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How to reconstruct Parted Magic ISO through adding packages from Slackware

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Parted Magic is a complete hard disk management solution. Parted Magic is a small live CD/USB/PXE with its elemental purpose being to partition hard drives. As per the definition on partedmagic.com,

“PartedMagic has the tools to get the job done. With the Partition Editor you can re-size, copy, and move partitions. You can grow or shrink your C: drive. Create space for new operating systems. Attempt data rescue from lost partitions.”

Recently I dirtied my hands on reconstructing Parted Magic ISO through adding packages from Slackware. Here is how I achieved it –

Step-1:

Starting with Parted Magic 5.9 the mkgriso script is provided in the root of the iso. It is recommended to follow the instructions in there and to use that script to recreate the iso.

Follow the below steps:

```
#mkdir /mnt/cdrom
#mount -o loop pmagic-x.x.iso /mnt/cdrom
#cp -a /mnt/cdrom .
#umount /mnt/cdrom
```

Step-2: Adding Slackware Packages:

Parted Magic is not Slackware based, but the main tool chain was compiled on Slackware. If you would like to add programs your best bet is to use TXZ packages from Slackware 13.x.

If you would like to add programs, put the txz files in cdrom/pmagic/pmodules directory. Parted Magic will install any packages it finds in the /pmagic/pmodules directory.

The most comprehensive place for Slackware packages is slackbuilds.org. You download the source and a build file which you use to compile the program and make the package. Slackware packages are basically just ordinary compressed tar files.

Let's download an example build, say apache-maven

```
ls
PMAGIC_2015_01_13.SQFS scripts
[root@localhost pmodules]# wget http://slackbuilds.org/slackbuilds/14.1/development/apache-
maven.tar.gz
--2015-04-20 05:17:34-- http://slackbuilds.org/slackbuilds/14.1/development/apache-maven.tar.gz
Resolving moxy.us.dell.com (moxy.us.dell.com)... 10.35.178.212
Connecting to moxy.us.dell.com (moxy.us.dell.com)|10.35.178.212|:3128... connected.
Proxy request sent, awaiting response... 200 OK
Length: 2160 (2.1K) [application/x-gzip]
Saving to: 'apache-maven.tar.gz'

100%[=====>] 2,160  --K/s  in 0s

2015-04-20 05:17:35 (120 MB/s) -- 'apache-maven.tar.gz' saved [2160/2160]

[root@localhost pmodules]# wget http://archive.apache.org/dist/maven/binaries/apache-maven-3.1.1-
bin.tar.gz
--2015-04-20 05:17:43-- http://archive.apache.org/dist/maven/binaries/apache-maven-3.1.1-bin.tar.gz
Proxy request sent, awaiting response... 200 OK
Length: 5494427 (5.2M) [application/x-gzip]
Saving to: 'apache-maven-3.1.1-bin.tar.gz'

100%[=====>] 5,494,427 144KB/s  in 43s
```

2015-04-20 05:18:27 (126 KB/s) – 'apache-maven-3.1.1-bin.tar.gz' saved [5494427/5494427]

```
[root@localhost pmodules]#
```

```
#pwd
```

```
/mnt/isoss/pmagic/pmodules
```

```
[root@localhost pmodules]# ls
```

```
PMAGIC_2015_01_13.SQFS  scripts
```

```
[root@localhost pmodules]#
```

So, now we have the following source and builds downloaded

```
[root@localhost pmodules]# ls
```

```
apache-maven-3.1.1-bin.tar.gz  PMAGIC_2015_01_13.SQFS
```

```
apache-maven.tar.gz          scripts
```

Step-3: Remastering the ISO

Now as I have added these sources(packages) into pmodules directory.

Its time to run mkgriso script:

```
cp -rf mkgriso pmagic-custom/
```

```
cp: overwrite 'pmagic-custom/mkgriso'? y
```

```
[root@localhost opt]# ls
```

```
GPL  mkgriso  pmagic-custom
```

```
[root@localhost opt]# cd pmagic-custom/
```

```
[root@localhost pmagic-custom]# ls
```

```
boot  EFI  GPL  mkgriso  pmagic  rh
```

```
[root@localhost pmagic-custom]# chmod +x mkgriso
```

```
[root@localhost pmagic-custom]# ./mkgriso
```

```
Warning: creating filesystem that does not conform to ISO-9660.
```

```
I: -input-charset not specified, using utf-8 (detected in locale settings)
```

```
genisoimage 1.1.11 (Linux)
```

```
Scanning .
```

```
Scanning ./boot
```

```
Scanning ./boot/chntpw
```

```
Scanning ./boot/grub
```

```
Scanning ./boot/ipxe
```

```
Scanning ./boot/memtest
```

```
Scanning ./boot/mhdd
```

```
Scanning ./boot/plpbt
```

```
Scanning ./boot/pxelinux
```

```
Scanning ./boot/sgd
```

```
Scanning ./boot/syslinux
```

```
Scanning ./EFI
```

```
Scanning ./EFI/boot
```

Scanning ./EFI/boot/x86_64-efi
Scanning ./pmagic
Scanning ./pmagic/pmodules
Scanning ./pmagic/pmodules/scripts
Scanning ./rh
Writing: Initial Padblock Start Block 0
Done with: Initial Padblock Block(s) 16
Writing: Primary Volume Descriptor Start Block 16
Done with: Primary Volume Descriptor Block(s) 1
Writing: Eltorito Volume Descriptor Start Block 17
Size of boot image is 4 sectors -> No emulation
Size of boot image is 6600 sectors -> No emulation
Done with: Eltorito Volume Descriptor Block(s) 1
Writing: Joliet Volume Descriptor Start Block 18
Done with: Joliet Volume Descriptor Block(s) 1
Writing: End Volume Descriptor Start Block 19
Done with: End Volume Descriptor Block(s) 1
Writing: Version block Start Block 20
Done with: Version block Block(s) 1
Writing: Path table Start Block 21
Done with: Path table Block(s) 4
Writing: Joliet path table Start Block 25
Done with: Joliet path table Block(s) 4
Writing: Directory tree Start Block 29
Done with: Directory tree Block(s) 35
Writing: Joliet directory tree Start Block 64
Done with: Joliet directory tree Block(s) 25
Writing: Directory tree cleanup Start Block 89
Done with: Directory tree cleanup Block(s) 0
Writing: Extension record Start Block 89
Done with: Extension record Block(s) 1
Writing: The File(s) Start Block 90
2.22% done, estimate finish Mon Apr 20 05:41:18 2015
4.44% done, estimate finish Mon Apr 20 05:41:40 2015
6.66% done, estimate finish Mon Apr 20 05:41:33 2015
8.87% done, estimate finish Mon Apr 20 05:41:29 2015
11.09% done, estimate finish Mon Apr 20 05:41:27 2015
13.31% done, estimate finish Mon Apr 20 05:41:33 2015
15.53% done, estimate finish Mon Apr 20 05:41:30 2015
17.75% done, estimate finish Mon Apr 20 05:41:29 2015
19.96% done, estimate finish Mon Apr 20 05:41:28 2015
22.18% done, estimate finish Mon Apr 20 05:41:27 2015
24.40% done, estimate finish Mon Apr 20 05:41:26 2015

26.61% done, estimate finish Mon Apr 20 05:41:25 2015
28.83% done, estimate finish Mon Apr 20 05:41:28 2015
31.05% done, estimate finish Mon Apr 20 05:41:27 2015
33.27% done, estimate finish Mon Apr 20 05:41:27 2015
35.49% done, estimate finish Mon Apr 20 05:41:29 2015
37.70% done, estimate finish Mon Apr 20 05:41:28 2015
39.92% done, estimate finish Mon Apr 20 05:41:28 2015
42.14% done, estimate finish Mon Apr 20 05:41:27 2015
44.36% done, estimate finish Mon Apr 20 05:41:29 2015
46.57% done, estimate finish Mon Apr 20 05:41:28 2015
48.79% done, estimate finish Mon Apr 20 05:41:30 2015
51.01% done, estimate finish Mon Apr 20 05:41:29 2015
53.23% done, estimate finish Mon Apr 20 05:41:31 2015
55.44% done, estimate finish Mon Apr 20 05:41:30 2015
57.66% done, estimate finish Mon Apr 20 05:41:30 2015
59.88% done, estimate finish Mon Apr 20 05:41:29 2015
62.10% done, estimate finish Mon Apr 20 05:41:29 2015
64.31% done, estimate finish Mon Apr 20 05:41:28 2015
66.53% done, estimate finish Mon Apr 20 05:41:30 2015
68.75% done, estimate finish Mon Apr 20 05:41:29 2015
70.97% done, estimate finish Mon Apr 20 05:41:29 2015
73.18% done, estimate finish Mon Apr 20 05:41:28 2015
75.40% done, estimate finish Mon Apr 20 05:41:28 2015
77.62% done, estimate finish Mon Apr 20 05:41:29 2015
79.84% done, estimate finish Mon Apr 20 05:41:29 2015
82.05% done, estimate finish Mon Apr 20 05:41:28 2015
84.27% done, estimate finish Mon Apr 20 05:41:28 2015
86.49% done, estimate finish Mon Apr 20 05:41:29 2015
88.71% done, estimate finish Mon Apr 20 05:41:29 2015
90.92% done, estimate finish Mon Apr 20 05:41:28 2015
93.14% done, estimate finish Mon Apr 20 05:41:29 2015
95.36% done, estimate finish Mon Apr 20 05:41:29 2015
97.58% done, estimate finish Mon Apr 20 05:41:30 2015
99.79% done, estimate finish Mon Apr 20 05:41:30 2015

Total translation table size: 2048

Total rockridge attributes bytes: 29243

Total directory bytes: 69632

Path table size(bytes): 244

Done with: The File(s) Block(s) 225233

Writing: Ending Padblock Start Block 225323

Done with: Ending Padblock Block(s) 150

Max brk space used 5d000

225473 extents written (440 MB)

```
>>> /opt/pmagic_2015_01_13T.iso created
[root@localhost pmagic-custom]# ls
boot EFI GPL mkgriso pmagic rh
[root@localhost pmagic-custom]# cd ..
[root@localhost opt]# ls
GPL mkgriso pmagic_2015_01_13T.iso pmagic-custom
```

Hence the pmagic_2015_01_13T.iso is created.

Just mount the ISO and you will see the particular packages and module is loaded. If the module is bind to kernel, you might need to compile the kernel.

Hope it helps !!!



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uma bankolli — [root@jaguar20 oracle]#
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