Debian-based Live CD
Debian-based Live CD

for SysAdmins
Basic Features

Welcome to

GRML

grml.org - Linux for sysadmins and texttool users.

* Finished early booting sequence. [ ok ]
* Searching for GRML file, this might take a few seconds...
Basic Features

Welcome to GRML

grml.org - Linux for sysadmins and texttool users.

- Running grml64-daily-sid 110111 Release Codename grml-live-autobuild [2011-01-11]
- Finished early booting sequence. [ ok ]
- Searching for GRML file, this might take a few seconds...

- Live CD
Basic Features

- Live CD
- Allows `apt-get install` / `dpkg -l`
Basic Features

- Live CD
- Allows `apt-get install / dpkg -l`
- It’s free!
In the box
In the box

- CLI tools for sysadmins & recovery
In the box

- CLI tools for sysadmins & recovery
- Deployment Tools

grml.org/features/
In the box

- CLI tools for sysadmins & recovery
- Deployment Tools
- Documentation
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- Deployment Tools
- Documentation

- >2500 packages ~ 2GB on 700MB ISO
grub1/2 memtest86 syslinux iPXE
kernel-2.6.36.2 fbcon kms drbd MirBSD
squashfs-lzma openafs LUKS iSCSI vim
emacs joe htop multitail w3m elinks irssi
zsh rsync duplication parted
testdisk ddrescue nmap wireshark scapy
hp ping foremost wipe apache2 slapd
keepalived subversion git mercurial darcs
dhcp-server sshd dnsmasq gcc python perl
ruby1.8/9 tcl facter cfengine2
puppetmaster cciss-vol-status dsh unrar
lha mplayer X11 fluxbox virtualbox-ose
tetrinet-client
Supports ...
Supports ...

- 32bit / 64bit x86
Supports ...

- 32bit / 64bit x86
- lvm2 / md-raid / LUKS / loop-aes
Supports ...

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- lvm2 / md-raid / LUKS / loop-aes
- Boot from CD, USB, PXE, ISO
Supports ...

• 32bit / 64bit x86
• lvm2 / md-raid / LUKS / loop-aes
• Boot from CD, USB, PXE, ISO
• Servers.
Known Users

You?
Please tell us!
contact@grml.org
Flavours
Flavours

• 700MB GRML_FULL
  fully loaded
Flavours

- 700MB  GRML_FULL
  fully loaded

- 120MB  GRML_SMALL
  very small
Flavours

- **700MB** GRML_FULL
  fully loaded

- **120MB** GRML_SMALL
  very small

- **220MB** GRML_MEDIUM
  Ideal starting point for customization
Easy Customization
“Remastering”
grml-live

- Build- & Remastering Tool
- Automatable
- FAI-based & Classes
grml-live
grml-live

- vi /etc/grml/...
- grml-live (-b | -u)
- => grml64_custom-0.1.iso
Deployment Tools
ISO Boot Options
ISO Boot Options

- netconfig=server/config.tbz  download&extract
- netscript=server/script  download&execute
- hostname= / nodhcp
- debs   Install debs from "debs" folder
- scripts=installme   Execute scripts in "installme"
- findiso=/grml.iso  Load grml.iso from your harddisk partition(s)
- fetch=$IP/grml.sqashfs Load grml.sqashfs via HTTP
- ssh=password
grml-debootstrap
grml-debootstrap

• Wrapper around debootstrap
  grml-debootstrap \
  --target /dev/sda3 \
  --grub /dev/sda

grml.org/grml-debootstrap
grml-debootstrap

- Wrapper around debootstrap
  ```bash
  grml-debootstrap \n  --target /dev/sda3 \n  --grub /dev/sda
  ```

- Boot using:
  ```bash
  debian2hd target=/dev/sda1
  grub=/dev/sda password=grml
  ```
grml-debootstrap

• Wrapper around debootstrap
  grml-debootstrap \ 
  --target /dev/sda3 \ 
  --grub /dev/sda

• Boot using:
  debian2hd target=/dev/sda1 
  grub=/dev/sda password=grml

• Customize: /etc/debootstrap & netconfig=
grml-terminalserver

- Easy PXE Boot quickstart
grml-terminalserver

- Easy PXE Boot quickstart
- Boot one node from CD/USB
• Easy PXE Boot quickstart
• Boot one node from CD/USB
• Boot all others from PXE
grml-terminalserver

- Easy PXE Boot quickstart
- Boot one node from CD/USB
- Boot all others from PXE
- Supports all the boot options ...
grml2hd

- For Non-production systems only
- Development
- Testing
- Demos & Workshops
- Remastering Quickstart
custom:

- Remaster from GRML_MEDIUM
custom:

- Remaster from GRML_MEDIUM
- Add your tools
custom:

- Remaster from GRML_MEDIUM
- Add your tools
- Add your base configuration
custom:

• Remaster from GRML_MEDIUM
• Add your tools
• Add your base configuration
• Put it on USB or PXE
custom:example
custom:example

• Remastered from GRML_MEDIUM
custom:example

- Remastered from GRML_MEDIUM
- Added hardware firmware upgrades
custom:example

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- Added hardware firmware upgrades
- Added inventory db integration (sicekit)
custom:example

- Remastered from GRML_MEDIUM
- Added hardware firmware upgrades
- Added inventory db integration (sicekit)
- Added puppet (older version...)

Mittwoch, 12. Jänner 2011
custom:example

• Remastered from GRML_MEDIUM
• Added hardware firmware upgrades
• Added inventory db integration (sicekit)
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• Added my base config
custom:example

- Remastered from GRML_MEDIUM
- Added hardware firmware upgrades
- Added inventory db integration (sicekit)
- Added puppet (older version...)
- Added my base config
- Put it on PXE
custom:example

• Remastered from GRML_MEDIUM
• Added hardware firmware upgrades
• Added inventory db integration (sicekit)
• Added puppet (older version...)
• Added my base config
• Put it on PXE
• Fully automated OpenVZ deployment
F AI
• Ships with fai-client & stuff
Future
Future

- RAID Config/Monitor Vendor Tools
Future

- RAID Config/Monitor Vendor Tools
- Focus on deployment
Future

• RAID Config/Monitor Vendor Tools

• Focus on deployment

• Cloud?
Help us

- grml.org/survey2011
- Send Bug Reports
- Hosting
- Test Hardware - Servers
MOAR Features
MOAR Features

• dd’able ISO -> USB || grml2usb
MOAR Features

- dd’able ISO -> USB || grml2usb
- grml-bridge & grml-vnet
MOAR Features

- dd’able ISO -> USB || grml2usb
- grml-bridge & grml-vnet
- Z-Shell
MOAR Features

• dd’able ISO -> USB || grml2usb
• grml-bridge & grml-vnet
• Z-Shell
• forensic
MOAR Features

- dd’able ISO -> USB || grml2usb
- grml-bridge & grml-vnet
- Z-Shell
- forensic
- grml-x
MOAR Features

• dd’able ISO -> USB || grml2usb
• grml-bridge & grml-vnet
• Z-Shell
• forensic
• grml-x
• Please STEAL OUR CONFIG
http://grml.org/

#grml @ FreeNode

@grmlproject