Install AirMail

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Chapter 1. Install AirMail on Raspberry Pi Bookworm arm64

AirMail is 32-bit Windows application. So we need to install box86 to emulate 32-bit Intel processor, and we would need to install wine86 to emulate Windows. box86 being 32-bit would need armhf (32-bit) runtime libraries.

Chapter 2. Step 1. Box86

```
sudo apt update

sudo apt-get -y install build-essential mono-runtime git cmake cabextract \
  gcc-arm-linux-gnueabihf libc6-dev-armhf-cross zenity

sudo dpkg --add-architecture armhf
sudo apt-get -y install gcc-arm-linux-gnueabihf

sudo apt update

sudo apt-get -y install libegl-mesa0:armhf libgdm1:armhf libgl1-mesa-dri:armhf \
  libglapi-mesa:armhf libgles2-mesa:armhf libglu1-mesa:armhf libglx-mesa0:armhf \
  mesa-va-drivers:armhf mesa-vdpau-drivers:armhf mesa-vulkan-drivers:armhf \
  libsdl1.2debian:armhf libsdl2-2.0-0:armhf libudev1:armhf libllvm11:armhf \
  linux-libc-dev:armhf libncurses6:armhf libc6:armhf  libx11-6:armhf libgdk-pixbuf2.0-
0:armhf \
  libgtk2.0-0:armhf libstdc++6:armhf libsdl2-2.0-0:armhf mesa-va-drivers:armhf \
  libsdl1.2-dev:armhf libsdl-mixer1.2:armhf libpng16-16:armhf libcal3d12v5:armhf \
  libsdl2-net-2.0-0:armhf libopenal1:armhf libsdl2-image-2.0-0:armhf \
  libvorbis-dev:armhf libcurl4:armhf libjpeg62:armhf  libudev1:armhf \
  libgl1-mesa-dev:armhf  libx11-dev:armhf libsmpeg0:armhf libavcodec58:armhf \
  libavformat58:armhf libswscale5:armhf libsdl2-image-2.0-0:armhf \
  libsdl2-mixer-2.0-0:armhf gcc-arm-linux-gnueabihf

sudo wget https://ryanfortner.github.io/box86-debs/box86.list \
  -O /etc/apt/sources.list.d/box86.list
wget -qO- https://ryanfortner.github.io/box86-debs/KEY.gpg | gpg --dearmor \
  | sudo tee /usr/share/keyrings/box86-debs-archive-keyring.gpg
sudo apt update && sudo apt-get -y install box86-rpi4arm64:armhf
```

> ℹ️ for raspberry pi5 you need to switch kernel page size to 4k. See: https://github.com/
> ptitSeb/box86/issues/912#issuecomment-1879902474

in /boot/firmware/config.txt:

```
# To switch kernel page size to 4k
kernel=kernel8.img
```

and reboot

Chapter 3. Step 2. Wine86

```
# Wine
sudo apt-get -y install libasound2:armhf libc6:armhf libglib2.0-0:armhf \
 libgphoto2-6:armhf libgphoto2-port12:armhf libgstreamer-plugins-base1.0-0:armhf \
 libgstreamer1.0-0:armhf libldap-common:armhf libopenal1:armhf libpcap0.8:armhf \
 libpulse0:armhf libsane1:armhf libudev1:armhf libunwind8:armhf libusb-1.0-0:armhf \
 libvkd3d1:armhf libx11-6:armhf libxext6:armhf ocl-icd-libopencl1:armhf \
 libasound2-plugins:armhf libncurses6:armhf libtinfo5:armhf libasound2:armhf \
 libc6:armhf libglib2.0-0:armhf libgphoto2-6:armhf libgphoto2-port12:armhf \
 libgstreamer-plugins-base1.0-0:armhf libgstreamer1.0-0:armhf libopenal1:armhf \
 libpcap0.8:armhf libpulse0:armhf libsane1:armhf libudev1:armhf libunwind8:armhf \
 libusb-1.0-0:armhf libvkd3d1:armhf libx11-6:armhf libxext6:armhf ocl-icd-
libopencl1:armhf \
 libasound2-plugins:armhf libncurses6:armhf libmpeg2-4:armhf libmpeg2encpp-2.1-0:armhf \
 libtinfo6:armhf libmpg123-0:armhf libtinfo5:armhf libxslt1.1:armhf

cd ~/Downloads

wget https://dl.winehq.org/wine-builds/debian/dists/bookworm/main/binary-i386/wine-
stable-i386_6.0.4~bookworm-1_i386.deb
wget https://dl.winehq.org/wine-builds/debian/dists/bookworm/main/binary-i386/wine-
stable_6.0.4~bookworm-1_i386.deb
dpkg-deb -xv wine-stable-i386_6.0.4~bookworm-1_i386.deb wine-installer
dpkg-deb -xv wine-stable_6.0.4~bookworm-1_i386.deb wine-installer

rm -rf ~/wine
mv ~/Downloads/wine-installer/opt/wine* ~/wine
rm -rf wine-installer
cd ~

sudo ln -s ~/wine/bin/wine /usr/local/bin/wine
sudo ln -s ~/wine/bin/wineboot /usr/local/bin/wineboot
sudo ln -s ~/wine/bin/winecfg /usr/local/bin/winecfg
sudo ln -s ~/wine/bin/wineserver /usr/local/bin/wineserver
sudo chmod +x /usr/local/bin/wine /usr/local/bin/wineboot /usr/local/bin/winecfg
/usr/local/bin/wineserver

# Wine tricks are optional
wget https://raw.githubusercontent.com/Winetricks/winetricks/master/src/winetricks
sudo mv winetricks /usr/local/bin/
sudo chmod +x /usr/local/bin/winetricks

sudo apt-get -y install winbind
```

Chapter 4. Step 3. Wine86 config

```
# wait for it to complete. It takes a while and opens and closes some windows
wineboot --init

# Optional step. Where you can choose windows version, font sizes, etc in GUI window
winecfg
```

You can increase your font size if it is too small under 'Graphics' menu.

Chapter 5. Step 4. Download AirMail

```
cd ~
wget http://siriuscyber.net/sailmail/amsm35054b.exe
```

Chapter 6. Step 5. Install AirMail

```
cd ~
wine amsm35054b.exe
```

Chapter 7. Step 6. Run AirMail

```
# To run AirMail
cd ~/.wine/drive_c/Program\ Files/Airmail
wine Airmail3.exe
```

Go into Tools→Options→Spellcheck and uncheck all boxes. (This reportedly fixes some typing re-draw issues).

If you have two 'Radio' menu entries in applications menu.

```
rm ~/.local/share/desktop-directories/wine-Programs-Radio.directory
```