How to install MP4Box (GPAC) on Centos 6.2

MP4Box is a MP4 multiplexer utility, which can import MPEG-4 video, DivX, XviD, 3ivx, h264 etc, audio streams and subtitles into the .mp4 container. The end result is a compliant MP4 stream. It can also extract streams from a .mp4. MP4Box is a command line tool, but can be used with graphical user interfaces such as YAMB or my MP4box GUI.

Q. What is zlib ?

Ans :- zlib is a software library used for data compression. zlib is an abstraction of the DEFLATE compression algorithm used in their gzip file compression program.

How to Install MP4Box on Linux Box :-

1.Install the dependency :-

[root@p-root ~]# yum install zlib*

2.Download MP4Box :-

Execute Following commands on Shell to Download the MP4Box Source.

[root@p-root ~]# cd /usr/local/src/
[root@p-root src]# wget
http://nchc.dl.sourceforge.net/project/gpac/GPAC/GPAC%200.4.5/gpac-0.4.5.tar.gz
[root@p-root src]# wget http://nchc.dl.sourceforge.net/project/gpac/GPAC%20extra%20libs/GPAC%20extra%20libs%200.4.5/gpac_extra_libs-0.4.5.tar.gz

“gpac-0.4.5.tar.gz” is Main Source for MP4Box where as “gpac_extra_libs-0.4.5.tar.gz” contains Extra Libraries which will enhance the functionality of MP4Box.

3.Extract the Downloaded sources :-

[root@p-root src]# tar -zxvf gpac-0.4.5.tar.gz
[root@p-root src]# tar -zxvf gpac_extra_libs-0.4.5.tar.gz

4. Copy the Additional Libraries from “gpac_extra_libs” to “gpac” folder :-

[root@p-root src]# cd gpac_extra_libs
[root@p-root gpac_extra_libs]# cp -r * /usr/local/src/gpac/extra_lib
[root@p-root gpac_extra_libs]# cd ..

5. Install GPac or MP4Box :- Execute following Commands on the Shell of your Linux

Server one after one (Make sure it doesn't throw any Error).

```
[root@p-root src]# cd gpac
[root@p-root gpac]# chmod +x configure
[root@p-root gpac]# ./configure
[root@p-root gpac]# make lib
[root@p-root gpac]# make apps
[root@p-root gpac]# make install lib
[root@p-root gpac]# make install
```

Might be you will encounter this error :- This Error can be fixed by creating an symbolic link of /usr/lib64/libglut.so.3 to /usr/lib64/libglut.so

ERROR:-

```
/usr/bin/ld: cannot find -lglut
collect2: ld returned 1 exit status
```

Fix :-

```
[root@p-root gpac]#ls /usr/lib64 |grep glut
libglut.so.3
[root@p-root gpac]# ln -s /usr/lib64/libglut.so.3 /usr/lib64/libglut.so
```

6. Once GPAC get installed Properly, copy the gpac .so file from gpac directory to System libraries :-

```
[root@p-root gpac]# cp bin/gcc/libgpac.so /usr/lib
```

7. Hurrey…. !!!! Mp4Box installed now….you can cross verify the MP4Box installation :-

```
[root@p-root ~]# which MP4Box
/usr/local/bin/MP4Box
[root@p-root ~]#
```

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libgpac.so: cannot open shared object file.

"Today i am getting the following error after installation of MP4Box."

MP4Box did not find libgpac.so

Error :-

root@unixsurgeon [~]# /usr/local/bin/MP4Box
/usr/local/bin/MP4Box: error while loading shared libraries: libgpac.so: cannot open shared object file: No such file or directory
root@unixsurgeon [~]#

Solution :-

The shared libary was compiled, but is not installed to /usr/local/lib. This can be fixed as,

root@unixsurgeon [/usr/local/src/gpac]# install -m644 bin/gcc/libgpac.so /usr/local/lib/libgpac.so
root@unixsurgeon [/usr/local/src/gpac]# chmod +x /usr/local/lib/libgpac.so
root@unixsurgeon [/usr/local/src/gpac]# ldconfig

Now you can verify :-

root@unixsurgeon [~]# /usr/local/bin/MP4Box
MP4Box [option] input [option]
-h general: general options help
-h hint: hinting options help
-h import: import options help
-h encode: encode options help
-h meta: meta handling options help
-h extract: extraction options help
-h dump: dump options help
-h swf: Flash (SWF) options help
-h crypt: ISMA E&A options help
-h format: supported formats help
-nodes: lists supported MPEG4 nodes
-node NodeName: gets MPEG4 node syntax and QP info
-xnodes: lists supported X3D nodes
-xnode NodeName: gets X3D node syntax
-snodes: lists supported SVG nodes
-snode NodeName: gets SVG node syntax
-languages: lists supported ISO 639 languages
-quiet: quiet mode
-v: verbose mode
-version: gets build version

root@unixsurgeon [~]# /usr/local/bin/MP4Box -version

Done :)