

FreedomBox

Libre Personal Server



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Outline

- Brief introduction to the project
- Current status / demo
- Technical overview
- How you can help
- Questions

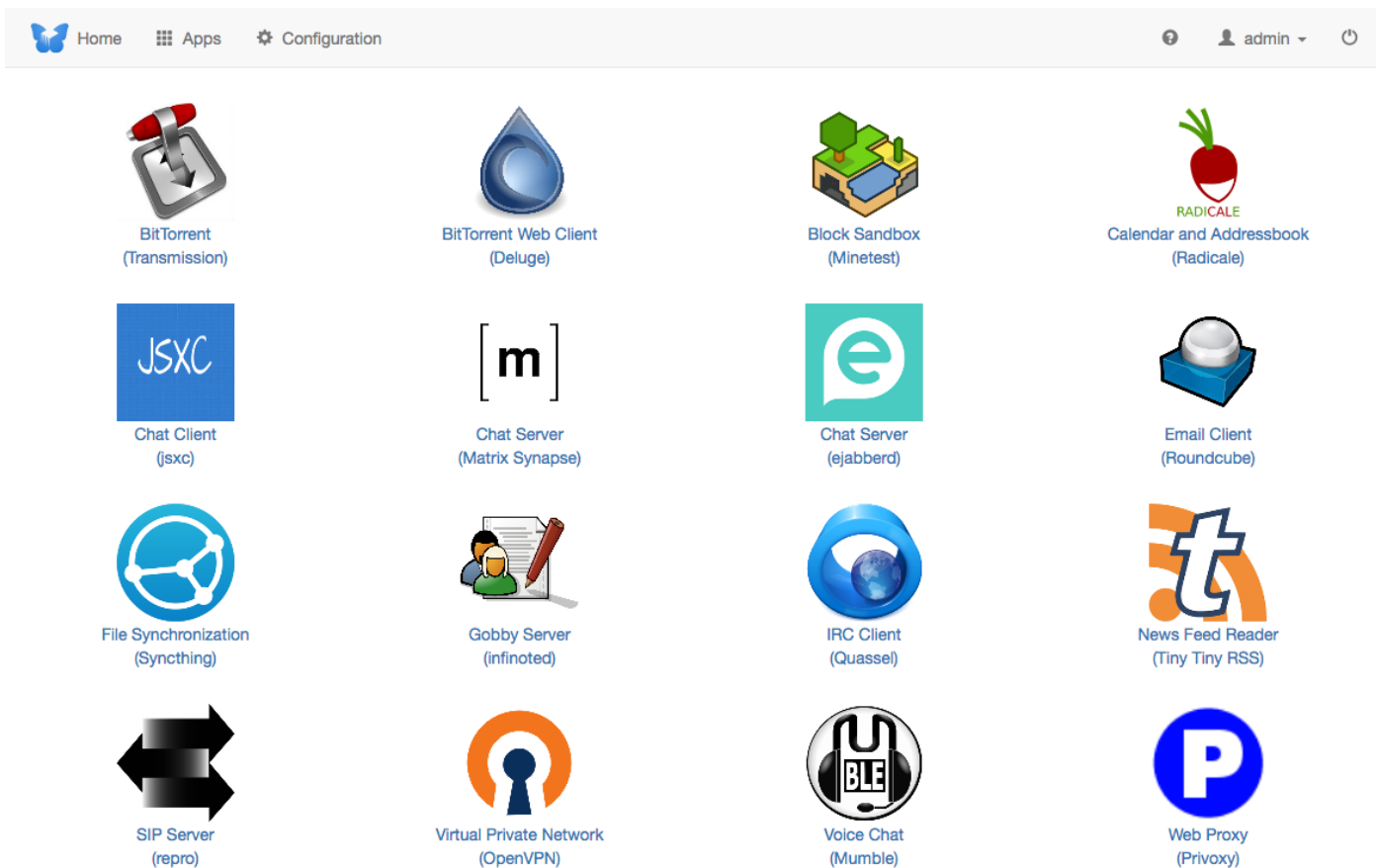


What is FreedomBox?

- A Debian project and pure blend
- Make it easy to run a personal server
- Replace 3rd party services
- Goal: zero admin



What it looks like



Release status

- 1st stable release in Stretch
- Live images for 11 devices / VMs
- Turn any Debian system into a FreedomBox:
 - apt install freedombox-setup
 - then run setup script
 - <https://wiki.debian.org/FreedomBox/Hardware/Debian>



Features in Stable

- Infinoted
- Ikiwiki
- XMPP
- SIP
- Mumble
- Radicale
- Let's Encrypt
- Privoxy
- OpenVPN
- Tor
- Quassel
- Bittorrent



Upcoming features

- Syncthing
- Matrix synapse homeserver
- Tahoe-LAFS
- Diaspora*
- SSO with auth-pubtkk



Supported hardware

- Live images available for:
 - A20 OLinuXino Lime, Lime2, Micro
 - Cubieboard2, Cubietruck
 - Beaglebone Black, pcDuino3
 - Raspberry Pi 2 (with non-free firmware)
 - amd64, i386, Qemu, Virtualbox
- Other devices that can run Debian



Demo



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Packages: freedombox-setup

- Depends: plinth, apache2, ...
- setup scripts
 - enable apache modules
- first boot script
 - configure network
 - generate keys



Packages: plinth

- web interface
- python / django
- modular: one module per application
 - installs packages using apt
 - configures packages using debconf/augeas
 - service status and basic config forms



Packages: freedom-maker

- live image builder
- uses vmdebootstrap
- freedombox-customize script
- hardware-specific setup



Infrastructure

- apache2
- augeas
- avahi
- certbot
- etckeeper
- ez-ipupdate
- firewalld
- network-manager
- ntp
- snapper
- openldap
- pagekite
- tor
- unattended-upgrades



How to help: Packaging

- Web apps

- many are not in Debian

<https://wiki.debian.org/FreedomBox/LeavingTheCloud>

- Package setup/config

- sane defaults

- FreedomBox packaging team

- freedombox-pkg-team@lists.alioth.debian.org



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More ways to help

- Reproducible builds
 - https://tests.reproducible-builds.org/debian/unstable/amd64/pkg_set_freedombox.html
- Security hardening
 - systemd service files
 - selinux/apparmor



More ways to help

- Hardware support
- Documentation
 - <https://wiki.debian.org/FreedomBox/Manual>
- Translations
 - <https://hosted.weblate.org/projects/freedombox/plinth/>



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Issue: Package configuration

- modified conffiles / upgrade prompts
 - unattended upgrade not possible
 - our users won't know which version to keep
- generate config files in postinst
 - maintainer handles config merge on upgrade
- debconf



Other things

- Backup/restore application data?
- Promoting blends
- Official live image builds?
- New home for Plinth upstream dev



Links

- Landing page: freedombox.org
- Wiki: wiki.debian.org/FreedomBox
- Mailing List:
 - freedombox-discuss@lists.alioth.debian.org
- IRC: [#freedombox](#) on OFTC

