

Menggunakan Yum untuk Administrasi Package di FC4

Written by ari

Tuesday, 30 August 2005 07:28 - Last Updated Wednesday, 31 August 2005 05:24



Bagi kamu yang biasa menggunakan Mandrake, tentu sudah paham bahwa Mdk menyediakan sebuah command yang sangat memudahkan untuk administrasi package yaitu **urpmi**. Dimana bila kita menggunakan command rpm sendiri saja, maka ada kemungkinan kita akan direpotkan dengan message bahwa untuk install rpm ini, diperlukan dependency A, dan untuk install A tersebut, diperlukan dependency B, dstnya. Hal ini dinamakan **'rpm hell'**

Tapi sekarang tidak lagi. Redhat, dalam hal ini Fedora Project menyediakan sebuah utility yang dinamakan **yum (yellowdog update manager)**. Dengan menggunakan utility ini kita bisa menginstall package2 rpm tanpa harus repot memikirkan dependencynya.

Bagaimana cara menggunakannya? Sebelumnya perlu diketahui file2 konfigurasi yum, yaitu ada di:

/etc/yum/ <-- berisi script untuk otomatis update per hari

/etc/yum.repos.d/ <-- berisi daftar alamat tempat repository yang akan dicari yum

Secara default, FC4 menyediakan 3 buah kelompok repository, yaitu:

fedora.repo

fedora-updates.repo

fedora-extras.repo

Namun sebenarnya disediakan pula repo2 untuk package2 yang sedang dalam status dikembangkan, saat ini sedang dikembangkan untuk Fedora Core 5. Mungkin di Mandrake kita mengenal istilah: cooker.

Repo2 development tersebut adalah:

fedora-devel.repo

fedora-updates-testing.repo

fedora-extras-devel.repo

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Untuk mulai menggunakan yum, syaratnya adalah kita mesti terkoneksi ke internet, dan tentu lebih baik lagi bila koneksi kita tersebut lumayan cepat. Ok, sebagai root, kita jalankan yum.

Untuk mengecek update2 yang ada:

```
[root@fc4 etc]# yum check-update
```

```
Setting up repositories
```

```
dries          100% |=====| 951 B  00:00
livna          100% |=====| 951 B  00:00
extras        100% |=====| 1.1 kB  00:00
updates-released 100% |=====| 951 B  00:00
base          100% |=====| 1.1 kB  00:00
```

```
Reading repository metadata in from local files
```

```
HelixPlayer.i386          1:1.0.5-1.fc4.2    updates-released
ImageMagick.i386         6.2.2.0-3.fc4.0    updates-released
MyODBC.i386              2.50.39-25.FC4.1    updates-released
NetworkManager.i386      0.4-20.FC4.1       updates-released
NetworkManager-gnome.i386 0.4-20.FC4.1       updates-released
alsa-lib.i386            1.0.9rf-2.FC4      updates-released
```

Untuk mengupdate package tersebut cukup menetik:

```
[root@fc4 etc]# yum update ImageMagick
```

Bagaimana untuk mencari suatu package? Misalkan kita ingin mencari synaptic:

```
[root@fc4 etc]# yum search synaptic
```

Maka akan muncul daftar2 package yang ada kata synapticnya, dan bila sudah ketemu, kita kemudian tinggal menginstallnya:

```
[root@fc4 etc]# yum install synaptic
```

```
Setting up Install Process
```

```
Setting up repositories
```

```
updates-released 100% |=====| 951 B  00:00
extras          100% |=====| 1.1 kB  00:00
```

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```
base 100% |=====| 1.1 kB 00:00
Reading repository metadata in from local files
Parsing package install arguments
Resolving Dependencies
--> Populating transaction set with selected packages. Please wait.
---> Downloading header for synaptic to pack into transaction set.
synaptic-0.57.2-1.fc4.i386 100% |=====| 27 kB 00:01
---> Package synaptic.i386 0:0.57.2-1.fc4 set to be updated
--> Running transaction check
--> Processing Dependency: libapt-pkg-libc6.3-6.so.2 for package: synaptic
--> Restarting Dependency Resolution with new changes.
--> Populating transaction set with selected packages. Please wait.
---> Downloading header for apt to pack into transaction set.
apt-0.5.15cnc7-6.fc4.i386 100% |=====| 41 kB 00:01
---> Package apt.i386 0:0.5.15cnc7-6.fc4 set to be updated
--> Running transaction check
```

Dependencies Resolved

```
=====
=====
Package Arch Version Repository Size
=====
Installing:
synaptic i386 0.57.2-1.fc4 extras 1.6 M
Installing for dependencies:
apt i386 0.5.15cnc7-6.fc4 extras 898 k
```

Transaction Summary

```
=====
=====
Install 2 Package(s)
Update 0 Package(s)
Remove 0 Package(s)
Total download size: 2.5 M
Is this ok [y/N]: y
```

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Downloading Packages:

(1/2): synaptic-0.57.2-1. 100% |=====| 1.6 MB 01:06

(2/2): apt-0.5.15cnc7-6.f 100% |=====| 898 kB 00:34

warning: rpmts_HdrFromFdno: Header V3 DSA signature: NOKEY, key ID 1ac70ce6

public key not available for synaptic-0.57.2-1.fc4.i386.rpm

Retrieving GPG key from <file:///etc/pki/rpm-gpg/RPM-GPG-KEY-fedora-extras>

Importing GPG key 0x1AC70CE6 "Fedora Pre Extras Release <pre-extras@fedoraproject.org>"

Is this ok [y/N]: y

Key imported successfully

Running Transaction Test

Finished Transaction Test

Transaction Test Succeeded

Running Transaction

Installing: apt ##### [1/2]

Installing: synaptic ##### [2/2]

Installed: synaptic.i386 0:0.57.2-1.fc4

Dependency Installed: apt.i386 0:0.5.15cnc7-6.fc4

Complete!

Nah, menarik dan mudah sekali bukan?

Nanti dulu, sebelum kita lebih bersemangat lagi, masih ada kejutan lainnya, yaitu: kita bisa **menambahkan repository**

lainnya, yang mana tentunya menyediakan package2 lainnya yang tidak disediakan secara resmi oleh Fedora.

Repository lain yang yang saya pakai adalah: **dries** dan **livna**. Sebenarnya masih banyak repository lainnya seperti freshrpm dll, tapi saya dapat masukkan di milis sebaiknya tidak menggunakan repository tersebut karena tidak compatible dengan Fedora.

Untuk menambahkan repository, kamu create file livna.repo dan dries.repo di direktori /etc/yum.repos.d/

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Isi file livna.repo:

[livna]

name=Livna for Fedora Core \$releasever - \$basearch - Base

baseurl=http://rpm.livna.org/fedora/\$releasever/\$basearch/RPMS.lvn/

#baseurl=http://livna.cat.pdx.edu/fedora/\$releasever/\$basearch/RPMS.lvn/

enabled=1

gpgcheck=1

gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-livna

[livna-testing]

name=Livna for Fedora Core \$releasever - \$basearch - Testing

baseurl=http://rpm.livna.org/fedora/\$releasever/\$basearch/RPMS.lvn-testing

#baseurl=http://livna.cat.pdx.edu/fedora/\$releasever/\$basearch/RPMS.lvn-testing

enabled=0

gpgcheck=1

gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-livna

Isi file dari dries.repo:

[dries]

name=Extra Fedora rpms dries - \$releasever - \$basearch

baseurl=http://ftp.belnet.be/packages/dries.ulyssis.org/fedora/linux/\$releasever/\$basearch/dries/RPMS/

Dengan telah ditambahkannya repository livna dan dries itu, maka kini kita bisa menginstall package xine yang telah lengkap librarynya untuk memutar multimedia kesukaan kita.

[root@fc4 etc]# yum install xine

Setting up Install Process

Setting up repositories

livna 100% |=====| 951 B 00:00

updates-released 100% |=====| 951 B 00:00

extras 100% |=====| 1.1 kB 00:00

base 100% |=====| 1.1 kB 00:00

Reading repository metadata in from local files

primary.xml.gz 100% |=====| 109 kB 00:08

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```
livna : ##### 333/333
Added 333 new packages, deleted 0 old in 4.95 seconds
Parsing package install arguments
Resolving Dependencies
--> Populating transaction set with selected packages. Please wait.
---> Downloading header for xine to pack into transaction set.
xine-0.99.4-0.lvn.1.4.i386 100% |=====| 26 kB 00:01
---> Package xine.i386 0:0.99.4-0.lvn.1.4 set to be updated
--> Running transaction check
--> Processing Dependency: libaa.so.1 for package: xine
--> Processing Dependency: libxine.so.1 for package: xine
--> Processing Dependency: liblirc_client.so.0 for package: xine
--> Restarting Dependency Resolution with new changes.
--> Populating transaction set with selected packages. Please wait.
---> Downloading header for lirc to pack into transaction set.
lirc-0.7.1-3.i386.rpm 100% |=====| 26 kB 00:01
---> Package lirc.i386 0:0.7.1-3 set to be updated
---> Downloading header for xine-lib to pack into transaction set.
xine-lib-1.1.0-0.lvn.1.4. 100% |=====| 36 kB 00:02
---> Package xine-lib.i386 0:1.1.0-0.lvn.1.4 set to be updated
---> Downloading header for aalib to pack into transaction set.
aalib-1.4.0-0.rc5.4.i386. 100% |=====| 5.3 kB 00:00
---> Package aalib.i386 0:1.4.0-0.rc5.4 set to be updated
--> Running transaction check
--> Processing Dependency: libmodplug.so.0 for package: xine-lib
--> Processing Dependency: libiso9660.so.4 for package: xine-lib
--> Processing Dependency: libvcdinfo.so.0(VCDINFO_0) for package: xine-lib
--> Processing Dependency: libcdio.so.6(CDIO_6) for package: xine-lib
--> Processing Dependency: libdirectfb-0.9.so.22 for package: xine-lib
--> Processing Dependency: libcdio.so.6 for package: xine-lib
--> Processing Dependency: libvcdinfo.so.0 for package: xine-lib
--> Processing Dependency: libfusion-0.9.so.22 for package: xine-lib
--> Processing Dependency: libdirect-0.9.so.22 for package: xine-lib
--> Restarting Dependency Resolution with new changes.
--> Populating transaction set with selected packages. Please wait.
---> Downloading header for directfb to pack into transaction set.
directfb-0.9.22-2.fc4.i386 100% |=====| 19 kB 00:01
---> Package directfb.i386 0:0.9.22-2.fc4 set to be updated
---> Downloading header for libmodplug to pack into transaction set.
libmodplug-0.7-2.i386.rpm 100% |=====| 2.9 kB 00:00
---> Package libmodplug.i386 1:0.7-2 set to be updated
---> Downloading header for libcdio to pack into transaction set.
libcdio-0.75-3.fc4.i386.r 100% |=====| 6.8 kB 00:00
---> Package libcdio.i386 0:0.75-3.fc4 set to be updated
---> Downloading header for vcdimager to pack into transaction set.
vcdimager-0.7.21-0.lvn.2. 100% |=====| 9.7 kB 00:00
```

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---> Package vcdimager.i386 0:0.7.21-0.lvn.2.4 set to be updated

--> Running transaction check

Dependencies Resolved

```
=====
=====
Package          Arch    Version      Repository    Size
=====
Installing:
xine             i386    0.99.4-0.lvn.1.4 livna         1.5 M
Installing for dependencies:
aalib           i386    1.4.0-0.rc5.4 extras        69 k
directfb       i386    0.9.22-2.fc4 extras        1.9 M
libcdio        i386    0.75-3.fc4  extras        235 k
libmodplug     i386    1:0.7-2     extras        110 k
lirc           i386    0.7.1-3     extras        331 k
vcdimager     i386    0.7.21-0.lvn.2.4 livna         649 k
xine-lib      i386    1.1.0-0.lvn.1.4 livna         4.4 M
=====
```

Transaction Summary

```
=====
=====
Install    8 Package(s)
Update    0 Package(s)
Remove    0 Package(s)
Total download size: 9.1 M
Is this ok [y/N]:
```

Downloading Packages:

```
(1/8): xine-lib-1.1.0-0.l 100% |=====| 4.4 MB 04:34
(2/8): directfb-0.9.22-2. 100% |=====| 1.9 MB 02:34
(3/8): libmodplug-0.7-2.i 100% |=====| 110 kB 00:08
(4/8): libcdio-0.75-3.fc4 100% |=====| 235 kB 00:19
(5/8): vcdimager-0.7.21-0 100% |=====| 649 kB 00:37
(6/8): lirc-0.7.1-3.i386. 100% |=====| 331 kB 00:22
(7/8): xine-0.99.4-0.lvn. 100% |=====| 1.5 MB 02:17
```

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```
(8/8): aalib-1.4.0-0.rc5. 100% |=====| 69 kB 00:08
warning: rpmts_HdrFromFdno: Header V3 DSA signature: NOKEY, key ID a109b1ec
public key not available for xine-lib-1.1.0-0.lvn.1.4.i386.rpm
Retrieving GPG key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-livna
Importing GPG key 0xA109B1EC "Livna.org rpms <rpm-key@livna.org>"
Is this ok [y/N]: y
Key imported successfully
Running Transaction Test
Finished Transaction Test
Transaction Test Succeeded
Running Transaction
Installing: aalib ##### [1/8]
Installing: libcdio ##### [2/8]
Installing: vcdimager ##### [3/8]
Installing: lirc ##### [4/8]
Installing: libmodplug ##### [5/8]
Installing: directfb ##### [6/8]
Installing: xine-lib ##### [7/8]
Installing: xine ##### [8/8]
```

Installed: xine.i386 0:0.99.4-0.lvn.1.4

Dependency Installed: aalib.i386 0:1.4.0-0.rc5.4 directfb.i386 0:0.9.22-2.fc4 libcdio.i386 0:0.75-3.fc4 libmodplug.i386 1:0.7-2 lirc.i386 0:0.7.1-3 vcdimager.i386 0:0.7.21-0.lvn.2.4 xine-lib.i386 0:1.1.0-0.lvn.1.4

Complete!

Ok, semoga artikel ini bermanfaat. Selamat ber yum yum :)



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