**Installation Manual GNUPG/GPG for PHP**

**Pre-requisite/Command Installation**

1. C-Compiler and PHP Dev Tool
   1. To install C-Compiler use command, **dnf install gcc**
   2. To install PHP Dev tool, use command **dnf install php-devel**
2. make tool
   1. To install make tool, use command **dnf install make**

**Packages required for GNUPG/GPG installation**

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| --- | --- |
| Extension Name | libgpg-error |
| Installation Manual Link | <https://www.linuxfromscratch.org/blfs/view/svn/general/libgpg-error.html> |
| Package Download Link | <https://www.gnupg.org/ftp/gcrypt/libgpg-error/libgpg-error-1.45.tar.bz2> |

|  |  |
| --- | --- |
| Extension Name | libassuan |
| Installation Manual Link | <https://www.linuxfromscratch.org/blfs/view/svn/general/libassuan.html> |
| Package Download Link | <https://www.gnupg.org/ftp/gcrypt/libassuan/libassuan-2.5.5.tar.bz2> |

|  |  |
| --- | --- |
| Extension Name | gpgme |
| Installation Manual Link | <https://www.linuxfromscratch.org/blfs/view/svn/postlfs/gpgme.html> |
| Package Download Link | <https://www.gnupg.org/ftp/gcrypt/gpgme/gpgme-1.17.1.tar.bz2> |

|  |  |
| --- | --- |
| Extension Name | gnupg/gpg |
| Installation Manual Link | <https://pecl.php.net/package/gnupg> |
| Package Download Link | <https://pecl.php.net/get/gnupg-1.5.1.tgz> |

## Installation of libgpg-error

cd libgpg-error-1.45

Install libgpg-error by running the following commands:

**./configure --prefix=/usr &&**

**make**

To test the results, issue: **make check**.

Now, as the *root* user:

**make install &&**

**install -v -m644 -D README /usr/share/doc/libgpg-error-1.45/README**

## Installation of libassuan

## cd libassuan-2.5.5

Install libassuan by running the following commands:

**./configure --prefix=/usr &&**

**make &&**

**make -C doc html &&**

**makeinfo --html --no-split -o doc/assuan\_nochunks.html doc/assuan.texi &&**

**makeinfo --plaintext -o doc/assuan.txt doc/assuan.texi**

The above commands build the documentation in html and plaintext formats. If you wish to build alternate formats of the documentation, you must have [texlive-20220321](https://www.linuxfromscratch.org/blfs/view/svn/pst/texlive.html) installed and issue the following commands:

**make -C doc pdf ps**

To test the results, issue: **make check**.

Now, as the *root* user:

**make install &&**

**install -v -dm755 /usr/share/doc/libassuan-2.5.5/html &&**

**install -v -m644 doc/assuan.html/\* \**

**/usr/share/doc/libassuan-2.5.5/html &&**

**install -v -m644 doc/assuan\_nochunks.html \**

**/usr/share/doc/libassuan-2.5.5 &&**

**install -v -m644 doc/assuan.{txt,texi} \**

**/usr/share/doc/libassuan-2.5.5**

If you built alternate formats of the documentation, install them by running the following commands as the *root* user:

**install -v -m644 doc/assuan.{pdf,ps,dvi} \**

**/usr/share/doc/libassuan-2.5.5**

## Installation of GPGME

## cd gpgme-1.17.1

First, fix an issue building the package with Glibc-2.34 or later:

**sed 's/defined(\_\_sun.\*$/1/' -i src/posix-io.c**

Next, fix an issue building with Python 3.10 installed:

**sed -e 's/3\.9/3.10/' \**

**-e 's/:3/:4/' \**

**-e '23653 s/distutils"/setuptools"/' \**

**-i configure**

Install GPGME by running the following commands:

**./configure --prefix=/usr --disable-gpg-test &&**

**make**

To test the results, you should have [GnuPG-2.3.6](https://www.linuxfromscratch.org/blfs/view/svn/postlfs/gnupg.html) installed and remove the **--disable-gpg-test** above. Issue: **make -k check**.

Now, as the *root* user:

**make install**

**Installation of GNUPG**

cd gnupg-1.5.1

phpize

./configure

make

sudo make install