



## Google Play Store installation for Sailfish OS devices

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Pegasi Knowledge  
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# Google Play Store installation for Sailfish OS devices

Installing Play Store to Sailfish OS requires some downloading and terminal commands but luckily the terminal part is repeatable and easily scriptable - leaving us with only the downloading part.

## Download and extract packages

Download compatible Google Apps from [this link](#) and extract them to /home/nemo/gapps-kk-20140606 so that the directory looks like following:

```
[root@Sailfish nemo]# ls -al /home/nemo/gapps-kk-20140606/
total 24
drwxr-xr-x  5 root root 4096 Feb 26 12:02 .
drwxr-x--- 31 nemo nemo 4096 Feb 26 12:15 ..
drwxr-xr-x  3 root root 4096 Feb 26 12:02 META-INF
-rw-r--r--  1 root root  733 Feb 28  2008 install-optional.sh
drwxr-xr-x  3 root root 4096 Feb 26 12:02 optional
drwxr-xr-x  9 root root 4096 Feb 26 12:02 system
```

Download Google Play store release 7.3.25 which supports downloading of apks from [this link](#) and extract the apk to /home/nemo/playstore so that the directory contains the play store apk as playstore.apk. You can do ln or rename. I did with:

```
ln -s com.android.<truncated>.apk playstore.apk
```

The directory looks like this:

```
[root@Sailfish nemo]# ls -al /home/nemo/playstore/
total 17320
drwxr-xr-x  2 root root  4096 Feb 26 12:16 .
drwxr-x--- 31 nemo nemo  4096 Feb 26 12:15 ..
-rw-r--r--  1 nemo nemo 17723383 Feb 26 12:15 com.android.vending_7.3.25.K-
all_0_PR_142209747-80732500_minAPI14(240,320,480dpi)_apkmirror.com.apk
lrwxrwxrwx  1 root root    99 Feb 26 12:16 playstore.apk ->
com.android.vending_7.3.25.K-
all_0_PR_142209747-80732500_minAPI14(240,320,480dpi)_apkmirror.com.apk
```

## The script

In short the `playstore-reinstall.sh` script does the following:

- Stop aliendalvik
- Remove existing store from file system
- Copy downloaded store to file system
- Copy gapps to file system
- Set rights to the files
- Start aliendalvik
- Install the downloaded Play Store
- Prevent Play Store from updating itself to prevent "pending" problem

## Download option

Download the [playstore-reinstall](#) script to a convenient folder. I will use Download as an example.

## Copy paste option

If you are not comfortable with downloading you can copy paste the script from below and save it as `/home/nemo/Download/playstore-reinstall.sh` - for below examples to work.

```
#!/bin/sh
srcdir="/home/nemo/gapps-kk-20140606/system/priv-app"
destdir="/opt/alien/system/priv-app/"
deletedir="/home/nemo/deleted/"
playstore="/home/nemo/playstore/playstore.apk"

user=`whoami`

if [ "$user" != "root" ]; then
    echo This script requires root privileges. Please try again with
devel-su.
    exit 0;
fi

reinstall () {
    echo 1: Stopping aliendalvik
    systemctl stop aliendalvik
    systemctl mask aliendalvik

    echo 2: Replacing Play Store with a compatible one from file
```

```
$playstore
  chattr -i /home/.android/data/app//incoming/com.android.vending.apk
  rm /home/.android/data/app//incoming/com.android.vending.apk
  chattr -i /data/app/com.android.vending-2.apk
  rm -f /data/app/com.android.vending-2.apk
  cp -a $playstore /data/app/com.android.vending-2.apk

  echo 3: Copying files from $srcdir to $destdir
  cp -a $srcdir/GmsCore.apk $destdir
  cp -a $srcdir/GoogleLoginService.apk $destdir
  cp -a $srcdir/GoogleServicesFramework.apk $destdir
  cp -a $srcdir/Phonesky.apk $destdir

  echo 4: Setting up rights
  chmod 644 $srcdir/GmsCore.apk
  chmod 644 $srcdir/GoogleLoginService.apk
  chmod 644 $srcdir/GoogleServicesFramework.apk
  chmod 644 $srcdir/Phonesky.apk

  echo 5: Starting aliendalvik
  systemctl unmask aliendalvik
  systemctl start aliendalvik

  echo 6: Installing Play Store. Please check the latest download
enabled version from
http://www.apkmirror.com/apk/google-inc/google-play-store/google-play-store-7-3-25-release/
  apkd-install $playstore

  echo 7: Preventing Play Store from updating itself
  touch /data/app/com.android.vending-2.apk
  chattr +i /data/app/com.android.vending-2.apk

  echo 8: Finished - remember to finish Play Store install in your
device.
}

sign_out () {
  echo Skipping and quitting, bb.
}

echo This script requires that you have done following:
echo 1: downloaded gapps-kk-20140606 from
https://www.androidfilehost.com/?fid=95832962473395379 and extracted it to
/home/nemo/gapps-kk-20140606
echo 2: downloaded 7.3.25 play store and extracted it as $playstore
echo -n 'Do you want to continue? [Y/N] '
```

```
read answer

case "$answer" in
    Y|y)
        reinstall
        ;;
    N|n)
        sign_out
        ;;
esac

exit 0;
```

## Execute the script

Start terminal and run the following:

```
devel-su
cd /home/nemo/Download
unzip playstore-reinstall.zip
chmod a+x playstore-reinstall.sh
./playstore-reinstall.sh
```

And finish the Play Store installation on phone screen.

## Repeat

The above script is safe to repeat so feel free to experiment.

## Comments

All comments and corrections are welcome.