

Keepass2

KeePass is a the free, open source, light-weight and easy-to-use password manager/password safe.

It can be installed under ubuntu/mint using

```
sudo add-apt-repository ppa:ubuntuhandbook1/keepass2
sudo apt update
sudo apt-get install keepass2 ca-certificates libmono-system-windows-
forms4.0-cil
```

Uninstall instructions:

```
sudo apt remove --autoremove keepass2
sudo add-apt-repository --remove ppa:ubuntuhandbook1/keepass2
```

Keepass2.exe.config error

```
sudo apt-get install mono-utils
monodis --assembly /usr/lib/keepass2/KeePass.exe | grep Version | sed
's|Version:\ *\[0-9\\.]*\|'$|1|'
sudo vi /usr/lib/keepass2/KeePass.exe.config
#replace newVersion number in file
```

Oneliner:

```
sudo sed -i 's/newVersion="\[0-9\\.]*"/newVersion='$(monodis --assembly
/usr/lib/keepass2/KeePass.exe | grep Version | sed 's|Version:\
*\[0-9\\.]*\|'$|1|')'\ "/' /usr/lib/keepass2/KeePass.exe.config
```

Auto patching of config file, create shell script and apt pre-inst hook (no post inst hook available as per

<https://askubuntu.com/questions/869219/how-can-i-run-a-script-after-a-specific-package-is-upgraded>):

</usr/local/bin/fix-keepass2-config.sh>

```
#!/bin/bash
if grep -q keepass2
then
    if [ ! -f /usr/bin/monodis ]
    then
        echo "monodis is required to fix the keepass2 config file."
        echo "Please install it via apt-get install mono-utils"
        exit 1
    else
        echo "Scheduling config update for keepass2 in 5 minutes..."
        (
            sleep 300;

```

```
sed -i 's/newVersion="\([0-9\.]*\)"/newVersion='${monodis --
assembly /usr/lib/keepass2/KeePass.exe | grep Version | sed
's|Version:\ *\[0-9\.]*\)$|\\"1|'\}'\"/'
/usr/lib/keepass2/KeePass.exe.config
) &
fi
fi
```

[/etc/apt/apt.conf.d/99-keepass2-hook](#)

```
DPkg::Pre-Install-Pkgs {"usr/local/bin/fix-keepass2-config.sh"};
DPkg::Tools::Options::usr/local/bin/fix-keepass2-config.sh::Version
"1";
```

```
sudo chmod 755 /usr/local/bin/fix-keepass2-config.sh
```

Manual update to latest Windows version

The keepass2 PPAs have not been updated for quite a while. To use the latest version, follow these instructions (after installing the PPA version):

- Download the portable version zip file from official link <https://keepass.info/download.html>
- Close the KeePass2 application
- Make a copy of the /usr/lib/keepass2 folder as backup
- Unzip the portable version and copy the file KeePass.exe to /usr/lib/keepass2 as root

Plugins under Linux

Keepass compiles plugins and requires the complete mono environment in order to do this.

```
apt-get install mono-complete
```

Once plugins are copied into the /usr/lib/keepass2 directory, ensure to chmod 666 the plugin file.

for the googlesync plugin, the following is required:

download sync plugin, then extract the zip from

http://sourceforge.net/projects/kp-googlesync/?source=typ_redirect

```
sudo cp GoogleSyncPlugin.plgx /usr/lib/keepass2
sudo apt-get install liblog4net1.2-cil
sudo cp /usr/lib/cli/log4net-1.2/log4net.dll /usr/lib/keepass2
sudo cp /usr/lib/mono/2.0/System.ServiceModel.Web.dll /usr/lib/keepass2
possibly also required is the import of the mozilla root certificates:
mozroots --import --sync
```

Google Drive Sync

```
apt install golang

vi ~/.bashrc
export GOPATH=$HOME/gopath
export PATH=$GOPATH:$GOPATH/bin:$PATH

source ~/.bashrc

go get -u github.com/odeke-em/drive/cmd/drive

mkdir ~/gdrive
drive init ~/gdrive
open url, log into google, authorise drive, copy and paste authorization
code.

cd ~/gdrive
drive pull Wulf.kdbx

mkdir ~/Keepass/
```

```
vi ~/Keepass/keepass_trigger_load.sh
```

```
#!/bin/bash
cd ~/gdrive
drive pull -ignore-conflict -quiet Wulf.kdbx
```

```
vi ~/keepass_trigger_save.sh:
```

```
#!/bin/bash
cp ~/Keepass/Wulf.kdbx ~/gdrive
cd ~/gdrive
drive push -ignore-conflict -quiet Wulf.kdbx

chmod 777 keepass_trigger_*.sh
```

Keepass Trigger Config "Save to Google Drive" / "Load from Google Drive". Copy the xml to clipboard, then in Keepass go to tools → triggers → tools → Paste from clipboard. Adjust the paths in the triggers.

```
<?xml version="1.0" encoding="utf-8"?>
<TriggerCollection xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Triggers>
    <Trigger>
      <Guid>DWgF+SL63U+GAsBJQXhahg==</Guid>
      <Name>Save to Google Drive</Name>
      <Comments>When the local copy is saved, the server copy will be
```

```
pulled and synchronized with the local copy. The local copy will then be
copied to the local Google Drive folder and pushed to the server.</Comments>
  <Events>
    <Event>
      <TypeGuid>s6j9/ngTSmqcXdW6hDqbjg==</TypeGuid>
      <Parameters>
        <Parameter>0</Parameter>
        <Parameter>/home/wuff/KeePass/Wulf.kdbx</Parameter>
      </Parameters>
    </Event>
  </Events>
  <Conditions />
  <Actions>
    <Action>
      <TypeGuid>tkamn96US7mbrjykwQ6g==</TypeGuid>
      <Parameters>
        <Parameter />
        <Parameter>0</Parameter>
      </Parameters>
    </Action>
    <Action>
      <TypeGuid>2uX40wcwTB0e7y66y27kxw==</TypeGuid>
      <Parameters>
<Parameter>/home/wuff/KeePass/keepass_trigger_load.sh</Parameter>
        <Parameter />
        <Parameter>True</Parameter>
        <Parameter>0</Parameter>
        <Parameter />
      </Parameters>
    </Action>
    <Action>
      <TypeGuid>Iq135Bd4Tu2ZtFcdAr0tTQ==</TypeGuid>
      <Parameters>
        <Parameter>/home/wuff/gdrive/Wulf.kdbx</Parameter>
        <Parameter />
        <Parameter />
      </Parameters>
    </Action>
    <Action>
      <TypeGuid>2uX40wcwTB0e7y66y27kxw==</TypeGuid>
      <Parameters>
<Parameter>/home/wuff/KeePass/keepass_trigger_save.sh</Parameter>
        <Parameter />
        <Parameter>False</Parameter>
        <Parameter>0</Parameter>
        <Parameter />
      </Parameters>
    </Action>
    <Action>
      <TypeGuid>tkamn96US7mbrjykwQ6g==</TypeGuid>
      <Parameters>
```

```

        <Parameter />
        <Parameter>1</Parameter>
    </Parameters>
</Action>
</Actions>
</Trigger>
<Trigger>
    <Guid>P0hA77GdHU6Hy6Pwl7pf/w==</Guid>
    <Name>Load from Google Drive</Name>
    <Comments>When the local copy is opened, the server copy will be
pulled and synchronized with the local copy.</Comments>
    <Events>
        <Event>
            <TypeGuid>5f8TBow4QYm5BvaeKztApw==</TypeGuid>
            <Parameters>
                <Parameter>0</Parameter>
                <Parameter>/home/wuff/Keepass/Wulf.kdbx</Parameter>
            </Parameters>
        </Event>
    </Events>
    <Conditions />
    <Actions>
        <Action>
            <TypeGuid>tkamn96US7mbrjykwQ6g==</TypeGuid>
            <Parameters>
                <Parameter />
                <Parameter>0</Parameter>
            </Parameters>
        </Action>
        <Action>
            <TypeGuid>2uX40wcwTB0e7y66y27kxw==</TypeGuid>
            <Parameters>
<Parameter>/home/wuff/Keepass/keepass_trigger_load.sh</Parameter>
                <Parameter />
                <Parameter>True</Parameter>
                <Parameter>0</Parameter>
                <Parameter />
            </Parameters>
        </Action>
        <Action>
            <TypeGuid>Iq135Bd4Tu2ZtFcdAr0tTQ==</TypeGuid>
            <Parameters>
                <Parameter>/home/wuff/gdrive/Wulf.kdbx</Parameter>
                <Parameter />
                <Parameter />
            </Parameters>
        </Action>
        <Action>
            <TypeGuid>tkamn96US7mbrjykwQ6g==</TypeGuid>
            <Parameters>
                <Parameter />

```

```
        <Parameter>1</Parameter>
      </Parameters>
    </Action>
  </Actions>
</Trigger>
</Triggers>
</TriggerCollection>
```

Install Keepass2

Keepass2 is available in the regular debian repositories.

```
sudo apt-get install keepass2 ca-certificates-mono
```

For the Google Sync Plugin, download it from <http://keepass.info>, then extract the zip file and copy the plgx file into the keepass plugins folder:

```
sudo cp GoogleSyncPlugin.plgx /usr/lib/keepass2/Plugins/
sudo chmod 666 /usr/lib/keepass2/Plugins/GoogleSyncPlugin.plgx
```

Google Sync Plugin full install

```
cd /tmp
wget wget
https://sourceforge.net/projects/kp-goglesync/files/GoogleSyncPlugin-2.x/GoogleSyncPlugin-2.1.2.zip
unzip GoogleSyncPlugin-2.1.2.zip
unzip GoogleSyncPlugin-2.1.2.zip GoogleSyncPlugin.plgx
rm GoogleSyncPlugin-2.1.2.zip
sudo mkdir -p /usr/lib/keepass2/Plugins/
sudo mv GoogleSyncPlugin.plgx /usr/lib/keepass2/Plugins/
sudo chmod 666 /usr/lib/keepass2/Plugins/GoogleSyncPlugin.plgx

wget
http://mirror.vorboss.net/apache//logging/log4net/binaries/log4net-2.0.8-bin-newkey.zip
unzip log4net-2.0.8-bin-newkey.zip
sudo cp log4net-2.0.8/bin/mono/2.0/release/log4net.dll /usr/lib/keepass2/
sudo chown root:root /usr/lib/keepass2/log4net.dll
sudo chmod 644 /usr/lib/keepass2/log4net.dll
sudo cp /usr/lib/mono/2.0/System.ServiceModel.Web.dll /usr/lib/keepass2/
sudo chmod 644 /usr/lib/keepass2/System.ServiceModel.Web.dll
```

set google sync plugin to sync both on saving and opening

KeeAutoExec plugin

This plugin automatically opens additional databases.

<https://keepass.info/plugins.html#keeautoexec>

Installation:

```
wget https://keepass.info/extensions/v2/keeautoexec/KeeAutoExec-2.6.zip
sudo mkdir -p /usr/lib/keepass2/Plugins/
sudo unzip KeeAutoExec-2.6.zip -d /usr/lib/keepass2/Plugins/
rm KeeAutoExec-2.6.zip
```

Then restart keepass

To use:

- Create a new group in your database and name it “AutoOpen” (without the quotes).
- Each non-expired entry in this group corresponds to a database that should be opened automatically when the current database is opened. The fields of each entry specify the following:
 - Title: Ignored by the plugin; can be used for comments.
 - User name: Must contain the path to the key file, if one should be used. The path can be either absolute or relative to the directory containing KeePass.exe.
 - Password: The master password for the database to open. If no password is required, leave this field empty.
 - URL: Path to the database file to open. The path can be either absolute or relative to the directory containing KeePass.exe.
- Server credentials. When opening a database from a URL, the credentials for accessing the file on the server can be specified using the custom entry strings “locUserName” and “locPassword”. These strings must not contain new-line characters.
- Custom entry string “Visible” set to “False” will hide autoopen entries from Menu → open
- Custom entry string “Focus” set to “Restore” will switch the active tab to the main database again.
- Custom entry string “ifDevice” can be used to exclude or include specific devices i.e. '!OnePlus DN2103 (b6e6...)' excludes a specific OnePlus mobile.

Open specific db on startup

- Turn off the option 'Remember and automatically open last used database on startup' (in 'Tools' → 'Options' → tab 'Advanced').
- Go 'Tools' → 'Triggers' → button 'Add'. Enter a name for the new trigger, e.g. 'Open specific database'.
- Switch to the 'Events' tab and add the event 'Application started and ready'.
- Switch to the 'Actions' tab and add an 'Open database file' action. In the action details, set the parameter 'File/URL' to the path of the database file that KeePass should open when it is started.

Opening multiple specific databases at KeePass startup can for example be realized using the trigger

approach above (with multiple trigger actions) or using the KeeAutoExec plugin.

Problem with dialog buttons missing text

Current libgdiplus of debian/ubuntu/mint contains libpango which causes problems with keepass2. Option is to downgrade until fixed upstream.

[libgdiplus_downgrade.sh](#)

```
#!/bin/bash
doKeepassFix() (
  # check os
  #. /etc/os-release
  #[[ ${ID_LIKE} = "debian" ]] || {
  # : ${EXCEPTION:?$(echo -e "\e[41mThis script is intended to run on
  ${ID_LIKE} line os\e[0m")}
  #}

  # if libgdiplus exists and does not embeds pango then skip process
  libgdiplus="/usr/lib/libgdiplus.so"
  [[ ! -e ${libgdiplus} ]] ||
  [[ $(strings ${libgdiplus} | grep pango | wc -l) -gt 0 ]] || {
    echo "Nothing to do - libgdiplus already patched" >&2
    return 0
  }

  # Perform downgrade
  arch=$(dpkg --print-architecture)
  baseUrl="http://ftp.de.debian.org/debian/pool/main"
  pkgs=(
    libj/libjpeg-turbo/libjpeg62-turbo_2.1.5-4
    libw/libwebp/libwebp6_0.6.1-2.1+deb11u2
    t/tiff/libtiff5_4.2.0-1+deb11u5
    libg/libgdiplus/libgdiplus_6.0.4+dfsg-2
  )
  cd $(mktemp -d)
  retCode=0
  for pkg in ${pkgs[@]}; do
    url="${baseUrl%}//${pkg#}/_${arch}.deb"
    curl -sSLf0 "${url}" &&
    sudo dpkg -i ./${url##*/} || {
      # Raise error code
      retCode=${?}
      # Display debug
      echo -e "\t\te[1;4mcmd\e[0m: $(pwd)" >&2
      echo -e "\t\te[1;4murl\e[0m: ${url}" >&2
      echo -e "\t\te[1;4mpackage\e[0m: ./${url##*/}" >&2
      break
    }
  }
}
```

```
done

# Lock package if no error occurred
[[ ${retCode} -gt 0 ]] || sudo apt-mark hold libgdiplus
)

doKeepassFix
```

Run with sudo

```
sudo ./libgdiplus_downgrade.sh
```

From:

<http://wuff.dyndns.org/> - **Wulf's Various Things**

Permanent link:

<http://wuff.dyndns.org/doku.php?id=config:keepass>

Last update: **2026/04/22 17:24**

