

Федеральное государственное образовательное бюджетное
учреждение высшего образования
«Финансовый университет при Правительстве Российской Федерации»
колледжа информатики и программирования

Утилиты Linux

Презентация:
Косинского Яна
Студента: 2ПКС-215

Часто применяемые утилиты Linux:

- 1)GNU Screen(tmux)
- 2)IPTraf
- 3)Elinks
- 4)Cmus
- 5)Aria2
- 6)Cron
- 7)Arcron
- 8)Hdparm
- 9)Mdadm
- 10)Wget

GNU Screen(tmux)

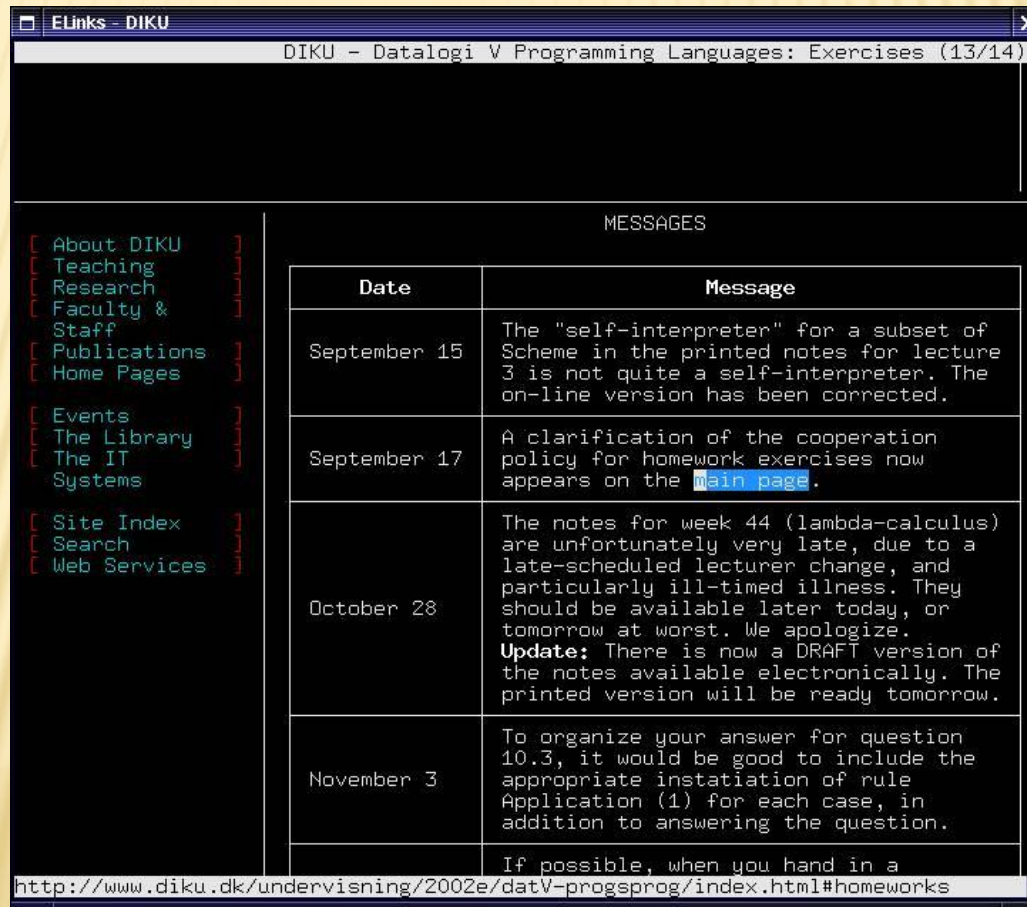
свободная консольная утилита-мультиплексор, предоставляющая пользователю доступ к нескольким терминалам в рамках одного экрана

```
Erlang, the programming language | Current Stable Version (17.4): erlang.org/download_release/, github.com/erlang/otp | Docs: erlang.org/erldoc, learnyousomeerlang.com | Comment
13:22      --- haxid -nitrokuaffiliated/haxid
13:22      essen      entity: 6-16, start of second column
13:23      essen      not percentage but number of each in a very large project
13:23      entity      ahh there it is
13:23      entity      thank you :)
13:24      essen      122 gen_server 36 gen_event 10 gen_fsm
13:24      essen      np, read that part like 2 days ago
13:26      entity      hm, any clue if I can just say that gen_server is the most widespread behaviour and cite that history paper?
13:26      entity      I mean, it is a bit hard to find in the text
13:26      emauton     I think that would be reasonable, if this is a write-up for a project or whatever.
13:26      entity      alright
13:26      entity      it's my thesis
13:27      emauton     You could consider counting in a few large modern projects (e.g. riak & deps?) to verify.
13:27      entity      that'd be too much work tho :P
13:28      emauton     Pff, grep for -behaviour lines. Students these days!
13:28      emauton     :o)
13:28      entity      deadline is in 3 weeks and I'm about 1/3 through
13:28      emauton     Just kidding, forge ahead and good luck with the writeup.
13:28      entity      emauton: I guess I might give it a try... if I find some spare time
13:28      entity      emauton: thanks
[16:52] [mhi^(+Z!)] [8:fn/#erlang(+cgn!)]
#erlang
cyllene irc                                @:irssi*                                  16:52

12 case VTERM_PROP_ALTSCREEN:                | 2015-04-22 10:05 Thomas Adam             M- [master] {origin/master} {origin/HEAD} Merge
11 break;                                    | 2015-04-21 22:42 nice                    | o Look up indexes as number before name, makes
10                                            | 2015-04-21 22:38 nice                    | o Always format real layout even when zoomed.
9 case VTERM_PROP_CURSORVISIBLE:            | 2015-04-21 22:32 nice                    | o Do not die on USR1 if any of the socket paren
8 term->cursor.visible = val->boolean;        | 2015-04-21 22:21 nice                    | o Simplify error messages when socket connect f
7 invalidate_terminal(term, term->cursor.row, | 2015-04-21 21:31 nice                    | o The free callback could end up being fired b
6 break;                                     | 2015-04-21 21:24 nice                    | o Fix moving windows to nonexistent indexes wh
5                                            | 2015-04-21 15:34 nice                    | o Bind mouse dragging so that it is passed thro
4 case VTERM_PROP_TITLE: {                  | 2015-04-21 15:21 nice                    | o Don't eat the mouse event that triggers a dra
3 Error err;                                 | 2015-04-21 15:18 nice                    | o Put mouse_any_flag back, don't know where it
2 dict_set_value(term->buf->b_vars,          | 2015-04-21 15:18 nice                    | o Pass mouse events through to commands for if-
1 cstr_as_string("term_title"),            | 2015-04-21 15:16 nice                    | o cmd_mouse_pane can return NULL, check for tho
0 STRING_OBJ(cstr_as_string(%s)->string)), &fail); | 2015-04-20 15:41 nice                    | o Remove unused-but-set variables, from Thomas
1 break;                                    | 2015-04-20 15:34 nice                    | o Support for multiple key tables to commands t
2 }                                          | 2015-04-20 14:48 nice                    | o Style nit - unnecessary brackets.
3                                            | 2015-04-20 15:44 Thomas Adam             M-|- Merge branch 'obsd-master'
4 case VTERM_PROP_MOUSE:                    | 2015-04-20 09:39 nice                    | o- Make jump-to-backward/jump-to-forward repea
5 term->forward_mouse = (bool)val->number;   | 2015-04-20 07:50 nice                    | o Use a more sensible buffer size for flags str
6 break;                                    | 2015-04-19 22:10 jmc                    | o tweak previous;
7                                            | 2015-04-19 21:46 nice                    | o Honour renumber-windows when unlinking a wind
8 default:                                   | 2015-04-19 21:34 nice                    | o Rewrite of tmux mouse support which was a mes
/data/repos/neovim/src/nvim/terminal.c:master
Foo local                                  @:nvim* lizuh 2:gtail 3:non-              partial type signatures 16:52
```

Elinks

текстовый браузер, поддерживающий таблицы, фреймы, цветовую палитру в 16, 88 или 256 цветов, фоновые загрузки с оповещением об окончании загрузки.



Cmus

лёгкий и быстрый консольный медиаплеер для Unix-подобных операционных систем.

Artist / Album	Track	Library
Tristania	01. Intro	2004 01:58
U2	02. See Who I Am	2004 04:51
Uelmen, Matt	03. Jillian (I'd Give My Heart)	2004 04:46
Uematsu, Nobuo	04. Stand My Ground	2004 04:27
Vertical Horizon	05. Pale	2004 04:28
Verve Pipe, The	06. Forsaken	2004 04:53
Verve, The	07. Angels	2004 04:00
Wallflowers, The	08. Memories	2004 03:51
Washington, Dinah	09. Aquarius	2004 04:46
Who, the	10. It's the Fear	2004 04:06
Wicked	11. Somewhere	2004 04:13
Wild Party, the	12. A Dangerous Mind	2004 04:16
Williams, John	13. The Swan Song	2004 03:57
Williams, Lucinda		
Within Temptation		
Enter		
The Dance		
Mother Earth		
Mother Earth [EP]		
The Silent Force		
Within Temptation - The Silent Force - 08. Memories		2004
> 00:34 / 03:51 - 285:39:02 vol: 98		all from library CR

Aria2

свободная кроссплатформенная консольная программа для загрузки файлов по сети.

```
geeks-world@geeksworld-Compaq-Presario-CQ60-Notebook-PC: ~
geeks-world@geeksworld-Compaq-Presario-CQ60-Notebook-PC:~$
geeks-world@geeksworld-Compaq-Presario-CQ60-Notebook-PC:~$ aria2c -d
aria2c: option requires an argument -- 'd'
Exception: [OptionParser.cc:181] errorCode=28 Failed to parse command-line options.
Usage: aria2c [OPTIONS] [URI | MAGNET | TORRENT_FILE | METALINK_FILE]...
See 'aria2c -h'.
geeks-world@geeksworld-Compaq-Presario-CQ60-Notebook-PC:~$ aria2c -d /home/geeks-world/Downloads/
Specify at least one URL.
Usage: aria2c [OPTIONS] [URI | MAGNET | TORRENT_FILE | METALINK_FILE]...
See 'aria2c -h'.
geeks-world@geeksworld-Compaq-Presario-CQ60-Notebook-PC:~$ aria2c -d /home/geeks-world/Downloads/ http://cznic.dl.sourceforge.net/p
roject/aria2/stable/aria2-1.18.2/aria2-1.18.2.tar.bz2
[#2d7fba 1.9MiB/2.0MiB(95%) CN:1 DL:226KiB]
12/29 12:04:52 [NOTICE] Download complete: /home/geeks-world/Downloads//aria2-1.18.2.tar.bz2

Download Results:
gid |stat|avg speed |path/URI
-----+-----+-----+-----
2d7fba|OK | 227KiB/s|/home/geeks-world/Downloads//aria2-1.18.2.tar.bz2

Status Legend:
(OK):download completed.
geeks-world@geeksworld-Compaq-Presario-CQ60-Notebook-PC:~$
```

Cron

классический планировщик задач в UNIX-подобных операционных системах, использующийся для периодического выполнения заданий в определённое время.

```
[root@testmelih ~]#  
[root@testmelih ~]#  
[root@testmelih ~]# tail -f /var/log/cron  
Sep 27 16:30:01 testmelih CROND[4543]: (root) CMD (/usr/lib/sa/sa1 1 1)  
Sep 27 16:40:01 testmelih CROND[4563]: (root) CMD (/usr/lib/sa/sa1 1 1)  
Sep 27 16:50:01 testmelih CROND[4582]: (root) CMD (/usr/lib/sa/sa1 1 1)  
Sep 27 17:00:01 testmelih CROND[4601]: (root) CMD (/usr/lib/sa/sa1 1 1)  
Sep 27 17:01:01 testmelih CROND[4605]: (root) CMD (run-parts /etc/cron.hourly)  
Sep 27 17:01:01 testmelih run-parts(/etc/cron.hourly)[4605]: starting 0anacron  
Sep 27 17:01:01 testmelih run-parts(/etc/cron.hourly)[4614]: finished 0anacron  
Sep 27 17:10:00 testmelih crontab[4645]: (root) LIST (root)  
Sep 27 17:10:01 testmelih CROND[4649]: (root) CMD (/usr/lib/sa/sa1 1 1)  
Sep 27 17:20:01 testmelih CROND[4671]: (root) CMD (/usr/lib/sa/sa1 1 1)
```

Arcron

Анаcron в отличие от cron не поддерживает запуск заданий по расписанию, вместо этого задания запускаются с заданным интервалом времени.

```
Nov 17 08:33:30 ws pppd[2160]: Timeout waiting for PAD0 packets
Nov 17 08:34:35 ws pppd[2160]: Timeout waiting for PAD0 packets
Nov 17 08:34:35 ws pppd[2160]: Exit.
Nov 17 09:17:02 ws recheck_for_updates: Running /usr/local/bin/check_for_updates
Nov 17 09:17:02 ws check_for_updates: Starting
Nov 17 09:17:02 ws check_for_updates: Updating holdlist
Nov 17 09:17:11 ws check_for_updates: Running 'apt-get update'
Nov 17 09:17:11 ws check_for_updates: Error exit called
Nov 17 09:24:18 ws nagios3: Auto-save of retention data completed successfully.
Nov 17 10:05:58 ws kernel: [ 6185.581784] br0: port 1(eth0) entering forwarding state
Nov 17 10:05:58 ws kernel: [ 6185.637674] device eth0 left promiscuous mode
Nov 17 10:05:58 ws kernel: [ 6185.637681] br0: port 1(eth0) entering disabled state
Nov 17 10:05:58 ws kernel: [ 6185.639415] ADDRCONF(NETDEV_UP): eth0: link is not ready
Nov 17 10:06:02 ws kernel: [ 6188.955834] device eth0 entered promiscuous mode
Nov 17 10:06:02 ws kernel: [ 6189.097303] r8169 0000:03:00.0: eth0: link down
Nov 17 10:06:02 ws kernel: [ 6189.097309] r8169 0000:03:00.0: eth0: link down
Nov 17 10:06:02 ws kernel: [ 6189.098125] ADDRCONF(NETDEV_UP): eth0: link is not ready
Nov 17 10:06:02 ws kernel: [ 6189.105573] ADDRCONF(NETDEV_UP): br0: link is not ready
Nov 17 10:06:03 ws kernel: [ 6190.709642] r8169 0000:03:00.0: eth0: link up
```


Hdparm

Утилита предназначена для регулировки и просмотра параметров жестких дисков с интерфейсом ATA.

```
HDPARM(8)                                                                 HDPARM(8)

NAME
  hdparm - get/set SATA/IDE device parameters

SYNOPSIS
  hdparm [options] [device ...]

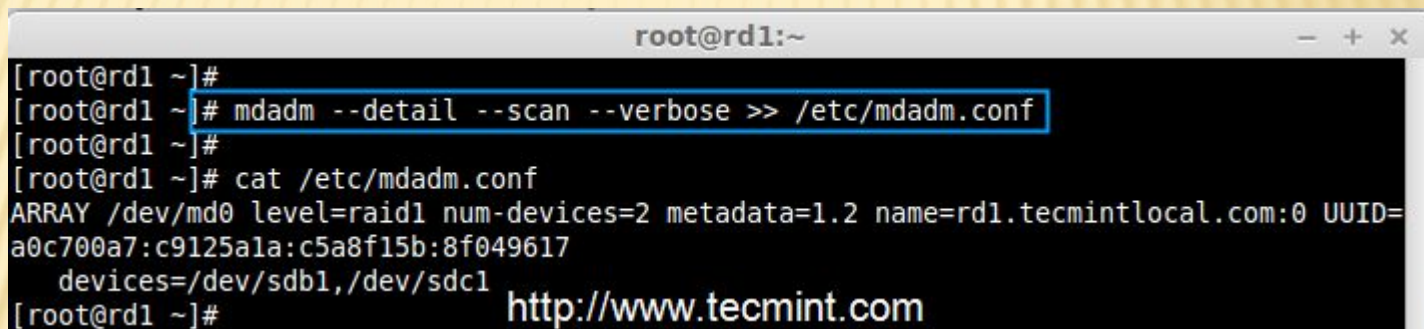
DESCRIPTION
  hdparm provides a command line interface to various kernel interfaces
  supported by the Linux SATA/PATA/SAS "libata" subsystem and the older
  IDE driver subsystem. Many newer (2008 and later) USB drive enclosures
  now also support "SAT" (SCSI-ATA Command Translation) and therefore may
  also work with hdparm. E.g. recent WD "Passport" models and recent
  NexStar-3 enclosures. Some options may work correctly only with the
  latest kernels.

OPTIONS
  When no options are given, -acdgmur is assumed. For "Get/set"
  options, a query without the optional parameter (e.g. -d) will query
  (get) the device state, and with a parameter (e.g., -d0) will set the
  device state.

-- MOST: *stdin*                                                                 (1,1) 0%
Press `Q` to quit, `H` for help, and SPACE to scroll.
```

Mdadm

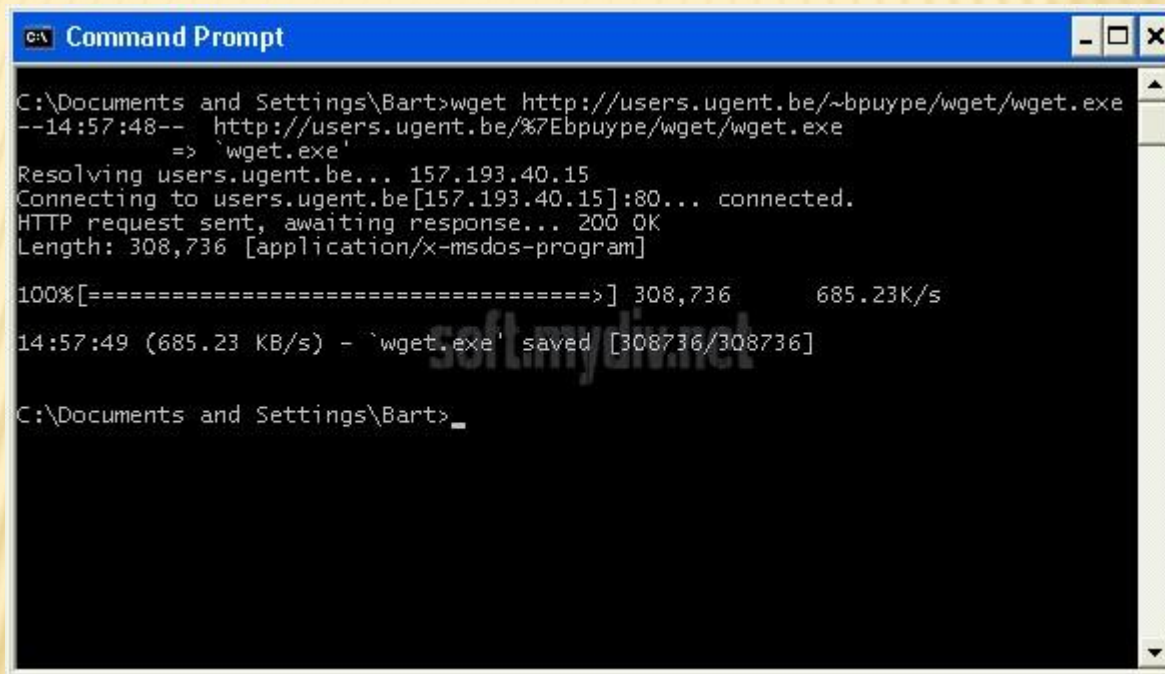
утилита для управления программными RAID-массивами в Linux.

A terminal window titled 'root@rd1:~' with standard window controls. The terminal shows a sequence of commands and their outputs. The command 'mdadm --detail --scan --verbose >> /etc/mdadm.conf' is highlighted with a blue box. The output of 'cat /etc/mdadm.conf' shows RAID configuration details for /dev/md0.

```
root@rd1:~  
[root@rd1 ~]#  
[root@rd1 ~]# mdadm --detail --scan --verbose >> /etc/mdadm.conf  
[root@rd1 ~]#  
[root@rd1 ~]# cat /etc/mdadm.conf  
ARRAY /dev/md0 level=raid1 num-devices=2 metadata=1.2 name=rd1.tecmintlocal.com:0 UUID=  
a0c700a7:c9125a1a:c5a8f15b:8f049617  
  devices=/dev/sdb1,/dev/sdc1  
[root@rd1 ~]# http://www.tecmint.com
```

Wget

свободная *неинтерактивная* консольная программа для загрузки файлов по сети.



```
C:\Documents and Settings\Bart>wget http://users.ugent.be/~bpuype/wget/wget.exe
--14:57:48--  http://users.ugent.be/%7Ebpuype/wget/wget.exe
=> `wget.exe'
Resolving users.ugent.be... 157.193.40.15
Connecting to users.ugent.be[157.193.40.15]:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 308,736 [application/x-msdos-program]

100%[=====] 308,736      685.23K/s

14:57:49 (685.23 KB/s) - `wget.exe' saved [308736/308736]

C:\Documents and Settings\Bart>_
```

Спасибо за внимание