

# Live

Live <debian-live@lists.debian.org>

2015-08-23

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**Live**

**Live**

**<debian-live@lists.debian.org>**

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```
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$ dpkg-buildpackage -b -uc -us
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$ dpkg-buildpackage -b -uc -us
```

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```

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## Live

---

```
$ mkdir live-default && cd live-default
```

```
lb config config/
```

```
$ lb config
```

```
lb config
```

```
config/lb build
```

```
# lb build
```

```
live-image-i386.hybrid.iso
```

```
: amd64 live-image-amd64.hybrid.iso
```

### ISO hybrid Live

```
ISO hybrid https://www.debian.org/CD/live/ CD-R(W) DVD-R(W) USB
```

### ISO

```
ISOxorriso :
```

```
# apt-get install xorriso  
$ xorriso -as cdrecord -v dev=/dev/sr0 blank=as_needed live-image-i386.hybrid.iso
```

### ISO hybrid USB

```
xorriso ISO cp USBUSB ${USB} /dev/sdb USB /dev/sdb1 ! USB dmesg ls -l /dev/disk/by-id
```

```
cp USBUSB!
```

```
$ cp live-image-i386.hybrid.iso ${USB}  
$ sync
```

```
: sync USB
```

## Live

### USB

live-image-i386.hybrid.iso USB Live *gparted parted* USB

```
# gparted ${USB}
```

ext4 \${} /dev/sdb2

```
# mkfs.ext4 ${}
```

: Windows OS{}#contact

**Remember: live-image-i386.hybrid.iso USB USB Live**

### Live

Live CDDVDUSB PXE BIOS BIOS BIOS BIOS Live

enter Live Live live-boot live-config man

Live Live user {}#downloading-prebuilt-images standard user

Live (VM) :

VMOSOSRAMCPU

VM

VM

VM

### QEMU ISO

Debian VM QEMU *qemu-kvm qemu-kvm*

*qemu-kvm qemu kvm qemu qemu-utils qemu-img*

```
# apt-get install qemu-kvm qemu-utils
```

ISO:

```
$ kvm -cdrom live-image-i386.hybrid.iso
```

man

223

## VirtualBox ISO

224

*virtualbox* ISO:

225

226

```
# apt-get install virtualbox virtualbox-qt virtualbox-dkms  
$ virtualbox
```

live-image-i386.hybrid.iso CD/DVD

227

: X.org Live *virtualbox* live-build VirtualBox X.org *virtualbox* *virtualbox-guest-dkms* *virtualbox-guest-x11* 800x600

229

```
$ echo "virtualbox-guest-dkms virtualbox-guest-x11" >> config/package-lists/my.list.chroot
```

dkms *linux-headers* live-build

230

231

```
$ lb config --linux-packages "linux-image linux-headers"
```

## HDD

232

HDD ISO hybrid -b hdd live-image-i386.img USBUSB ISO hybrid BIOS hybrid HDD

233

: ISO hybrid lb clean (lb clean ):

234

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```
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```

lb config HDD:

236

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```
$ lb config -b hdd
```

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```
# lb build
```

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```
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```

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```
# lb clean
```

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lb config netboot : 249

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```
$ lb config -b netboot --net-root-path "/srv/debian-live" --net-root-server "192.168.0.2"
```

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```
# lb build
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```
# /etc/dhcp/dhcpd.conf - configuration file for isc-dhcp-server

ddns-update-style none;

option domain-name "example.org";
option domain-name-servers ns1.example.org, ns2.example.org;

default-lease-time 600;
max-lease-time 7200;

log-facility local7;

subnet 192.168.0.0 netmask 255.255.255.0 {
    range 192.168.0.1 192.168.0.254;
    filename "pxelinux.0";
    next-server 192.168.0.2;
    option subnet-mask 255.255.255.0;
    option broadcast-address 192.168.0.255;
    option routers 192.168.0.1;
}
```

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```
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```
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```
# exportfs -rv
```

3 「<http://www.syslinux.org/wiki/index.php/PXELINUX>」 **syslinux wiki** 「<http://d-i.alioth.debian.org/manual/ja.i386/ch05.html>」

Debian TFTP



Netboot live-build

## Qemu

*qemubridge-utilssudo*

/etc/qemu-ifup :

```
#!/bin/sh
sudo -p "Password for $0:" /sbin/ifconfig $1 172.20.0.1
echo "Executing /etc/qemu-ifup"
echo "Bringing up $1 for bridged mode..."
sudo /sbin/ifconfig $1 0.0.0.0 promisc up
echo "Adding $1 to br0..."
sudo /usr/sbin/brctl addif br0 $1
sleep 2
```

grub-floppy-netboot

-net nic,vlan=0 -net tap,vlan=0,ifname=tun0 qemu

Live RAM squashfs

「<http://live-systems.org/>」 Live binary/live/ vmlinuzinitrd.imgfilesystem.squashfs

ISO:

```
# mount -o loop image.iso /mnt
```

live/ /mnt/live/ root

ISO mc *genisoimage* 2ISO1ftp root

vmlinuz initrd.img USB live/ syslinux USB fetch=URL/// live-boot squashfs RAM Live  
:

## Live

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```
append boot=live components fetch=http://192.168.2.50/images/webboot/filesystem.squashfs
```

: squashfs 21 gnome 1USB gnome

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```
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$ cd images/standard
```

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```

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```
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```

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```
$ lb config --mirror-binary http://mirror/debian/ \  

  --mirror-binary-security http://mirror/debian-security/ \  

  --mirror-binary-backports http://mirror/debian-backports/
```

backports experimental config/archives/your-repository.list.chroot config/archives/your-repository.list.chroot  
 -mirror-\* **chroot** Live

config/archives/live.list.chroot Live debian-live 390

```
deb http://live-systems.org/ sid-snapshots main contrib non-free
```

config/archives/live.list.binary Live /etc/apt/sources.list.d/ 392

GPG config/archives/your-repository.key.{binary,chroot} 394

APTAPT config/archives/your-repository.pref.{binary,chroot} Live /etc/apt/preferences.d/ 395

There are a number of ways to choose which packages live-build will install in your image, covering a variety of different needs. You can simply name individual packages to install in a package list. You can also use metapackages in those lists, or select them using package control file fields. And finally, you may place package files in your config/ tree, which is well suited to testing of new or experimental packages before they are available from a repository. 397

: live-build APT apt aptitude 400

: 402

```
$ lb config
$ echo task-gnome-desktop > config/package-lists/desktop.list.chroot
```

live-build 2.x Live 404

task- (): 405

```
$ apt-cache search --names-only ^task-
```

## Live

gnome-core education-\* Debian Pure Blend debtags role::metapackage : 407

408

```
$ debtags search role::metapackage
```

409

config/package-lists/ Live 410

.list .chroot .binary 411

: .list.chroot Live .deb 412

413

.list.binary config/package-lists/ Live Live pool/ Live chroot .list 414

415

chroot ! grep-aptavail -n -sPackage -FPriority standard | sort Priority: standard 416

grep-aptavail (dctrl-tools ) live-build Packages 2: 417

418

```
$ lb config
```

```
$ echo '! Packages Priority standard' > config/package-lists/standard.list.chroot
```

419

config/\* (LB\_ ) live-build lb config DISTRIBUTION ARCHITECTURESARCHIVE\_AREAS 420

-architectures amd64 ia32-libs : 421

422

```
#if ARCHITECTURES amd64
```

```
ia32-libs
```

```
#endif
```

1-architectures i386 -architectures amd64 memtest86+ : 423

424

```
#if ARCHITECTURES i386 amd64
```

```
memtest86+
```

```
#endif
```

-archive-areas contrib non-free vrms : 425

426

## Live

```
#if ARCHIVE_AREAS contrib non-free
vrms
#endif
```

427

428

```
config/package-lists .list.chroot_live .list.chroot_install Live .list.chroot_live () 429
.list.chroot_install Live -debian-installer live Live
```

430

```
Live Debian Debian gnome-desktop kde-desktoplxde-desktopxfce-desktop tasksel 431
```

```
Live Debian Live live-build 432
```

```
GNOME : 433
```

434

```
$ lb config
$ echo "task-gnome-desktop task-laptop" >> config/package-lists/my.list.chroot
$ echo "task-german task-german-desktop task-german-gnome-desktop" >> config/package-lists/my.↵
list.chroot
```

```
() 435
```

```
-linux-flavours linux-image 436
```

```
amd64 linux-image-amd64 i386 linux-image-586 437
```

```
-linux-packages amd64 experimental linux-image-3.18.0-trunk-amd64 : 438
```

439

```
$ lb config --linux-packages linux-image-3.18.0-trunk
$ echo "deb http://ftp.debian.org/debian/ experimental main" > config/archives/experimental.↵
list.chroot
```

440

```
Debian live-build .deb 441
```

```
kernel-handbook ABI linux linux-latest 442
```

```
{ () }#kernel-flavour-and-version -linux-packages {}#installing-modified-or-third-party 443
packages
```

```
: 444
```

RAM	445
( aufs)	446
( squashfs)	447
	448
Live Debian Live	449
Joachim Breitner <a href="http://www.joachim-breitner.de/blog/archives/282-How-to-fork-privately.html">http://www.joachim-breitner.de/blog/archives/282-How-to-fork-privately.html</a> How to fork privately <a href="https://www.debian.org/doc/maint-guide/">https://www.debian.org/doc/maint-guide/</a> Debian	450
2:	451
packages.chroot	452
APT	453
packages.chroot APT	454
<b>packages.chroot</b>	455
config/packages.chroot/ Live -	456
dpkg-name	457
packages.chroot :	458
secure APT	459
config/packages.chroot/	460
Live	461
<b>APT</b>	462
packages.chroot APT {} #choosing-packages-to-install	463
APT	464
<b>APT</b>	465
live-build Live APT ()2APT	466
debian/changeLog Debian Live APT - {APT} #apt-pinning	467
<b>APT</b>	468
APT ( Live APT Live config/includes.chroot/ ) lb_config man apt	469



**apt aptitude** 470

*apt aptitude* lb config -apt 471

apt: 472

aptitude: 473

**APT** 474

APT-apt-ftp-proxy -apt-http-proxy APT: 475

476

```
$ lb config --apt-http-proxy http://proxy/
```

**APT** 477

478

APT: 479

480

```
$ lb config --apt-indices false
```

/etc/apt/sources.list /var/lib/apt Live APTapt-cache search apt-get install apt-get 481  
update

APT: 482

483

```
$ lb config --apt-recommends false
```

live-boot live-config Live live-config Live user-setup live-\* 484

(Debian 7.2) Live (lb build binary.packages ) {APT}#apt-pinning APT 485

**apt aptitude** 486

APT lb config -apt-options -aptitude-options APT apt aptitude man snapshot.debian.org 487

Acquire::Check-Valid-Until=false APT Release -yes :

488

```
$ lb config --apt-options "--yes -oAcquire::Check-Valid-Until=false"
```

man Live 489

apt.conf APT config/apt/apt.conf apt-\* 490

**APT**

491

apt\_preferences(5) man APT config/archives/\*.pref config/archives/\*.pref.chroot config/apt/preferences  
config/includes.chroot/etc/apt/preferences

`${testing}` Live Live sid APT sid sid Live sid `${testing}` :

493

494

```
$ echo "deb http://mirror/debian/ sid main" > config/archives/sid.list.chroot
$ cat >> config/archives/sid.pref.chroot << EOF
Package: live-*
Pin: release n=sid
Pin-Priority: 600

Package: *
Pin: release n=sid
Pin-Priority: 1
EOF
```

config/package-lists/desktop.list.chroot task-lxde-desktop LXDE wifi *lxde-core lxde-core* *gksu gksu gnome-keyring gnome-keyring* config/apt/preferences :

495

496

```
Package: gnome-keyring
Pin: version *
Pin-Priority: -1
```



Live Live preseed debconf

498

499

## Includes

500

Live Live () live-build 2:

501

chroot : chroot/Live {Live/chroot }#live-chroot-local-includes

502

: {}#binary-local-includes

503

Live{}#terms

504

## Live/chroot

505

chroot chroot/Live Live Live (/etc/skel) live Live/chroot

506

config/includes.chroot Live / Live /var/www/index.html :

507

508

```
$ mkdir -p config/includes.chroot/var/www
$ cp /path/to/my/index.html config/includes.chroot/var/www
```

:

509

510

```
-- config
[...]
```

- |-- includes.chroot
  - | `-- var
    - | `-- www
      - | `-- index.html

```
[...]
```

chroot

511

512

Live chroot /video\_demo.\* Live HTML config/includes.binary/ :

513

514

```
$ cp ~/video_demo.* config/includes.binary/
```

Live

515

516

chroot

517

**Live/chroot**

518

chroot .hook.chroot config/hooks/ chroot chroot chroot /usr/share/doc/live-build/examples/hooks  
chroot

520

man live-config /lib/live/config/ live-config config/includes.chroot/lib/live/config/  
chroot {}#installing-modified-or-third-party-packages

522

.hook.binary config/hooks/ binary\_checksums chroot! /usr/share/doc/live-build/examples/hooks

**Debconf preseed**

524

config/preseed/ (.chroot .binary) .cfg debconf preseed live-build debconf-set-selections

526

debconf *debconf* debconf(7)



live-config live-config live-config man

528

529

**live**

530

live live-boot live-build Live/chroot live live

531

live-config live live fuse config/includes.chroot/etc/live/config/user-setup.conf

532

533

```
LIVE_USER_DEFAULT_GROUPS="audio cdrom dip floppy video plugdev netdev powerdev scanner ←
bluetooth fuse"
```

live-config.user-default-groups=audio,cdrom,dip,floppy,video,plugdev,netdev,powerdev,scanner,bluetooth

userlive:

535

:

536

537

```
$ lb config --bootappend-live "boot=live components username=live-user"
```

live-config #boot-time-hooks /usr/share/doc/live-config/examples/hooks passwd ( 2000-passwd)
config/includes.chroot/lib/live/config/

538

539

Live 2:

540

541

542

live locales=en\_US.UTF-8 lb config -bootappend-live locales

543

544

```
$ lb config --bootappend-live "boot=live components locales=de_CH.UTF-8"
```

545

live-config \_ () \_ . /usr/share/i18n/SUPPORTED

546

live-config console-setup -bootappend-live keyboard-layoutskeyboard-variantskeyboard-optionskeyboard-variants
/usr/share/X11/xkb/rules/base.lst :

548

```
$ egrep -i '(^!|german.*switzerland)' /usr/share/X11/xkb/rules/base.lst
! model
! layout
  ch          German (Switzerland)
! variant
  legacy      ch: German (Switzerland, legacy)
  de_noadkeys ch: German (Switzerland, eliminate dead keys)
  de_sundeadkeys ch: German (Switzerland, Sun dead keys)
  de_mac      ch: German (Switzerland, Macintosh)
! option
```

549

X:

550

551

```
$ lb config --bootappend-live "boot=live components locales=de_CH.UTF-8 keyboard-layouts=ch"
```

TypeMatrix EZ-Reach 2030 USB (Bepo ) Dvorak :

552

553

```
$ lb config --bootappend-live \
  "boot=live components locales=fr_FR.UTF-8 keyboard-layouts=fr keyboard-variants=bepo ←
  keyboard-model=tm2030usb"
```

1 keyboard-model keyboard-\* XKBMODEL XKBLAYOUTXKBVARIANTXKBOPTIONS keyboard(5) man 554  
keyboard-variants 1 keyboard-layouts (setxkbmap(1) -variant ) QWERTY Dvorak2:

555

```
$ lb config --bootappend-live \
  "boot=live components keyboard-layouts=us,us keyboard-variants=,dvorak"
```

556

CD CD-ROM

557

Live CD

558

RAM (tmpfs) RAM

559

RAM () CD/DVD Live persistence

560

persistence ( nopersistence ) (USB) live-boot(7) man :

561

GPT

562

563

(OS NTFS )

564

persistence persistence.conf persistence.conf

565

USB

566

567



```
# mkfs.ext4 -L persistence /dev/sdb1
```

ext4 {USB}#using-usb-extra-space

568

:

569

570

```
# tune2fs -L persistence /dev/sdb1 # for ext2,3,4 filesystems
```

ext4 :

571

572

```
$ dd if=/dev/null of=persistence bs=1 count=0 seek=1G # for a 1GB sized image file
$ /sbin/mkfs.ext4 -F persistence
```

/usr /usr union /mnt :

573

574

```
# cp persistence /
# mount -t ext4 /persistence /mnt
```

persistence.conf

575

576

```
# echo "/usr union" >> /mnt/persistence.conf
# umount /mnt
```

persistence Live

577

### **persistence.conf**

578

persistence persistence.conf

579

persistence.conf(5) man /dev/sdb1 ext4 APT:

580

581

```
# mkfs.ext4 -L persistence /dev/sdb1
# mount -t ext4 /dev/sdb1 /mnt
# echo "/home" >> /mnt/persistence.conf
# echo "/var/cache/apt" >> /mnt/persistence.conf
# umount /mnt
```

/home /var/cache/apt persistence.conf . and .. /lib /lib/live ()/ persistence.conf / union 582

583  
1 584  
( persistence.conf ) 12() persistence.conf persistence.conf(5) man (: ) 585  
: /home /root persistence 2 persistence.conf 1 # echo "/home" > persistence.conf12 # 586  
echo "/root" > persistence.conf persistence  
private work persistence persistence-label private persistence persistence-label=private 587  
persistence persistence-label=work  
private work persistence.conf live-boot man 588

589  
USBlive-boot **luks** Live *cryptsetup* 590

*cryptsetup* : 591

```
# apt-get install cryptsetup
```

592  
Live *cryptsetup* : 593

```
$ lb config  
$ echo "cryptsetup" > config/package-lists/encryption.list.chroot
```

594  
*cryptsetup* Live persistence persistence-encryption=luks : 595

```
$ lb config --bootappend-live "boot=live components persistence persistence-encryption=luks"
```

596  
/dev/sdc2 USB 597

USBlive-manual ls -l /dev/disk/by-id : 598

```
# cryptsetup --verify-passphrase luksFormat /dev/sdc2
```

599  
**luks live** : 600

```
# cryptsetup luksOpen /dev/sdc2 live
```

601  
: 602

```
# dd if=/dev/zero of=/dev/mapper/live
```

## Live

---

persistence 604

605

```
# mkfs.ext4 -L persistence /dev/mapper/live
```

/mnt

606

607

```
# mount /dev/mapper/live /mnt
```

persistence.conf {persistence.conf }#persistence-conf 608

609

```
# echo "/ union" > /mnt/persistence.conf
```

:

610

611

```
# umount /mnt
```

:

612

613

```
# cryptsetup luksClose live
```

Live ISO hybrid USB USBUSB Live live-boot 614



616

617

live-build *syslinux* ()

618

/usr/share/live/build/bootloaders config/bootloaders 1 config/bootloaders/isolinux **isolinux**

640x480 splash.png splash.svg

620

syslinux 0

621

iso-hybrid **isolinux.cfg** 1/105 **isolinux.cfg**

622

623

```
include menu.cfg
default vesamenu.c32
prompt 0
timeout 50
```

## ISO

624

ISO9660

625

LB\_ISO\_APPLICATION/-iso-application NAME: 128

626

LB\_ISO\_PREPARER/-iso-preparer NAME: live-build 128

627

LB\_ISO\_PUBLISHER/-iso-publisher NAME: 128

628

LB\_ISO\_VOLUME/-iso-volume NAME: IDWindows Apple Mac OS 32

629

---

# Debian

630

## Debian

631

Live Debian

632

Debian - Debian d-i

633

## Debian

634

3:

635

**Debian** : Live () Debian CD Debian initrd Live

636

*debootstrap* .deb Debian Debian

637

preseed Debian preseed live-build

638

**LiveDebian** : Live () Debian initrd

639

*debootstrap* Live live-installer udeb

640

Debian

641

: Live Live live-installer/enable=false preseed live-installer

642

**Debian** : Debian d-i debian-installer-launcher

643

live-build Debian lb config Live d-i :

644

645

```
$ lb config --architectures i386 --linux-flavours 586 \
  --debian-installer live
$ echo debian-installer-launcher >> config/package-lists/my.list.chroot
```

## preseed Debian

646

「<https://www.debian.org/releases/stable/i386/apb.html>」 Debian Bpreseed live-build preseed.cfg  
 config/includes.installer/ en\_US preseed :

647

648

```
$ echo "d-i debian-installer/locale string en_US" \
  >> config/includes.installer/preseed.cfg
```

## Debian

649

d-i udeb config/packages.binary/ {Live/chroot} #live-chroot-local-includes config/includes.installer  
 initrd







653

GPL 3 654

{ }#contact 655

`${project}Git{Git}#git-repositories debian debian-next 2debian-next live-bootlive-
 buildlive-configlive-imageslive-manuallive-tools` 
 656

fast-forward 657

658

659

660

661

Fixing/Adding/Removing/Correcting/Translating/... 662

changelog 180 663

664

665

live-manual live-manual { }#how-to-contribute 666

:

667

668

```

$ mkdir -p ~/.ssh/keys
$ wget http://live-systems.org/other/keys/git@live-systems.org -O ~/.ssh/keys/git@live-systems.↵
  org
$ wget http://live-systems.org/other/keys/git@live-systems.org.pub -O ~/.ssh/keys/git@live-↵
  systems.org.pub
$ chmod 0600 ~/.ssh/keys/git@live-systems.org*
  
```

openssh-client :

669

670

```

$ cat >> ~/.ssh/config << EOF
Host live-systems.org
  Hostname live-systems.org
  User git
  IdentitiesOnly yes
  IdentityFile ~/.ssh/keys/git@live-systems.org
EOF
  
```

ssh live-manual :

671

672

```

$ git clone git@live-systems.org:/live-manual.git
$ cd live-manual && git checkout debian-next
  
```

Git:

673

674

```
$ git config user.name "John Doe"  
$ git config user.email john@example.org
```

**: debian-next**

675

676

677

```
$ git commit -a -m "Adding a section on applying patches."
```

:

678

679

```
$ git push
```



	681
Live -	682
:	683
「 <a href="http://live-systems.org/">http://live-systems.org/</a> 」	684
live-buildlive-bootlive-configlive-tools (live-build 4 4.x live-build)	685
() live-buildlive-bootlive-configlive-tools Live	686
	687
Debian <b>(testing)</b> Debian <b>(unstable)</b>	688
<b>(testing) (unstable) (stable)} live-build *{ (stable)</b>	689
「 <a href="http://live-systems.org/">http://live-systems.org/</a> 」 status	690
2: <b>(testing) (unstable) (unstable) (testing) (unstable) ( APTPIN )</b>	691
	692
Live	693
	694
()	695
	696
live-build	697
:	698
	699
	700
live-build	701
<i>debootstrap</i>	702
Live	703
Live	704
Live live-boot	705
Live live-config	706

## Live

---

Live live-tools	707
tee auto/build ({}#managing-a-configuration )	708
	709
<pre># lb build 2&gt;&amp;1   tee build.log</pre>	
live-boot live-config /var/log/live/	710
config/ tar () () lb config -dump ( config/ )	711
LC_ALL=C LC_ALL=en_US live-build	712
	713
	714
	715
Live debian-live	716
	717
	718
live-build <i>debootstrap</i> Debian Debian ()	719
Live Debian	720
	721
live-build Debian Debian	722
Live Debian - Live <i>debootstrap</i> lbbootstrap -debug	723
	724
	725
{ }#collect-information /	726
	727
Live Live :	728

## Live

---

	729
	730
Live	731
live-buildlive-bootlive-configlive-tools	732
	733
<code>\${project}</code> (BTS) <code>「<a href="https://bugs.debian.org/">https://bugs.debian.org/</a>」 reportbug</code>	734
live-build live-boot live-config debian-live	735
(Ubuntu ) Debian Debian Debian Debian BTS	736





	738
Live	739
	740
Bash	741
POSIX - 'foo' \$(foo)	742
'sh -n' 'checkbashisms'	743
'set -e'	744

	745
	746
	747

80	748
Linux :	749
:	750
	751

```
if foo; then
    bar
fi
```

:	752
	753

```
if foo
then
    bar
fi
```

:	754
:	755
	756

```
Foo () {
    bar
}
```

:	757
	758

## Live

---

```
Foo ()  
{  
    bar  
}
```

759

760

```
live-build LB_
```

761

```
live-build  
_LB_
```

762

```
live-build
```

763

```
-  
_LB_
```

```
live-config LIVE_
```

764

```
live-config _
```

765

```
{ } $FOO ${FOO}
```

766

```
: ${FOO} "${FOO}"
```

767

```
:
```

768

```
:
```

769

770

```
F00=bar
```

```
:
```

771

772

```
F00="bar"
```

```
:
```

773

```
:
```

774

775

```
if [ -f "${FOO}"/foo/"${BAR}"/bar ]  
then  
    foobar  
fi
```

```
:
```

776

777

```
if [ -f "${FOO}/foo/${BAR}/bar" ]
then
    foobar
fi
```

778

```
sed |sed -e 's|foo|bar|'
```

779

```
test []if [ -x /bin/foo ]; ...if test -x /bin/foo; ...
```

780

```
test case
```

781

782



784

Debian \${project}

785

786

Debian Live Live

787

debian debian-security debian-live buildd

788

( debian-live---.iso)

789

debian-cd (udeb )

790

cdimage.debian.org

791

792

debian debian-security

793

cdimage.debian.org

794

795

## Debian

796

Debian ftp.debian.org archive.debian.org chroot Live

797

798

799

800

```
$ sed \  
-e 's|@MAJOR@|9.0|g' \  
-e 's|@MINOR@|9.0.1|g' \  
-e 's|@CODENAME@|stretch|g' \  
-e 's|@ANNOUNCE@|2017/msgXXXXX.html|g'
```

801

802

```
Updated Live @MAJOR@: @MINOR@ released
```

```
The Live Systems Project is pleased to announce the @MINOR@ update of the  
Live images for the stable distribution Debian @MAJOR@ (codename "@CODENAME@").
```

```
The images are available for download at:
```

```
<http://live-systems.org/cdimage/release/current/>
```

and later at:

<<http://cdimage.debian.org/cdimage/release/current-live/>>

This update includes the changes of the Debian @MINOR@ release:

<<https://lists.debian.org/debian-announce/@ANNOUNCE@>>

Additionally it includes the following Live-specific changes:

- \* [LIVE ]
- \* [LIVE ]
- \* [ ]

### About Live Systems

-----

The Live Systems Project produces the tools used to build official live systems and the official live images themselves for Debian.

### About Debian

-----

The Debian Project is an association of Free Software developers who volunteer their time and effort in order to produce the completely free operating system Debian.

### Contact Information

-----

For further information, please visit the Live Systems web pages at <<http://live-systems.org/>>, or contact the Live Systems team at <[debian-live@lists.debian.org](mailto:debian-live@lists.debian.org)>.

---

# Git

803

## Git

804

`${project}` 「<http://live-systems.org/gitweb/>」 `git URL : ://live-systems.org/git/ live-manual`

806

```
$ git clone git://live-systems.org/git/live-manual.git
```

807

```
$ git clone https://live-systems.org/git/live-manual.git
```

808

```
$ git clone http://live-systems.org/git/live-manual.git
```

```
git@live-systems.org:/  
live-manual ssh
```

809

810

811

```
$ git clone git@live-systems.org:live-manual.git
```

**gitdebian debian-next**

812

**debian debian-next**

813

814

```
$ git checkout debian-next
```

**debian-next** fast-forward **debian** `git pull -rebase`

815

816

Live **debian-next** `mrconfig git mr`

817

818

```
$ mr bootstrap http://live-systems.org/other/mr/mrconfig
```

Debian **debian-next** live-images {Git}#clone-configuration-via-git

819







Live Live 3

```
{ }#requirements {live-build }#installing-live-build live-build
```

```
{ }#distribution-mirrors-build-time lb config /etc/live/build.conf LB_MIRROR_* :
```

```
LB_MIRROR_BOOTSTRAP="http://mirror/debian/"  
LB_MIRROR_CHROOT_SECURITY="http://mirror/debian-security/"  
LB_MIRROR_CHROOT_BACKPORTS="http://mirror/debian-backports/"
```

**1:**

: live-build

live-build base (Xorg ) Live ISO hybrid Live

:

```
$ mkdir tutorial1 ; cd tutorial1 ; lb config
```

config/

tee

```
# lb build 2>&1 | tee build.log
```

live-image-i386.hybrid.iso ISO hybrid Qemu ISO VirtualBox ISO {ISO}#burning-iso-  
image USB ISO hybrid USB

**2:**

:

Live

```
$ mkdir tutorial2  
$ cd tutorial2  
$ lb config  
$ echo "task-lxde-desktop iceweasel" >> config/package-lists/my.list.chroot
```

```
LXDE config/includes.chroot/etc/iceweasel/profile/ 841
```

```
1: 842
```

```
843
```

```
# lb build 2>&1 | tee build.log
```

```
{ 1}#tutorial-1 844
```

```
3: 845
```

```
: USB 846
```

```
git{}#managing-a-configuration auto 847
```

```
848
```

```
849
```

```
$ mkdir -p tutorial3/auto  
$ cp /usr/share/doc/live-build/examples/auto/* tutorial3/auto/  
$ cd tutorial3
```

```
auto/config: 850
```

```
#!/bin/sh
```

```
lb config noauto \  
  --architectures i386 \  
  --linux-flavours 686-pae \  
  "${@}"
```

```
lb config auto/config: 852
```

```
853
```

```
$ lb config
```

```
: 854
```

```
855
```

```
$ echo "task-lxde-desktop iceweasel xchat" >> config/package-lists/my.list.chroot
```

```
-architectures i386 amd64 32 -linux-flavours 686-pae lxde iceweasel xchat 856
```

```
: 857
```

```
858
```

```
# lb build
```

22>&1 | tee build.log auto/build

859

( 1 ) git auto :

860

861

```
$ git init
$ cp /usr/share/doc/live-build/examples/gitignore .gitignore
$ git add .
$ git commit -m "Initial import."
```

**2**

862

*vlc*

863

lb clean lb build

864

865

```
# lb clean
```

*vlc* config/package-lists/my.list.chroot :

866

867

```
$ echo vlc >> config/package-lists/my.list.chroot
```

:

868

869

```
# lb build
```

:

870

871

```
$ git commit -a -m "Adding vlc media player."
```

config/ config LB\_\* lb clean auto lb config

872

Live

873

**VNC**

874

: live-build VNC

875

2: 1 live-build Packages ( ) 2 *xorg gdm3 metacity xvnc4viewer*

876

877

```
$ mkdir vnc-kiosk-client
$ cd vnc-kiosk-client
$ lb config -a i386 -k 686-pae --apt-recommends false
$ echo '! Packages Priority standard' > config/package-lists/standard.list.chroot
$ echo "xorg gdm3 metacity xvnc4viewer" > config/package-lists/my.list.chroot
```

APT

878

*apt-cache* :

879

880

```
$ apt-cache depends live-config live-boot
```

live-config live-boot : user-setup sudoRAM live-tools Live eject :

881

882

```
$ echo "live-tools user-setup sudo eject" > config/package-lists/recommends.list.chroot
```

```
/etc/skel config/includes.chroot .xsession metacity xvncviewer 192.168.1.2 5901  
:
```

883

884

```
$ mkdir -p config/includes.chroot/etc/skel  
$ cat > config/includes.chroot/etc/skel/.xsession << EOF  
#!/bin/sh  
  
/usr/bin/metacity &  
/usr/bin/xvncviewer 192.168.1.2:1  
  
exit  
EOF
```

:

885

886

```
# lb build
```

887

## 128MB USB

888

: 128MB USB

889

128MB *localepurge* -debootstrap-options

890

891

```
$ lb config --apt-indices false --apt-recommends false --debootstrap-options "--variant=minbase<->  
" --firmware-chroot false --memtest none
```

-apt-recommends false 2{APT} #tweaking-apt-to-save-space

892

893

```
$ echo "user-setup sudo" > config/package-lists/recommends.list.chroot
```

:

894

895

```
# lb build 2>&1 | tee build.log
```

110MB { 1}#tutorial-1 192MB

896

```
-apt-indices false APT Live apt apt-get update -apt-recommends false -debootstrap-options 897
"-variant=minbase" -firmware-chroot false -memtest none
```

```
: /usr/share/doc/live-build/examples/hooks stripped.hook.chroot 62MB debootstrap 898
```

## GNOME

899

: GNOME

900

i386 iso-hybrid GNOME GNOME Debian

901

live-build grep-dctrl tasksel-data :

902

903

```
# apt-get install dctrl-tools tasksel-data
```

904

905

```
$ grep-dctrl -FTest-lang de /usr/share/tasksel/descs/debian-tasks.desc -sTask
Task: german
```

:

906

907

```
$ grep-dctrl -FEnhances german /usr/share/tasksel/descs/debian-tasks.desc -sTask
Task: german-desktop
Task: german-kde-desktop
```

**de\_CH.UTF-8 ch {}#using-metapackages task- :**

908

909

```
$ mkdir live-gnome-ch
$ cd live-gnome-ch
$ lb config \
  -a i386 \
  --bootappend-live "boot=live components locales=de_CH.UTF-8 keyboard-layouts=ch" \
  --debian-installer live
$ echo '! Packages Priority standard' > config/package-lists/standard.list.chroot
$ echo task-gnome-desktop task-german task-german-desktop >> config/package-lists/desktop.list.chroot
$ echo debian-installer-launcher >> config/package-lists/installer.list.chroot
```

Live *debian-installer-launcher* 586

910







	913
	914
Live	915
: {}#how-to-contribute	916
	917
	918
	919
	920
	921
	922
	923
	924
Live	925
	926
he ()she ()s/he s(he) ()they ()	927
	928
	929
	930
	931
	932
	933
	934
()	935
	936
changelog!	937
	938
	939
(100)	940
() 2	941

	942
	943
	944
2	945
!	946
	947
	948
IRC	949
	950
	951
Live chroot VM	952
	953
	954
	955
	956
	957
	958
	959
	960
	961
live-manual GNU GPL ()	962
	963
- !	964
-	965
- \${testing} sid spellmake spell	966
-	967
	968
11.11.1.11.1.2 ... 1.21.2.11.2.2 ... 22.1 ...	969
First ()second (2)third (3) ... First ()Then ()After that ()Finally ()...	970
	971

live-manual 972  
└─ SiSU ── {SiSU } [http://www.sisudoc.org/sisu/en/html/sisu\\_manual/markup.html](http://www.sisudoc.org/sisu/en/html/sisu_manual/markup.html)

973  

```
$ sisu --help markup
```

974  
- /:  
975  
976

```
*{foo}*  !{foo}!
```

**foo foo** 977  
- : 978  
979

```
/{foo}/
```

*foo* Debian 980  
- : 981  
982

```
#{foo}#
```

foo 983  
- : 984  
985

```
code{  
  $ foo  
  # bar  
}code
```

986  
987

```
$ foo  
# bar
```

code{ }code 988

	989
Live	990
Debian	991
: {}#how-to-contribute {}#translation	992
	993
	994
	995
<b>po #</b>	996
<i>TN, Translator's Note ()</i>	997
() ()	998
	999
you	1000
	1001
	1002
	1003
<b>potpo</b>	1004
	1005
100% .po	1006
	1007
Enter	1008
<b>n</b>	1009
	1010
:	1011
- ()	1012
-	1013
-	1014
- (::)	1015
-	1016
-	1017