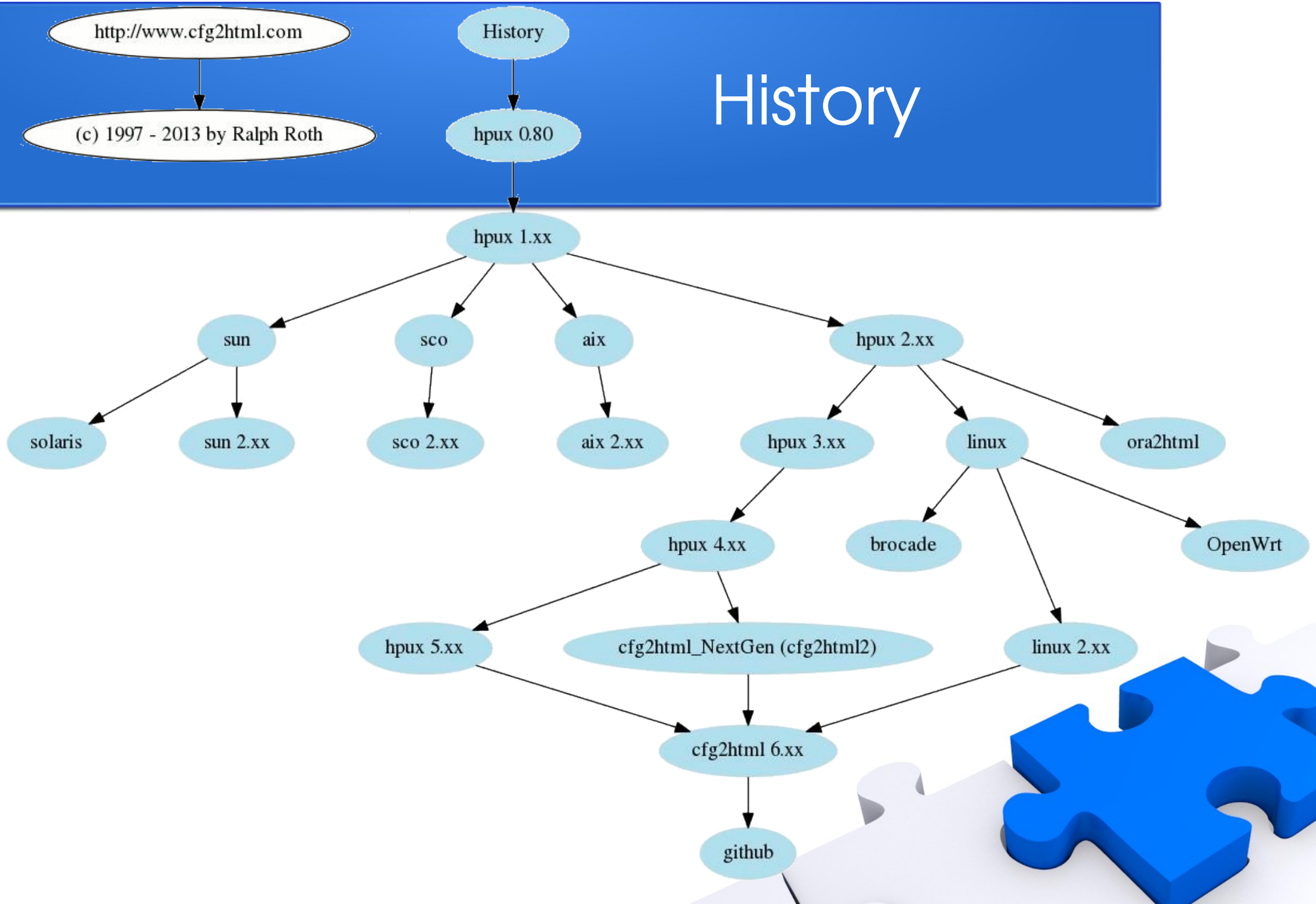


History

- For consulting and troubleshooting Ralph Roth wrote around 1997 HP-UX shell scripts (NFS, LVM etc.) that customers could execute and mail back the results
- In 1998 the cfg2html engine was developed. On February 1st. 1999 the HP-UX version 0.80 was initially released to the public.
- From the 1.xx HP-UX stream (2001) all other *NIX derivates were split off and ported.



History


http://www.cfg2html.com
(c) 1997 - 2013 by Ralph Roth
History
hpux 0.80
hpux 1.xx
sun
sco
aix
hpux 2.xx
solaris
sun 2.xx
sco 2.xx
aix 2.xx
hpux 3.xx
linux
ora2html
hpux 4.xx
brocade
OpenWrt
hpux 5.xx
cfg2html_NextGen (cfg2html2)
linux 2.xx
cfg2html 6.xx
github

Countries that use cfg2html

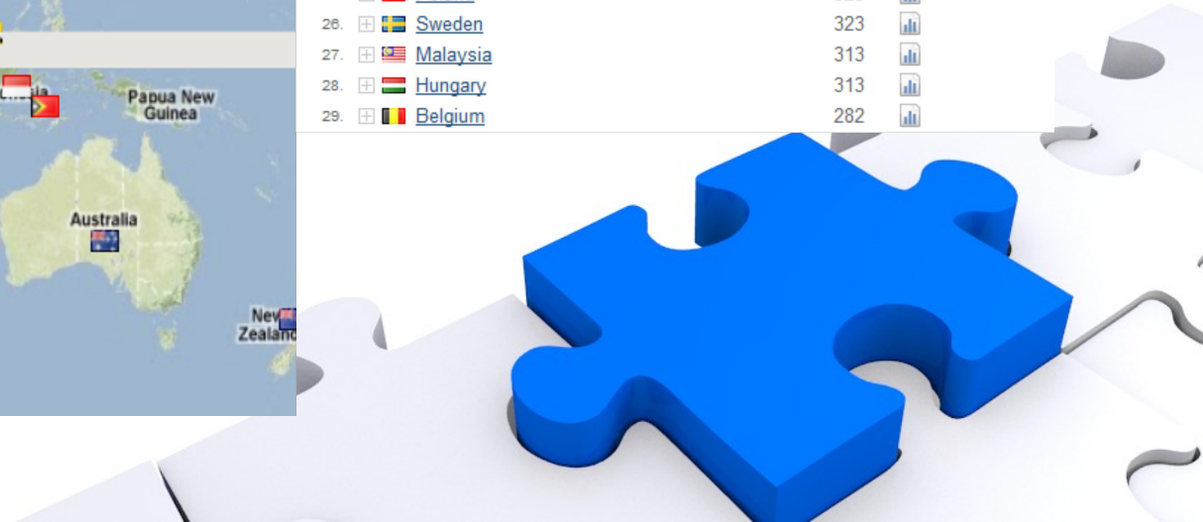


166 different countries have visited this site. 228 flags collected.

Newest Region: Prince Edward Island, Canada Collect more regions with Flag Cou

Showing countries 1 - 50 of 166.
Page: 1 2 3 4 >

	Country	Unique Visitors
1.	United States	10,534
2.	Germany	6,745
3.	France	2,428
4.	India	2,227
5.	United Kingdom	2,074
6.	Brazil	1,599
7.	China	1,478
8.	Netherlands	1,258
9.	Spain	1,175
10.	South Korea	1,113
11.	Canada	1,079
12.	Russia	977
13.	Australia	888
14.	Switzerland	680
15.	Italy	642
16.	Czech Republic	613
17.	Japan	527
18.	Mexico	521
19.	Portugal	503
20.	Singapore	462
21.	Taiwan	435
22.	Indonesia	419
23.	Austria	364
24.	Argentina	340
25.	Poland	323
26.	Sweden	323
27.	Malaysia	313
28.	Hungary	313
29.	Belgium	282



Similar tools as cfg2html available?

- System Configuration Collector (snapshots)
- Linux-Explorer (LINUXexplo)
- Dconf
- Operations Acceptance Testing Linux servers



System Configuration Collector

- System Configuration Collector (SCC) collects configuration data of systems in snapshots
- The structure of the snapshot allows SCC to compare a snapshot with the previous one and to detect changes in the configuration
- The snapshot and the logbook are converted to HTML for local inspection
- Support for various UNIX and Linux distro's
- Download from http://scc.qnh.eu/
- Main author: Siem Korteweg



Linux-Explorer (LINUXexplo)

- Linux Explorer (LINUXexplo) is a script that collects software and hardware information about a linux server for support purposes, similar to the Solaris explorer (SUNWexplo)
- Creates a gzipped tar archive
- Is more a support tool for Responce Center Engineers
- http://www.unix-consultants.co.uk/examples/scripts/linux/linux-explorer/
- Main author: Joe Santoro



Dconf

- Dconf is a tool to collect a system's hardware and software configuration.
- It allows to take your system configuration with you or compare systems (like nodes in a cluster) to troubleshoot HW or SW problems.
- Linux only
- Not up-to-date with current distro's
- http://dag.wiee.rs/home-made/dconf/
- Main Author: Dag Wieers



Operations Acceptance Testing Linux servers

- Linux-check-oat.pl
- Basic Operations Acceptance Testing for Linux servers
- Results are displayed on stdout or redirected to a file
- Intended as Evidence document for new systems
- http://www.circlingcycle.com.au/Unix-sources/Unix-scripts.html
- Main Author: Dusan Baljevic



Pro-active vs. Reactive

- Reactive support tools to ease vendor assistance
  - SuSe: supportconfig
  - RHEL: sosreport
  - HP-UX: getsysinfo.sh
  - AIX: zsnap
  - SunOS: SUN explorer
  - Linux: open source tools :
    - Linux explorer
    - Dconf
    - Cfg2html
    - Others?? (tell me)



Pro-active vs. Reactive (cont.)

- Pro-active support tools to ease systen admin headaches
  - SCC (system configuration collector)
    - collect to a central point via rcp, scp, ftp, nfs and make it available via httpd to browse, compare snapshots
  - Cfg2html
    - collection of all your systems configuration on a central point (e.g. NFS share)
    - Contrib/cfg2html_admin_jobs.sh => make web pages of complete collection; and keep monthtly overview per system
  - Dconf
    - Unzipped snapshots can be compared



Where to get cfg2html?

- http://www.cfg2html.com
  - Main web site
- http://groups.yahoo.com/group/cfg2html/
  - Download area for new and older releases
  - Mailing list archives
- https://github.com/cfg2html/cfg2html
  - Main development for version 6.x
  - Issues tracker



Install the sources

- Tar balls of Linux version 2.* are available from https://groups.yahoo.com/neo/groups/cfg2html/files/linux/
- GitHub Sources version 6.* (HP-UX and Linux):
  git clone git@github.com:cfg2html/cfg2html.git
- Generate Linux RPM, DEB or HP-UX software depot from github sources is easy:
  - $ make



Install the cfg2html repository

- sudo rpm -ivh cfg2html-6.21-1.git201404020432.fc19.noarch.rpm
- During make of rpm a cron entry will be generated as

```
== Make a cron file ==
echo "$((RANDOM % 55)) $((RANDOM % 5)) * * $((RANDOM % 5))
root /usr/sbin/cfg2html -2\%Y\%m\%d > /dev/null 2>&1" \> ../cfg2html.cron
```

- cat /etc/cron.d/cfg2html
  29 3 * * 0 root /usr/sbin/cfg2html -2\%Y\%m\%d > /dev/null 2>&1



How to use cfg2html?

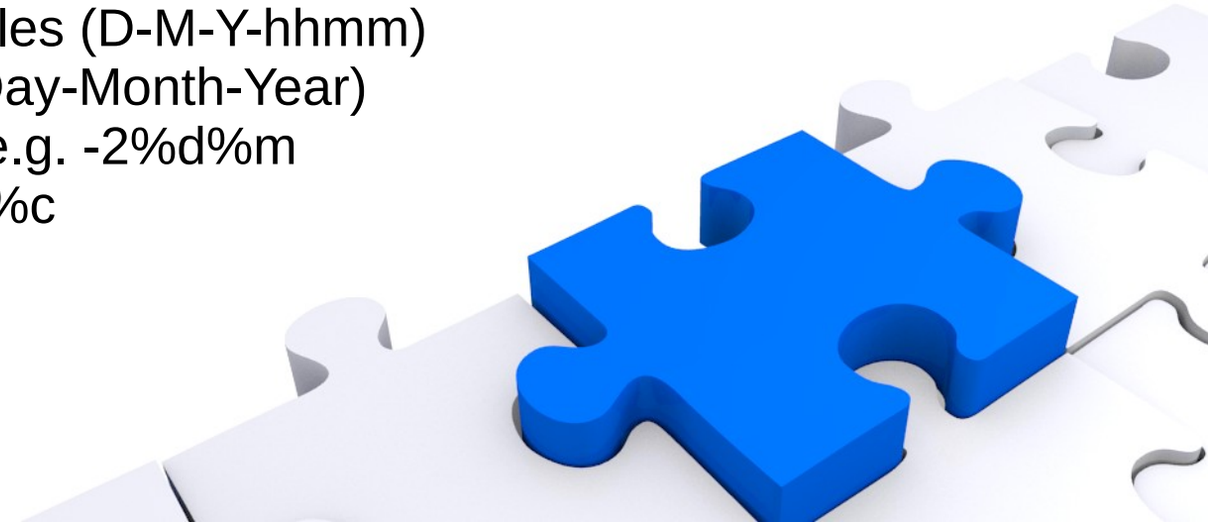
- Usage: sudo cfg2html -h
- Run it: sudo cfg2html
  - You can run it from source tree, or
  - You can run it from RPM, DEB binary (Linux obviously)
    - @OBS - http://download.opensuse.org/repositories/home:/gdha/
    - Main script: /usr/sbin/cfg2html
    - Collector scripts: /usr/share/cfg2html/...
    - Configuration: /etc/cfg2html/local.conf, /usr/share/cfg2html/conf/default.conf



cfg2html help

```
$ sudo ./cfg2html -h
cfg2html-linux version 6.21
WARNING, use this script AT YOUR OWN RISK

    Usage: cfg2html [OPTIONS]
    creates a HTML and plain ASCII host documentation
    Output modifier:
    -o      set directory to write or use the environment
            variable OUTDIR="/path/to/dir" (directory must exist)
    -0      append the current date+time to the output files (D-M-Y-hhmm)
    -1      append the current date to the output files (Day-Month-Year)
    -2 arg  like option -1, you can use date +modifier, e.g. -2%d%m
          DO NOT use spaces for the filename, e.g. -2%c
```



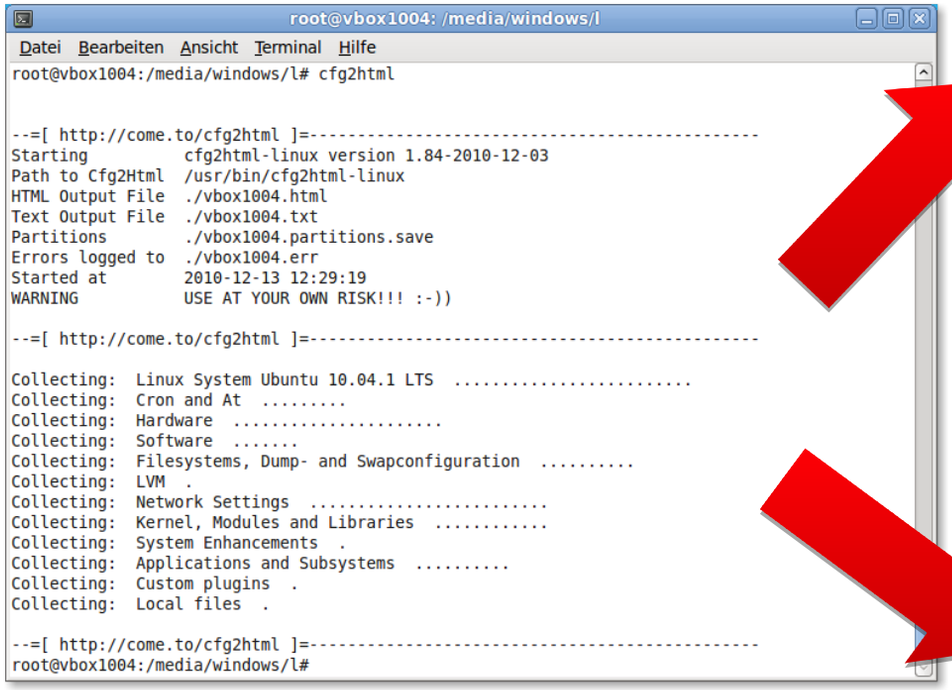
cfg2html help (cont.)

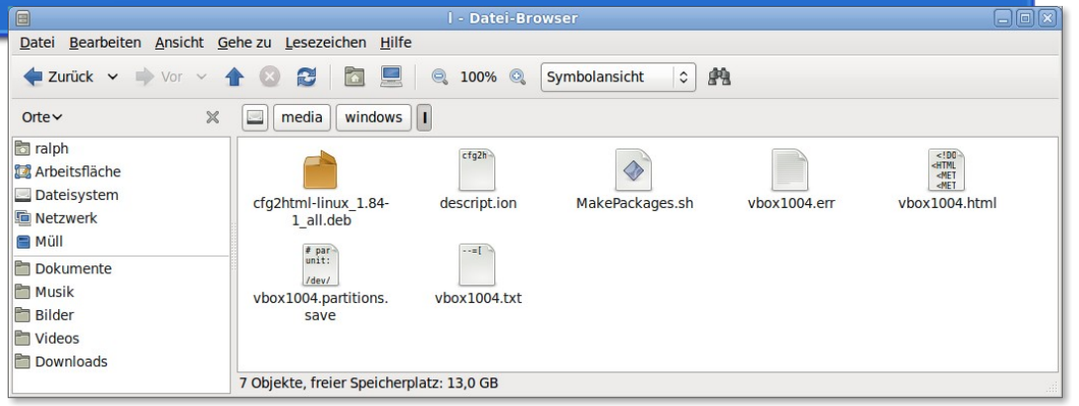
Help:
-v output version information and exit
-h display this help and exit

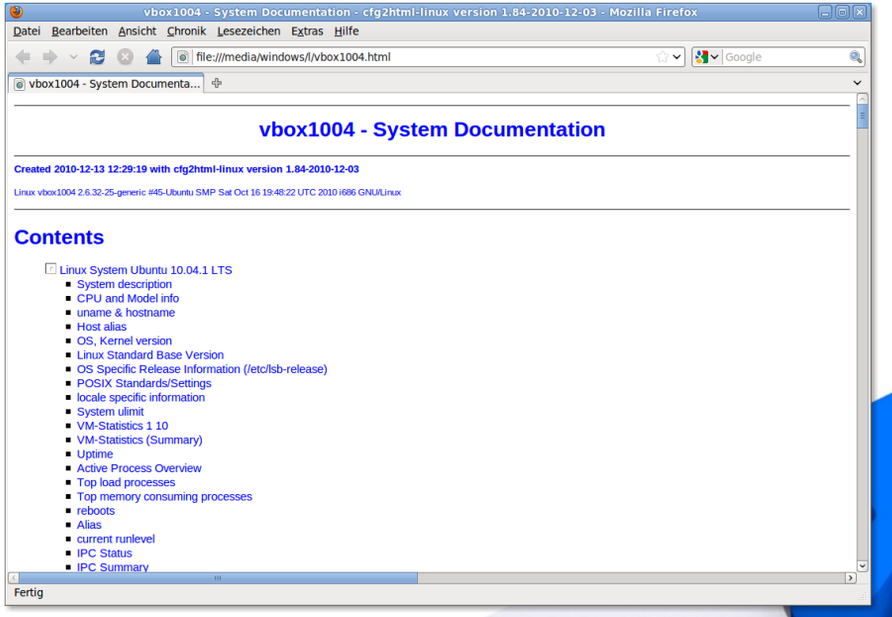
use the following options to disable / enable collections:
-s disable: System
-c disable: Cron
-S disable: Software
-T enable: trace timings in output (txt, html and err)
-f disable: Filesystem
-l disable: LVM
-L disable: Screen tips inline
-k disable: Kernel/Libraries
-e disable: Enhancements
-n disable: Network
-a disable: Applications
-H disable: Hardware
-p enable: HP Proliant Server log files and settings
-A disable: Altiris ADL agent log files and settings
-P enable: cfg2html plugin architecture



Basic Usage







Creates several files:

- **HTML report**
- **ASCII report**
- **Error report**

Sample output of running cfg2html

$ sudo ./cfg2html

```
--=[ http://www.cfg2html.com ]=-----------------------------------------------
Starting          cfg2html-linux version 6.16-git201312020913
Path to Cfg2Html  ./cfg2html
HTML Output File  /var/log/cfg2html/fedora20.html
Text Output File  /var/log/cfg2html/fedora20.txt
Partitions        /var/log/cfg2html/fedora20.partitions.save
Errors logged to  /var/log/cfg2html/fedora20.err
Local config      ./linux/etc/local.conf
Started at        2014-01-08 08:15:56
WARNING           USE AT YOUR OWN RISK!!! :-))          <<<<<
--=[ http://www.cfg2html.com ]=-----------------------------------------------

Collecting:  Linux System (Fedora release 20 (Heisenbug))  ......................................
Collecting:  Cron and At  ..........
Collecting:  Hardware  ....................
Collecting:  Software  ........
Collecting:  Filesystems, Dump- and Swapconfiguration  ..........
Collecting:  Multipath Configuration  ........
Collecting:  LVM  ............
Collecting:  Network Settings  ................................
Collecting:  Kernel, Modules and Libraries  ..............
Collecting:  System Enhancements  .
Collecting:  Applications and Subsystems  ...........

--=[ http://www.cfg2html.com ]=-----------------------------------------------
Returncode=1 (see /var/log/cfg2html/fedora20.err)
```



Output of /var/log/cfg2html/$(hostname).txt

```
Linux System (Fedora release 20 (Heisenbug)) ----
   - CPU and Model info
   - uname & hostname
   - Host alias
   - OS, Kernel version
   - Linux Standard Base Version
   - OS Specific Release Information (/etc/fedora-release)
   - OS Specific Release Information (/etc/os-release)
   - OS Specific Release Information (/etc/redhat-release)
   - OS Specific Release Information (/etc/system-release)
   - POSIX Standards/Settings
   - locale specific information
   - System ulimit
   - System Configuration Variables
   - Used Memory and Swap
   - Detailed Memory Usage (meminfo)
   - Zoned Buddy Allocator/Memory Fragmentation and Zones
   - Kernel slabinfo Statistics
   - Additional page allocator information
   - Per-zone page allocator
   - VM-Statistics 1 10
   - VM-Statistics (Summary)
   - Uptime
   - Active Process - Tree Overview
   - Top load processes
   - Top memory consuming processes
   - Top file handles consuming processes
   - reboots
```




($hostname).html view

fedora20 - System Documentation

Created "2014-01-08 08:15:56" with " cfg2html 6.16-git201312020913 "

Linux fedora20 3.11.10-301.fc20.x86_64 #1 SMP Thu Dec 5 14:01:17 UTC 2013 x86_64 x86_64 x86_64 GNU/Linux

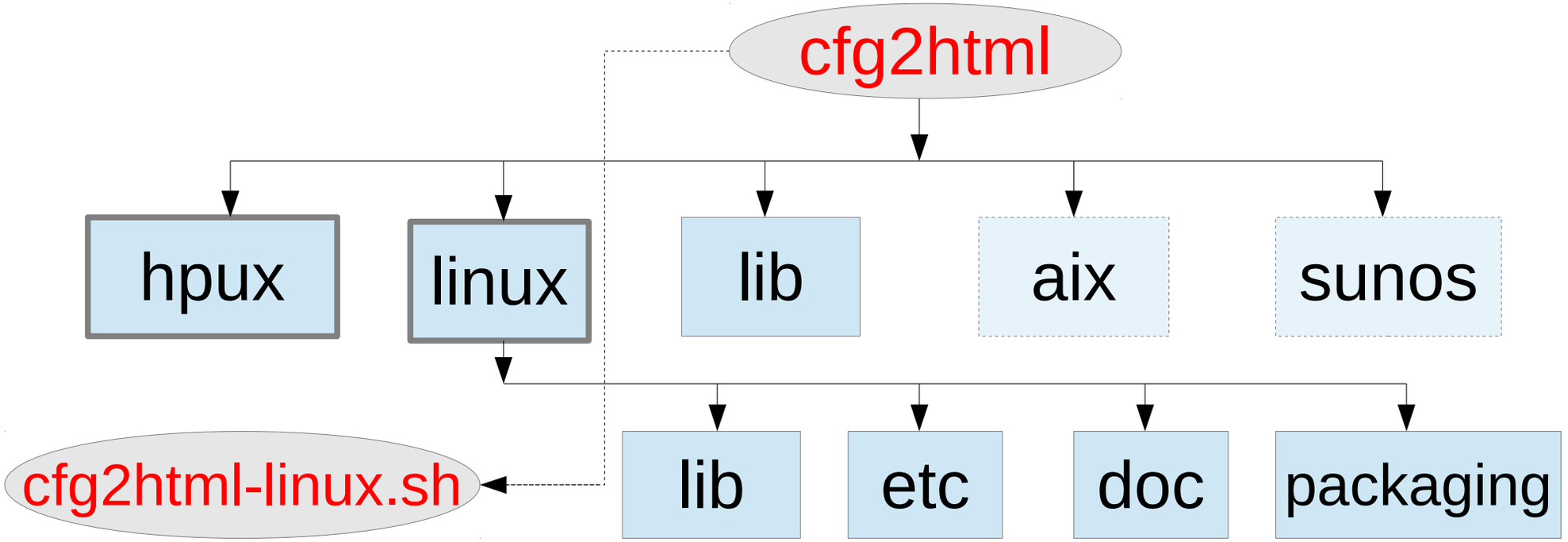
Contents

Linux System (Fedora release 20 (Heisenbug))

- CPU and Model info
- uname & hostname
- Host alias
- OS, Kernel version
- Linux Standard Base Version
- OS Specific Release Information (/etc/fedora-release)
- OS Specific Release Information (/etc/os-release)
- OS Specific Release Information (/etc/redhat-release)
- OS Specific Release Information (/etc/system-release)
- POSIX Standards/Settings
- locale specific information
- System ulimit
- System Configuration Variables
- Used Memory and Swap
- Detailed Memory Usage (meminfo)
- Zoned Buddy Allocator/Memory Fragmentation and Zones
- Kernel slabinfo Statistics
- Additional page allocator information
- Per-zone page allocator
- VM-Statistics 1 10
- VM-Statistics (Summary)



Source Tree



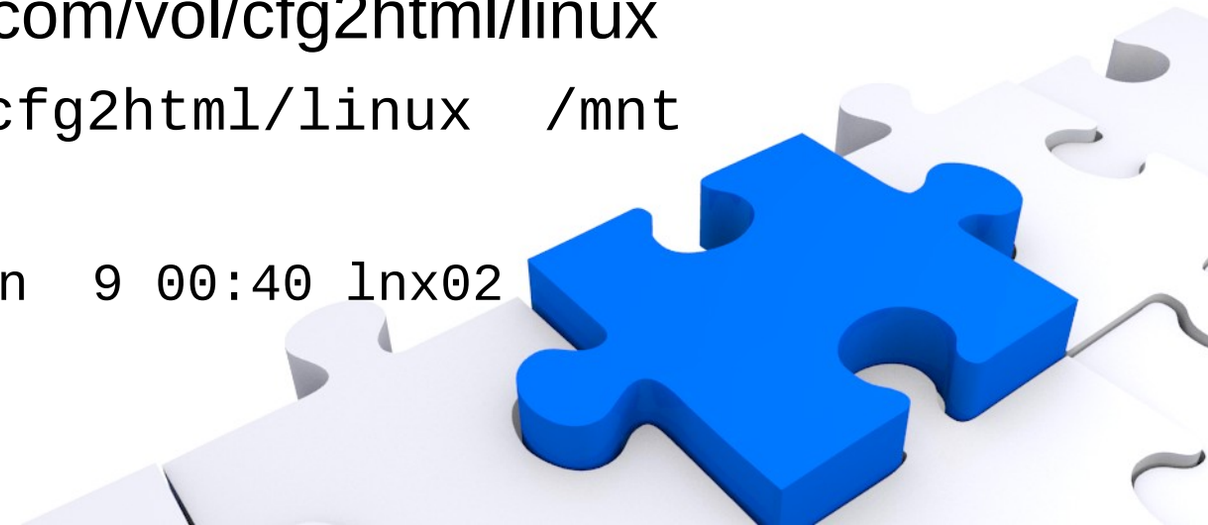

```
$ git clone git@github.com:cfg2html/cfg2html.git
```



Configuration Files

- /etc/cfg2html/default.conf (main configuration file)
  - Should not be changed; add your preferences in the local.conf
- /etc/cfg2html/local.conf (your personalized configuration file)
  - **OUTPUT_URL**=nfs://nfs.company.com/vol/cfg2html/linux
    - `mount nfs.company.com:/vol/cfg2html/linux  /mnt`
    - `ls -l /mnt/cfg2html/`

```
drwxr-xr-x 2 nobody nogroup 4096 Jan  9 00:40 lnx02
```



Demo Time





GitHub Issues

Everyone's Issues 33
Assigned to you 10
Created by you 11
Mentioning you 0

No milestone selected

Labels

- HPUX 13
- Linux 28
- bug 6
- documentation 3
- enhancement 22
- question 13
- waiting on feedback 4
- duplicate 0
- invalid 0
- wontfix 0

Manage Labels

33 Open | 22 Closed | Sort: Newest | 1 2

Close | Label | Assignee | Milestone | https://github.com/cfg2html/cfg2html/issues

- **nftables - new pakt filter** enhancement question Linux waiting on feedback #55
  Opened by roseswe 16 hours ago
- **Quota** enhancement Linux HPUX waiting on feedback #54
  Opened by roseswe 14 days ago
- **cpupower** enhancement question Linux waiting on feedback #53
  Opened by roseswe 25 days ago
- **NUMA architecture** enhancement question Linux waiting on feedback #52
  Opened by roseswe a month ago 1 comment
- **stale NFS causes cfg2html to hang** bug Linux HPUX #51
  Opened by gdha a month ago 2 comments
- **local.conf file should not be deleted after upgrade** enhancement HPUX #50
  Opened by gdha a month ago
- **/opt/cfg2html/plugins/getpwd.hppa** question HPUX #49
  Opened by gdha a month ago
- **samba configuration not always accurate** enhancement HPUX #48
  Opened by gdha a month ago 1 comment
- **Network collecting** enhancement question Linux #47
  Opened by roseswe 2 months ago 3 comments
- **adding elapsing time in output?** enhancement question Linux #46
  Opened by gdha 2 months ago 3 comments



We need your help



- We are looking for developers for AIX, Solaris,...
- AIX: https://sourceforge.net/projects/cfg2html/
  - Version dates from September 2011 (v2.81)
- Solaris: http://groups.yahoo.com/neo/groups/cfg2html/files/sun/
  - Version dates from April 2012 (v1.7)



Q & A

Contacts:
Ralph Roth - ralph.roth@gmail.com
Gratien D'haese - gratien.dhaese@gmail.com
URL: www.cfg2html.com

