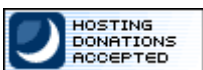


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Creating a yum repository (repo) and Creating a yum group to install + kickstart

📅 Submitted by thomas on Wed, 05/02/2007 - 15:23

Creating a yum repository is fairly easy, the only command you need is createrepo and some rpms. This is a quick guide to making a repo, I have a more complete example in my [howto make an install server](#).

Make a directory to contain your rpms, it's nice to name the directory the same as the repo name. Even better, segregate the rpms by architecture, i386, i686, noarch, SRPMS, etc. Copy the rpms into the appropriate directories and run create repo on that directory. [Ensure you sign your rpms with your gpg key](#). Example:

```
[user@machine] mkdir -p MyRepo/i386 MyRepo/noarch
MyRepo/i686 MyRepo/SRPMS [user@machine] mv
myrpm.noarch.rpm MyRepo/noarch [user@machine] mv
myrpm.src.rpm MyRepo/SRPMS [user@machine] mv
mybinrpm.i386.rpm MyRepo/i386 [user@machine] createrepo
MyRepo
```

Groups File (comps.xml)

Now, if you want to install all the rpms in your repo, or a specific subset, you'll need to create a groups file otherwise known as comps.xml. For our example, if we wanted myrpm.noarch.rpm to be installed by default and mybinrpm.i386.rpm to be an optional install, we would create a comps.xml file like this:

```
mygroupMyGrouptrueDefault RPMS from
MyRepotruemyrpmmybinrpm
```

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Now we need to rerun createrepo so that clients will know our group assignments.

```
[user@machine] createrepo -g comps.xml MyRepo
```

/etc/yum.repos.d

Now, if we want to install this group on a machine, we create a .repo file in /etc/yum.repos.d like this:

```
[MyRepo] name=My Repository
baseurl=http://path/to/MyRepo gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-MyRepo
```

If you didn't sign your rpms and do not wish to verify signatures, set gpgcheck=0 in your .repo file. If you did sign your rpms, then you'll need to export your gpg key into a file so yum can import the file into the rpm database.

Exporting your GPG-Key for RPM/YUM

First, find the name of your key if you don't already know it.

```
[thomas@host ~] gpg --list-keys
/home/thomas/.gnupg/pubring.gpg -----
----- pub 1024D/79E7E0DB 2007-10-08 uid Repository Owner
sub 2048g/04F5FDBA 2007-10-08
```

Then export the key into a file:

```
[thomas@host ~]$ gpg --export -a "Repository Owner" >RPM-GPG-KEY-example.org
[thomas@host ~]$ cat RPM-GPG-KEY-example.org -----BEGIN PGP PUBLIC KEY BLOCK-----
Version: GnuPG v1.4.5 (GNU/Linux)
mQGiBEcKQlgRBACLKP/FOWmTf75UjfShH84YkbLFnQqOlfdYKQ7ss57cRYn1v8lj
UoQjmPDhVLH+SpREAkDAoPjxiTln32nHoMWdIEJ/cdfBvhAg+PyHW4MCdyJu1hSO
UpqNQUTunnZ6dvTE5n/7fGepl/W24rOKzqrHqaolx8sopMbF1UUck7lySwCg12Me
HOqFXWB6iiAmYYBwxJbE90ED/0b02K4xNJ5EfrZ8YcJmFILnMfmICZiYveU4yqHY
CqtzNyCDFq6ZapNdzhAZC1VtUQGvTfXdwjXv6rs8Z3SrJDjiwboJePTQS/sfT+p
iNlhBOd/yejf4w7XgXaEbw+BVy8EzDdvEXjcBRLFoK7Dill+7Leba7G6kLcsPbr
B013A/0a+fgXYXFm8WYPsHZpG1SnPGQriwQppSVKVdeQomd7nppla0f+UjyvQboQ
Hooivc75kAWmIIVCu4IK1LugH0ke5XbbvDBw3wiSGHcS6NPISLzKXwOb53uGC47I
k1BK7aDnUnIKcEOneQSJkgfGmmzUr9jf2i8eX+LYZxgMU1eFY7QpUmVwb3NpdG9y
eSBPd25lciA8cmVwb3NpdG9yeUBleGFtcGxlMm9yZz6IYAQTEQIAIAUCRwpCWAib
AwYLCQgHAwIEFQIIAwQWAgMBAh4BAheAAAJEOC722t55+DbUnoAoLNhzDmVORR9
xh+rsz812yV78wfUAKCLhHgZM/EulsyE8UHCl0bHAKI6CLkCDQRHckJeEAgAmrgk
pBazmB6Mcm6mWds7dLXPVCRNknYz0J0NclQEA43nUveWctjpay8gs9QAfC8RLaT3
CMsCRPDGrm3tjd1KpCK/ENUHA90tctVXqPdTOJN0IEWLkPAxtA5aEzEKUXLrzn8g
```

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```
EHU6Ik9gyFjs74r4/e60OZWAEeNMn7e1XK39BO+qWVgg717pkbh4EsMjcSO6mppTc
Z92QF/Kkl0qPpLsekWnIIC666+FcDr2O/e1TUGK/dsl3UvEknBZMsHY3IEmRWVEC
68dUbz7oY1AsU2Ck5IX+UuXnInlp7jKW/eqWq1HHTfDQJ/Leb6f4tjIjfyWaqQ
F50bupAdVhgsjBA7awADBQgAjRZ11CODIZTboW/r1mdxnW9oMjvqq6xGBQ9/3PPf
WnGY6pxGNR5uuhgwl1gb2882u4ynL7DTkwuK1rg0febulpbNgqqx7sdKDSy7Xiwz
TAYE+8Q2Z1A7jlbIU0I5srFz20LMCW4xCYg5DmPqPY8BVxYGyGowBtTcO2skkyjX
BW5UWGLRxM6b5kt53jUQITC2z88BK+E2RLeZE9/Ln9fVFG1aRf9McXaQcj8jRiuR
8D30E927RosyUJ9t/IBOIkflyYqP6sYosnrZhyWAh4iDvRB5nSdruDYHawme72We
b6UggUonKXWmra6XuGKLV8Q5pCharQzj7nBKWK4NrbvFIhJBbgRAGAJBQJHCKJe
AhsMAAoJEOC722t55+DbTHkAn3Hjp5XTfcdEPVMnbPrmdQVwRjhAJ400WMSjD1E
BJSAdiy0u23Z2sераQ== +=H8a -----END PGP PUBLIC KEY
BLOCK-----
```

Then move this file to the location specified in the .repo file. Yum will install the key into the rpm database for you. To install the key manually, you can do the following:

```
[root@host thomas]# rpm --import RPM-GPG-KEY-example.org
[root@host thomas]# rpm -q gpg-pubkey gpg-pubkey-
b2980b13-3c1d0597 gpg-pubkey-f51839ac-46362566 gpg-
pubkey-79e7e0db-470a4258
```

We can see that our key (gpg-pubkey-79e7e0db-470a4258) was installed into the rpm database).

Now, to install this group.

```
[user@machine] yum groupinstall mygroup
```

This will install any default or mandatory rpms as listed in comps.xml, any optional rpms will not be installed.

Kickstart

To install our packages via kickstart, we'll need to add the repo to our kickstart file

```
repo --name=MyRepo --baseurl=http://path/to/MyRepo
```

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Comments

In your comps.xml file you

In your comps.xml file you define a custom group called 'MyGroup'. Given that, shouldn't the command to install

the RPMs in that group be ``yum groupinstall MyGroup'` instead of ``yum groupinstall myrepo'` (``myrepo'` being the repository name)?

 Andreas Roussos (not verified) |  Tue, 01/15/2008 - 10:17 | [Permalink](#)

[reply](#)

Yes, you are right, Thanks!

Yes, you are right, Thanks! I'll fix it now...as for the capitalization, it would be `mygroup` instead of `MyGroup`, `mygroup` is the id of the group and `MyGroup` is the name of the group. You use the id when issuing a `groupinstall`.
Cheers,
T.



 uphill (not verified) |  Tue, 01/15/2008 - 11:52 | [Permalink](#)

[reply](#)

Thanks for the quick reply!

Thanks for the quick reply! As for the argument to a ``yum groupinstall'` (or any `group*` sub-command for that matter), that can actually be the name or the id of a defined package group. At least that is the case with YUM 3.2.8 on Fedora 8. It's quite possible though that the YUM version / distro combination you used when writing your article did indeed suffer from that limitation.

Regards,
Andreas

 Andreas Roussos (not verified) |  Tue, 01/15/2008 - 18:46 | [Permalink](#)

[reply](#)

Thanks for this and the

Thanks for this and the previous rpm/gpg-related post.
You saved me the agony of looking through man pages all morning ;-)

 Jared (not verified) |  Mon, 09/29/2008 - 14:29 |

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[\[...\] The comps.xml file](#)

[...] The comps.xml file isn't built by fairies, but is powered by Dark Elf magic. [...]

 BlueBubble: Wha... (not verified) |  Fri, 07/01/2011 -

00:05 | [Permalink](#)

[reply](#)

[You can use the following](#)

You can use the following syntax on your mkdir command, to accomplish the same:

```
mkdir -p MyRepo/{i386,noarch,i686,SRPMS}
```

 JK (not verified) |  Wed, 12/21/2011 - 17:22 |

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[reply](#)

[disable gpgcheck when using repo kickstart?](#)

Is it possible to disable the gpgcheck when using the repo command in kickstart?

Maybe skip the packages install section and install everything via yum groupinstall in %post?

 Anonymous (not verified) |  Thu, 03/15/2012 - 01:35 |

[Permalink](#)

[reply](#)

First example

```
[user@machine] mkdir -p MyRepo/i386 MyRepo/noarch
```

```
MyRepo/i686 MyRepo/SRPMS
```

```
[user@machine] createrepo MyRepo
```

```
[user@machine] createrepo -g comps.xml MyRepo
```

Does the MyRepo in the both createrepo commands refer to the directory created in the first line?

Thanks

 Anonymous (not verified) |  Thu, 01/03/2013 - 17:58 |

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[reply](#)

Yes, correct.

Yes, correct.

 thomas |  Fri, 01/04/2013 - 12:44 | [Permalink](#)

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