

2015 8 28

Linux

- http ftp
- tar zip gzip
- README INSTALL
- sed/awk/patch
- perl python
-

/

—

“ ”

ID

“ ”

“ ”

—

“ ”

“ ”

“http”

“ftp”

URL “wget” “curl”

unix

http ftp

“ ”

“http” “ftp”

*md5sum**md5sums* md5sums *https*

*md5sum*unix

md5sum file-to-check

“ ”

“ ”

md5sum

“ ”

md5sums

```
md5sum -c md5sums-file
```

md5sums

md5

- https
- " " ".sig" ".asc"
-

```
# needed only once for each key, ie each "publisher"
```

```
gpg --import {public-key}
```

```
gpg --verify {signature-file-name}
```

"gpg"

" "

" " " " " "

| | | | | | |
|--------|------------------|-------|-----|------------|-----------|
| "tar" | "tar " | Tar | " " | Tar | Unix' |
| "gzip" | ".tar.gz" ".tgz" | bzip2 | | ".tar.bz2" | "xz" ".ta |

```
# Modern GNU tar options. This works for files compressed
```

```
# with gzip and bzip too
```

```
tar --extract --file filename
```

```
# Same as above
```

```
tar -xf filename
```

```
# Same as above. Leading "-" is optional
```

```
tar xf filename
```

```
# explicitly decompress gzip2-compressed file then
```

```
# pass uncompressed result directly into tar
```

```
gzip -cd filename.tgz | tar xf -
```

```
# same as above, but for bzip2-compressed files
```

bunzip2 -cd filename.tar.bz2 | tar xf -

“f”

- C or --directory
- P or --absolute-names
- transform or --xform

tar “foo-1.2.tar.gz” “foo-1.2”

```
# Modern GNU tar
tar --list --file filename

# Same as above
tar -tf filename

# Same as above. Leading "-" is optional
tar tf filename

gzip -cd filename | tar tf -
bunzip -cd filename | tar tf -
```

“zip ” Zip-archives DOS Windows Java `unzip` Zip tar gzip
“ ” tar

README INSTALL

README INSTALL /

`sed` `awk` sed/awk shell ”

`sed`

`awk`

`patch` “ ” “ ” Patchfiles

`$PATH`

python perl

`$PATH`

`make` `Mak``makefile`

- `TARGET-FILE SOURCE-FILE SOME-ACTION`

`make` `makefiles`— `A` `makefile`

`makefile`

`" " shell`

```
# unpack and read documentation
tar xf filename
cd {directory created by above step}
less README
less INSTALL

# generate customised makefile
./configure {some options ...}

# compile everything in the local directory
make

# update global directories
sudo make install
```

`auto``tools`

`"./configure"`

- `$PATH` `"."`
- `$PATH`

`/bin``/usr` `" "` `root` `" "`

`makefile` `" "` `" "` `makefile`

`"sudo"`

`su` `#` must then enter root password

```
make install
exit
```

make

“ ”

```
# unpack into a directory {packagename}
tar xf filename

# create separate build directory
mkdir {packagename}-build

# compile everything in the separate build directory
cd {packagename}-build
../{packagename}/configure {some options}
make

# update global directories
sudo make install
```

`cmake` `cmake` `configure` `makefile`

`cmake`

`cmake`

“ / ”

```
cmake . -DCMAKE_BUILD_TYPE=Release {some options ...}
```

py`make`perl

Perl Python

`environment variables` `make`

```
NAME=tom ENABLE_F00=no ./configure
```

```
export NAME=tom
export ENABLE_F00=no
./configure
```

README INST`./configure --help`

“ ” `/usr/share/doc/n` `make install` HTML “ ”

README INSTALL

“make” “make install”

`make clean`

“make” “cmake”

—— README INSTALL

`strip {filename} | strip` “ ”

`/usr` `/etc` `make install` README INSTALL

A Makefile

`make` makefile makefile

“prog” makefile “c” “c”

```
prog: prog.c prog.h libmylib.a
    gcc -o prog prog.c -L. -lmylib

libmylib.a: libmylib.o
    ar -rcs libmylib.a libmylib.o

libmylib.o: libmylib.c libmylib.h
    gcc -c -o libmylib.o libmylib.c
```

```
target: dependency1 [dependency-n ...]
<tab> command to execute
...
```

“ ”

libmylib.c

libmylib.o

libmylib.a

prog

Makefiles

[TLDP](#) [HOWTO](#)

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