Linux ---各种yum源配置详解 3793人阅读 lqbyz • 2015-12-24 15:21 • 评论(0) yum,是Yellow dog Updater, Modified 的简称,是杜克大学为了提高RPM 软件包安装性而开发的一种软件包管理器。yum 的理念是使用一个中心仓库(repository)管理一部分甚至一个distribution 的应用程序相互关系,根据计算出来的软件依赖关系进行相 关的升级、安装、删除等等操作,减少了Linux 用户一直头痛的dependencies 的问题。这一点上,yum 和apt 相同。apt 原为debia n 的deb 类型软件管理所使用,但是现在也能用到RedHat 门下的rpm 了。 yum 主要功能是更方便的添加/删除/更新RPM 包,自动解决包的倚赖性问题,便于管理大量系统的更新问题。 yum 可以同时配置多个资源库(Repository),简洁的配置文件 ( /etc/yum.conf ) ,自动解决增加或删除rpm 包时遇到的依赖性 问题,保持与RPM 数据库的一致性。 (一)yum的安装与卸载 查看该系统是否安装yum: [root@localhost ~]# rpm -qa|grep yum 2 yum-3.2.29-69.el6.centos.noarch 3 yum-metadata-parser-1.1.2-16.el6.x86\_64 yum-plugin-fastestmirror-1.1.30-30.el6.noarch 2,这表示已安装,如果没有安装的话,可以使用系统自带的ISO包来进行安装,一下操作为: 1 [root@localhost ~]# mount /dev/cdrom /mnt 2 [root@localhost ~]# 11 /mnt/Packages/ |grep yum\* 3 -r--r---. 3 root root 1019540 Feb 24 2013 yum-3.2.29-40.el6.centos.noarch.rpm -r--r--r--. 3 root root 27224 Sep 26 2011 yum-metadata-parser-1.1.2-16.el6.x86\_64.r 4 28220 Jun 25 2012 yum-plugin-fastestmirror-1.1.30-14.el6.nc -r--r--r--. 3 root root rpm -ivh yum-3.2.29-40.el6.centos.noarch.rpm yum-metadata-parser-1.1.2-16.el6.x86\_64.r [root@localhost ~]# rpm -v 3,卸载的步骤为: [root@localhost ~]# rpm -e yum-3.2.29-40.el6.centos.noarch.rpm | yum-metadata-parser-1. [root@localhost ~]# rpm -qa|grep yum [root@localhost ~]# (二) yum的配置文件的详解: yum 的配置文件分为两部分: main 和repository main 部分定义了全局配置选项,整个yum 配置文件应该只有一个main。常位于/etc/yum.conf中。 repository 部分定义了每个源/服务器的具体配置,可以有一到多个。常位于/etc/yum.repo.d 目录下的各文件中。 1 [root@localhost ~]# cat /etc/yum.conf 2 [main] 3 cachedir=/var/cache/yum //yum 缓存的目录, yum 在此存储下载的rpm 包和数据库,默认设置为/var/cache/yum 4 5 //安装完成后是否保留软件包,0为不保留(默认为0),1为保留 6 7 debuglevel=2 //Debug 信息输出等级,范围为0-10,缺省为2 8 9 logfile=/var/log/yum.log //yum 日志文件位置。用户可以到/var/log/yum.log 文件去查询过去所做的更新。 10 11 pkgpolicy=newest //包的策略。一共有两个选项,newest 和last,这个作用是如果你设置了多个repository,而同一笔 12 13 distroverpkg=redhat-release //指定一个软件包,yum 会根据这个包判断你的发行版本,默认是redhat-release,也可以是安装的 14 15 lerant=1 //有1和0两个选项,表示yum 是否容忍命令行发生与软件包有关的错误,比如你要安装1,2,3三个包, 16 17 exactarch=1 //有1和0两个选项,设置为1,则yum 只会安装和系统架构匹配的软件包,例如,yum 不会将i686的软 18 19 retries=6 //网络连接发生错误后的重试次数,如果设为0,则会无限重试。默认值为6. 20 21 //这是一个update 的参数,具体请参阅yum(8),简单的说就是相当于upgrade,允许更新陈旧的RPM( 22 23 plugins=1 //是否启用插件,默认1为允许,0表示不允许。我们一般会用yum-fastestmirror这个插件。 24 bugtracker\_url=http://bugs.centos.org/set\_project.php?project\_id=16&ref=http://bugs.ce 25 26 # Note: yum-RHN-plugin doesn't honor this. 27 metadata\_expire=1h 28 installonly\_limit = 5 29 # PUT YOUR REPOS HERE OR IN separate files named file.repo 30 # in /etc/yum.repos.d 除了上述之外,还有一些可以添加的选项,如: exclude=selinux\* // 排除某些软件在升级名单之外,可以用通配符,列表中各个项目要用空格隔开,这个对于安装了诸如美 化包,中文补丁的朋友特别有用。 gpgcheck=1 // 有1和0两个选择,分别代表是否是否进行gpg(GNU Private Guard) 校验,以确定rpm 包的来源是有效和 安全的。这个选项如果设置在[main]部分,则对每个repository都有效。默认值为0。 (三)配置本地的yum源 1,挂载安装光盘或ISO镜像 1 [root@localhost ~]# mount /dev/cdrom /mnt/ 2 mount: block device /dev/sr0 is write-protected, mounting read-only 3 mount: /dev/sr0 already mounted or /mnt/ busy 4 mount: according to mtab, /dev/sr0 is already mounted on /mnt 5 [root@localhost ~]# ll /mnt/ 6 -r--r-- 1 root root 7 14 Nov 29 2013 CentOS\_BuildTag 8 dr-xr-xr-x. 3 root root 2048 Nov 29 2013 EFI -r--r-- 1 root root 9 212 Nov 28 2013 EULA 10 -r--r--. 1 root root 18009 Nov 28 2013 GPL 11 dr-xr-xr-x. 3 root root 2048 Nov 29 2013 images 12 2048 Nov 29 2013 isolinux dr-xr-xr-x. 2 root root 13 dr-xr-xr-x. 2 root root 40960 Nov 29 2013 Packages -r--r-- 1 root root 1354 Nov 28 2013 RELEASE-NOTES-en-US.html 15 dr-xr-xr-x. 2 root root 4096 Nov 29 2013 repodata -r--r--r--. 1 root root 16 1706 Nov 28 2013 RPM-GPG-KEY-CentOS-6 17 -r--r--r--. 1 root root 1730 Nov 28 2013 RPM-GPG-KEY-CentOS-Debug-6 18 -r--r-- 1 root root 1730 Nov 28 2013 RPM-GPG-KEY-CentOS-Security-6 19 -r--r-- 1 root root 1734 Nov 28 2013 RPM-GPG-KEY-CentOS-Testing-6 -r--r--. 1 root root 3380 Nov 29 20 2013 TRANS.TBL 2,配置本地的yum源: 1 [root@localhost ~]# cd /etc/yum.repos.d/ 2 [root@localhost yum.repos.d]# 11 3 total 24 4 -rw-r--r-. 1 root root 1991 Aug 4 00:13 CentOS-Base.repo -rw-r--r-. 1 root root 647 Aug 4 00:13 CentOS-Debuginfo.repo -rw-r--r-. 1 root root 289 Aug 4 00:13 CentOS-fasttrack.repo 6 7 -rw-r--r-. 1 root root 630 Aug 4 00:13 CentOS-Media.repo -rw-r--r-. 1 root root 6259 Aug 4 00:13 CentOS-Vault.repo 8 [root@localhost yum.repos.d]# vim CentOS-Media.repo 9 10 # CentOS-Media.repo 11 12 This repo can be used with mounted DVD media, verify the mount point for # CentOS-6. You can use this repo and yum to install items directly off the 13 14 DVD ISO that we release. 15 16 # To use this repo, put in your DVD and use it with the other repos too: 17 yum --enablerepo=c6-media [command] 18 19 # or for ONLY the media repo, do this: 20 # yum --disablerepo=\\* --enablerepo=c6-media [command] 21 22 [c6-media] 23 name=CentOS-\$releasever - Media #####改成挂载的地址 24 baseurl=file:///mnt/Packages/ file:///media/cdrom/ 25 26 file:///media/cdrecorder/ 27 gpgcheck=1 ####启用本地的yum源 enabled=1 28 gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-6 29 30 -- INSERT --3,禁用默认的yum网络源,否则会现在网络中寻找合适的包,改名后直接从本地源进行读取 [root@localhost yum.repos.d]# mv CentOS-Base.repo CentOS-Base.repo.bak [root@localhost yum.repos.d]# 4,执行yum源更新命令: [root@localhost ~]# yum clean all 2 Loaded plugins: fastestmirror 3 Cleaning repos: base c6-media extras updates 4 Cleaning up Everything 5 Cleaning up list of fastest mirrors 6 [root@localhost ~]# yum makecache 7 Loaded plugins: fastestmirror 8 Determining fastest mirrors \* base: mirrors.btte.net 9 \* c6-media: 10 \* extras: mirrors.btte.net 11 12 \* updates: mirrors.nwsuaf.edu.cn 13 base 3.7 kB 14 base/group\_gz 219 kB 6.3 MB 15 base/filelists\_db 16 base/primary\_db 4.6 MB 17 base/other\_db 2.8 MB 18 [root@localhost ~]# yum update Loaded plugins: fastestmirror 19 20 Setting up Update Process 21 Loading mirror speeds from cached hostfile 22 \* base: mirrors.btte.net \* c6-media: 23 24 \* extras: mirrors.btte.net 25 \* updates: mirrors.nwsuaf.edu.cn 26 [root@localhost ~]# 备注:关于repo 文件的格式 所有repository 服务器设置都应该遵循如下格式: [serverid] name=Some name for this server baseurl=url://path/to/repository/ serverid 是用于区别各个不同的repository,必须有一个独一无二的名称; name 是对repository 的描述,支持像\$releasever \$basearch这样的变量; baseurl 是服务器设置中最重要的部分,只有设置正确,才能从上面获取软件。它的格式是: baseurl=url://server1/path/to/repository/ url://server2/path/to/repository/ url://server3/path/to/repository/ 其中url 支持的协议有 http://ftp://file:// 三种。baseurl 后可以跟多个url , 你可以自己改为速度比较快的镜像站 , 但baseurl 只 能有一个,也就是说不能像如下格式: baseurl=url://server1/path/to/repository/ baseurl=url://server2/path/to/repository/ baseurl=url://server3/path/to/repository/ 其中url 指向的目录必须是这个repository header 目录的上一级,它也支持\$releasever \$basearch 这样的变量。 url 之后可以加上多个选项,如gpgcheck、exclude、failovermethod 等,比如: [updates-released] name=Fedora Core \$releasever - \$basearch - Released Updates baseurl=http://download.atrpms.net/mirrors/fedoracore/updates/\$releasever/\$basearch http://redhat.linux.ee/pub/fedora/linux/core/updates/\$releasever/\$basearch http://fr2.rpmfind.net/linux/fedora/core/updates/\$releasever/\$basearch gpgcheck=1 exclude=gaim failovermethod=priority (四)配置国内yum源 系统默认的是国外的yum源,速度较慢,如何使用国内的yum源,以国内网易的163yum源为例: 1,下载repo文件 [root@localhost ~]# cd /etc/yum.repos.d/ [root@localhost ~]# wget http://mirrors.163.com/.help/CentOS6-Base-163.repo 2,备份并替换repo文件 [root@localhost ~]# mv CentOS-Base.repo CentOS-Base.repo.bak [root@localhost ~]# mv CentOS6-Base-163.repo CentOS-Base.repo 3 , 执行yum源更新命令 [root@localhost ~]# yum clean all root@localhost ~]# yum makecache [root@localhost ~]# yum update 4,导入GPG KEY yum 可以使用gpg 对包进行校验,确保下载包的完整性,所以我们先要到各个repository 站点找到gpg key(由于我们使用的是16 3,可以在163官网上下载然后导入即可,下图),一般都会放在首页的醒目位置,一些名字诸如RPM-GPG-KEY-CentOS-5 之类的纯 文本文件,把它们下载下来,然后用rpm --import RPM-GPG-KEY-CentOS-6 命令将key 导入 http://mirrors.163.com/centos/ 📕 手机收藏夹 🥅 有用文档 🧰 Linux 🧰 zabbix 🛅 mysql 📄 nginx 🗣 Google 🤛 VMware 🛅 ubuntu 🛅 linux性 📋 3U-Sep-2014 15:20 <u>b/</u> 5.0/ 16-Oct-2014 21:37 16-Oct-2014 21:37 5.1/ 5.10/ 16-Oct-2014 21:34 27-Sep-2014 20:52 5.11/5.2/ 16-Oct-2014 21:37 5.3/ 16-Oct-2014 21:37 5.4/ 16-Oct-2014 21:37 5.5/ 16-Oct-2014 21:37 5.6/ 16-Oct-2014 21:37 5.7/ 16-Oct-2014 21:37 5.8/ 16-Oct-2014 21:37 5.9/ 16-Oct-2014 21:38 05-Dec-2015 07:23 6/ 6.0/ 16-Oct-2014 21:42 6.1/ 16-Oct-2014 21:42 6.2/16-Oct-2014 21:42 6.3/16-Oct-2014 21:42 16-Oct-2014 21:42 6.4/6.5/05-Jan-2015 22:33 6.6/ 12-Aug-2015 20:23 6.7/ 05-Dec-2015 07:23 11-Dec-2015 08:55 7.0.1406/ 07-Apr-2015 22:24 7.1.1503/ 13-Nov-2015 21:01 7.2.1511/ 11-Dec-2015 08:55 HEADER. images/ 07-Nov-2013 23:21 12-Jun-2005 20:56 build/ 04-Apr-2007 17:45 dostools/ 12-Jun-2014 19:59 graphics/ HEADER. html 30-Sep-2014 03:27 1234 CentOS-4 RPM-GPG-27-Feb-2005 01:51 1795 -KET RPM-GPG-KEY-CentOS-5 20-Feb-2007 01:57 1504 10-Jul-2011 22:28 1706 RPM-GPG-KEY-CentOS-6 U5-Ju1-2014 UU: U1 1690 RPM-GPG-KEI-CentUS-7 RPM-GPG-KEY-CentOS-Debug-6 10-Jul-2011 22:28 1730 14-Aug-2014 22:58 RPM-GPG-KEY-CentOS-Debug-7 1005 10-Jul-2011 22:28 RPM-GPG-KEY-CentOS-Security-6 1730 RPM-GPG-KEY-CentOS-Testing-6 10-Jul-2011 22:28 1734 RPM-GPG-KEY-CentOS-Testing-7 05-Jul-2014 00:01 1690 RPM-GPG-KEY-beta 20-Feb-2007 01:56 1512 27-Feb-2005 01:51 RPM-GPG-KEY-centos4 1795 [root@localhost yum.repos.d]# wget http://mirrors.163.com/centos/RPM-GPG-KEY-CentOS-6 1 2 --2015-12-24 13:59:16-- http://mirrors.163.com/centos/RPM-GPG-KEY-CentOS-6 3 Resolving mirrors.163.com... 123.58.173.185, 123.58.173.186 Connecting to mirrors.163.com | 123.58.173.185 | :80... connected. 4 5 HTTP request sent, awaiting response... 200 OK Length: 1706 (1.7K) [application/octet-stream] 6 7 Saving to: "RPM-GPG-KEY-CentOS-6" 8 --.-K/s 2015-12-24 13:59:23 (118 MB/s) - "RPM-GPG-KEY-CentOS-6" saved [1706/1706] 9 10 [root@localhost yum.repos.d]# rpm --import RPM-GPG-KEY-CentOS-6 11 [root@localhost yum.repos.d]# 或者直接把该文件复制到/etc/pki/rpm-gpg/目录下即可 1 [root@localhost yum.repos.d]# cp RPM-GPG-KEY-CentOS-6 /etc/pki/rpm-gpg/ 备注:以下是相关的配置文件的解释 [root@localhost yum.repos.d]# more CentOS-Base.repo # CentOS-Base.repo 3 # The mirror system uses the connecting IP address of the client and the 4 # update status of each mirror to pick mirrors that are updated to and # geographically close to the client. You should use this for CentOS updates 6 7 # unless you are manually picking other mirrors. 8 9 # If the mirrorlist= does not work for you, as a fall back you can try the # remarked out baseurl= line instead. 10 11 12 13 [base] 14 name=CentOS-\$releasever - Base - 163.com baseurl=http://mirrors.163.com/centos/\$releasever/os/\$basearch/ 15 16 #mirrorlist=http://mirrorlist.centos.org/?release=\$releasever&arch=\$basearch&repo=os 17 gpgcheck=1 gpgkey=http://mirror.centos.org/centos/RPM-GPG-KEY-CentOS-6 18 19 #released updates 20 [updates] 21 name=CentOS-\$releasever - Updates - 163.com 22 baseurl=http://mirrors.163.com/centos/\$releasever/updates/\$basearch/ #mirrorlist=http://mirrorlist.centos.org/?release=\$releasever&arch=\$basearch&repo=upda 23 24 gpgcheck=1 25 gpgkey=http://mirror.centos.org/centos/RPM-GPG-KEY-CentOS-6 26 #additional packages that may be useful 27 28 name=CentOS-\$releasever - Extras - 163.com 29 baseurl=http://mirrors.163.com/centos/\$releasever/extras/\$basearch/ 30 #mirrorlist=http://mirrorlist.centos.org/?release=\$releasever&arch=\$basearch&repo=extr 31 32 gpgkey=http://mirror.centos.org/centos/RPM-GPG-KEY-CentOS-6 33 #additional packages that extend functionality of existing packages 34 [centosplus] name=CentOS-\$releasever - Plus - 163.com 35 36 baseurl=http://mirrors.163.com/centos/\$releasever/centosplus/\$basearch/ 37 #mirrorlist=http://mirrorlist.centos.org/?release=\$releasever&arch=\$basearch&repo=cent 38 gpgcheck=1 enabled=0 39 gpgkey=http://mirror.centos.org/centos/RPM-GPG-KEY-CentOS-6 40 #contrib - packages by Centos Users 41 42 [contrib] 43 name=CentOS-\$releasever - Contrib - 163.com baseurl=http://mirrors.163.com/centos/\$releasever/contrib/\$basearch/ 44 #mirrorlist=http://mirrorlist.centos.org/?release=\$releasever&arch=\$basearch&repo=cont 45 46 gpgcheck=1 47 enabled=0 48 gpgkey=http://mirror.centos.org/centos/RPM-GPG-KEY-CentOS-6 关于变量 • \$releasever:代表发行版的版本,从[main]部分的distroverpkg获取,如果没有,则根据redhat-release包进行判 \$arch: cpu体系, 如i686,athlon等 \$basearch: cpu的基本体系组,如i686和athlon同属i386,alpha和alphaev6同属alpha。 其他国内yum源列表如下: 1. 企业贡献: 搜狐开源镜像站:http://mirrors.sohu.com/ 网易开源镜像站:http://mirrors.163.com/ 2. 大学教学: 北京理工大学: http://mirror.bit.edu.cn (IPv4 only) http://mirror.bit6.edu.cn (IPv6 only) 北京交通大学: http://mirror.bjtu.edu.cn (IPv4 only) http://mirror6.bjtu.edu.cn (IPv6 only) http://debian.bjtu.edu.cn (IPv4+IPv6) 兰州大学: http://mirror.lzu.edu.cn/ 厦门大学:http://mirrors.xmu.edu.cn/ 清华大学: http://mirrors.tuna.tsinghua.edu.cn/ (IPv4+IPv6) http://mirrors.6.tuna.tsinghua.edu.cn/ (IPv6 only) http://mirrors.4.tuna.tsinghua.edu.cn/ (IPv4 only) 天津大学: http://mirror.tju.edu.cn/ 中国科学技术大学: http://mirrors.ustc.edu.cn/ (IPv4+IPv6) http://mirrors4.ustc.edu.cn/ http://mirrors6.ustc.edu.cn/ 东北大学: http://mirror.neu.edu.cn/ (IPv4 only) http://mirror.neu6.edu.cn/ (IPv6 only) 电子科技大学: http://ubuntu.uestc.edu.cn/ (五)使用第三方软件库 Centos/RHEL默认的yum软件仓库非常有限,仅仅限于发行版本那几张盘里面的常规包和一些软件包的更新,利用RpmForge,可以 增加非常多的第三方rpm软件包。RpmForge库现在已经拥有超过10000种的CentOS的软件包,被CentOS社区认为是最安全也是最 稳定的一个第三方软件库。 1、安装yum-priorities插件 这个插件是用来设置yum在调用软件源时的顺序的。因为官方提供的软件源,都是比较稳定和被推荐使用的。因此,官方源的顺序要高 于第三方源的顺序。如何保证这个顺序,就需要安装yum-priorities这插件了。 [root@localhost yum.repos.d]# yum install yum-priorities 2 Loaded plugins: fastestmirror 3 Setting up Install Process 4 Loading mirror speeds from cached hostfile 5 Resolving Dependencies 6 --> Running transaction check 7 ---> Package yum-plugin-priorities.noarch 0:1.1.30-30.el6 will be installed 8 --> Finished Dependency Resolution 9 Dependencies Resolved 10 \_\_\_\_\_\_ 11 Package Arch Version Reposito 12 \_\_\_\_\_\_\_ 13 Installing: 14 yum-plugin-priorities noarch 1.1.30-30.el6 base 15 Transaction Summary 16 17 1 Package(s) 18 Total download size: 25 k 19 Installed size: 28 k 20 Is this ok [y/N]: y 21 Downloading Packages: 22 yum-plugin-priorities-1.1.30-30.el6.noarch.rpm 25 kB 23 Running rpm\_check\_debug 24 Running Transaction Test 25 Transaction Test Succeeded 26 Running Transaction 27 Installing : yum-plugin-priorities-1.1.30-30.el6.noarch 28 Verifying : yum-plugin-priorities-1.1.30-30.el6.noarch 29 Installed: 30 yum-plugin-priorities.noarch 0:1.1.30-30.el6 31 Complete! 32 [root@localhost yum.repos.d]# 2、安装完yum-priorities插件后需要设置/etc/yum.repos.d/ 目录下的.repo相关文件(如CentOS-Base.repo),在这些文件中插 入顺序指令: priority=N (N为1到99的正整数,数值越小越优先) 一般配置[base], [addons], [updates], [extras] 的priority=1 , [CentOSplus], [contrib] 的priority=2 , 其他第三的软件源 为:priority=N(推荐N>10) 以CentOS-Base.repo 为例: [base] name=CentOS-\$releasever - Base #mirrorlist=http://mirrorlist.centos.org/?release=\$releasever&arch=\$basearch&repo=os baseurl=http://ftp.sjtu.edu.cn/centos/\$releasever/os/\$basearch/ gpgcheck=1 gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-5 priority=1 3、下载与安装相应rpmforge的rpm文件包 # wget http://pkgs.repoforge.org/rpmforge-release/rpmforge-release-0.5.2-2.el5.rf.i386.rpm 1 [root@localhost yum.repos.d]# wget http://pkgs.repoforge.org/rpmforge-release/rpmforge-2 Resolving tree.repoforge.org... 78.46.17.228 Connecting to tree.repoforge.org | 78.46.17.228 | :80... connected. HTTP request sent, awaiting response... 301 Moved Permanently Location: http://apt.sw.be/redhat/el5/en/i386/rpmforge/RPMS/rpmforge-release-0.5.2-2.e 5 --2015-12-24 14:28:26-- http://apt.sw.be/redhat/el5/en/i386/rpmforge/RPMS/rpmforge-re 6 7 Resolving apt.sw.be... 193.1.193.67 Connecting to apt.sw.be 193.1.193.67 :80... connected. 8 9 HTTP request sent, awaiting response... 200 OK Length: 12680 (12K) [application/x-redhat-package-manager] 10 11 Saving to: "rpmforge-release-0.5.2-2.el5.rf.i386.rpm" 12 100%[==========] 12,680 --.-K/s 2015-12-24 14:28:26 (400 MB/s) - "rpmforge-release-0.5.2-2.el5.rf.i386.rpm" saved [126\* 13 4 1 [root@localhost yum.repos.d]# ll 2 total 48 -rw-r--r-. 1 root root 2017 Dec 24 14:21 CentOS-Base.repo -rw-r--r-. 1 root root 1991 Aug 4 00:13 CentOS-Base.repo.bak 3 -rw-r--r-. 1 root root 647 Aug 4 00:13 CentOS-Debuginfo.repo 5 6 -rw-r--r. 1 root root 289 Aug 4 00:13 CentOS-fasttrack.repo 7 -rw-r--r-. 1 root root 641 Dec 24 14:22 CentOS-Media.repo -rw-r--r-. 1 root root 6259 Aug 4 00:13 CentOS-Vault.repo 8 -rw-r--r-. 1 root root 12680 Nov 13 2010 rpmforge-release-0.5.2-2.el5.rf.i386.rpm 9 10 -rw-r--r-. 1 root root 1706 Jul 10 2011 RPM-GPG-KEY-CentOS-6 4、安装DAG的PGP Key # rpm --import http://apt.sw.be/RPM-GPG-KEY.dag.txt [root@localhost yum.repos.d]# rpm --import http://apt.sw.be/RPM-GPG-KEY.dag.txt [root@localhost yum.repos.d]# 5、验证rpmforge的rpm文件包 # rpm -K rpmforge-release-0.5.2-2.el5.rf.\*.rpm [root@localhost yum.repos.d]# rpm -K rpmforge-release-0.5.2-2.el5.rf.i386.rpm rpmforge-release-0.5.2-2.el5.rf.i386.rpm: (sha1) dsa sha1 md5 gpg OK [root@localhost yum.repos.d]# 6、安装rpmforge的rpm文件包 # rpm -i rpmforge-release-0.5.2-2.el5.rf.i386.rpm [root@localhost yum.repos.d]# rpm -i rpmforge-release-0.5.2-2.el5.rf.i386.rpm [root@localhost yum.repos.d]# 7、设置/etc/yum.repos.d/rpmforge.repo文件中源的级别 1 [root@localhost yum.repos.d]# cat /etc/yum.repos.d/rpmforge.repo ### Name: RPMforge RPM Repository for RHEL 5 - dag 2 3 ### URL: http://rpmforge.net/ 4 5 name = RHEL \$releasever - RPMforge.net - dag 6 baseurl = http://apt.sw.be/redhat/el5/en/\$basearch/rpmforge 7 mirrorlist = http://apt.sw.be/redhat/el5/en/mirrors-rpmforge 8 #mirrorlist = file:///etc/yum.repos.d/mirrors-rpmforge 9 enabled = 110 11 gpgkey = file:///etc/pki/rpm-gpg/RPM-GPG-KEY-rpmforge-dag 12 gpgcheck = 1 13 [rpmforge-extras] 14 name = RHEL \$releasever - RPMforge.net - extras 15 baseurl = http://apt.sw.be/redhat/el5/en/\$basearch/extras 16 mirrorlist = http://apt.sw.be/redhat/el5/en/mirrors-rpmforge-extras #mirrorlist = file:///etc/yum.repos.d/mirrors-rpmforge-extras 17 18 enabled = 0 19 protect = 0 20 gpgkey = file:///etc/pki/rpm-gpg/RPM-GPG-KEY-rpmforge-dag 21 gpgcheck = 1 22 [rpmforge-testing] 23 name = RHEL \$releasever - RPMforge.net - testing 24 baseurl = http://apt.sw.be/redhat/el5/en/\$basearch/testing 25 mirrorlist = http://apt.sw.be/redhat/el5/en/mirrors-rpmforge-testing 26 #mirrorlist = file:///etc/yum.repos.d/mirrors-rpmforge-testing 27 enabled = 0 28 protect = 0 29 gpgkey = file:///etc/pki/rpm-gpg/RPM-GPG-KEY-rpmforge-dag gpgcheck = 1 30 31 [root@localhost yum.repos.d]# 8、测试安装 # yum install htop [root@localhost yum.repos.d]# yum install htop Loaded plugins: fastestmirror, priorities 3 Setting up Install Process 4 Loading mirror speeds from cached hostfile 5 \* rpmforge: ftp.riken.jp 1.9 kB 6 rpmforge 7.0 MB 7 rpmforge/primary\_db 8 2507 packages excluded due to repository priority protections 9 Resolving Dependencies 10 --> Running transaction check 11 ---> Package htop.x86\_64 0:1.0.3-1.el5.rf will be installed --> Finished Dependency Resolution 12 13 Dependencies Resolved 14 \_\_\_\_\_ Arch 15 Package Version Repository 16 \_\_\_\_\_\_ Installing: 17 18 1.0.3-1.el5.rf x86 64 19 Transaction Summary 20 \_\_\_\_\_ Install 1 Package(s) 21 22 Total download size: 97 k 23 Installed size: 207 k 24 Is this ok [y/N]: y 25 Downloading Packages: 26 htop-1.0.3-1.el5.rf.x86\_64.rpm 97 kB 27 Running rpm\_check\_debug 28 Running Transaction Test 29 Transaction Test Succeeded 30 Running Transaction Warning: RPMDB altered outside of yum. 31 32 Installing : htop-1.0.3-1.el5.rf.x86\_64 33 Verifying : htop-1.0.3-1.el5.rf.x86\_64 34 Installed: 35 htop.x86\_64 0:1.0.3-1.el5.rf 36 Complete! 37 [root@localhost yum.repos.d]# (六)yum自建仓库 1,准备材料:N个rpm包,比如我把CENTOS7安装镜像中的Packages目录复制到指定的目录 [root@localhost Packages]# mkdir /home/repo [root@localhost Packages]# cp de\* /home/repo/ 2 3 [root@localhost Packages]# 11 /home/repo/ 4 total 3284 -r--r--. 1 root root 168376 Dec 24 14:51 device-mapper-1.02.79-8.el6.x86\_64.rpm -r--r--. 1 root root 118268 Dec 24 14:51 device-mapper-event-1.02.79-8.el6.x86\_64. -r--r--. 1 root root 112840 Dec 24 14:51 device-mapper-event-libs-1.02.79-8.el6.x8 -r--r--. 1 root root 199876 Dec 24 14:51 device-mapper-libs-1.02.79-8.el6.x86\_64.r -r--r--. 1 root root 118840 Dec 24 14:51 device-mapper-multipath-0.4.9-72.el6.x86\_ -r--r---. 1 root root 184716 Dec 24 14:51 device-mapper-multipath-libs-0.4.9-72.el6 9 10 11 -r--r--. 1 root root 2444328 Dec 24 14:51 device-mapper-persistent-data-0.2.8-2.el6 \* 2,安装createrepo 1 [root@localhost yum.repos.d]# yum createrepo 3 , 使用createrepo命令创建yum仓库 1 ###-o用于指定repor A [root@localhost Packages]# createrepo -o /home/repo/ /home/repo/ 2 Spawning worker 0 with 7 pkgs 3 Workers Finished Gathering worker results 4 5 Saving Primary metadata 6 Saving file lists metadata 7 Saving other metadata 8 Generating sqlite DBs 9 Sqlite DBs complete 10 [root@localhost Packages]# 11 /home/repo/ 11 total 3288 -r--r--. 1 root root 168376 Dec 24 14:51 device-mapper-1.02.79-8.el6.x86\_64.rpm 12 13 -r--r---. 1 root root 118268 Dec 24 14:51 device-mapper-event-1.02.79-8.el6.x86\_64. -r--r--r--. 1 root root 14 112840 Dec 24 14:51 device-mapper-event-libs-1.02.79-8.el6.x8 15 -r--r--r--. 1 root root 199876 Dec 24 14:51 device-mapper-libs-1.02.79-8.el6.x86\_64.r -r--r--- 1 root root 118840 Dec 24 14:51 device-mapper-multipath-0.4.9-72.el6.x86\_ 16 17 -r--r---. 1 root root 184716 Dec 24 14:51 device-mapper-multipath-libs-0.4.9-72.el6 -r--r-- 1 root root 2444328 Dec 24 14:51 device-mapper-persistent-data-0.2.8-2.el6 18 19 drwxr-xr-x. 2 root root 4096 Dec 24 14:55 repodata [root@localhost Packages]# 3,使用vim创建yum repo文件 [root@localhost yum.repos.d]# vim CentOS-My.repo ###指定yum源名 2 3 name=my rpm base from local ###yum名字的描述 ###指定URL或使用"file://"指定本地路径,注意"/"的数量; 4 baseurl= ###不验证来源及package的完整性(由于是本地的文件) gpgcheck=0 ###启用此yum源 enable=1 4 ,清除缓存,并重新构建yum缓存 ###清除yum缓存 1 [root@localhost yum.repos.d]# yum clean all Loaded plugins: fastestmirror, priorities 2 3 Cleaning repos: base extras local rpmforge updates 4 Cleaning up Everything 5 Cleaning up list of fastest mirrors ###重建yum缓存 6 [root@localhost yum.repos.d]# yum repolist 7 Determining fastest mirrors \* rpmforge: mirror-fpt-telecom.fpt.net 8 9 3.7 kB 10 base/primary\_db 4.6 MB 2.9 kB 11 extras 12 extras/primary\_db 33 kB 13 file://home/repo/repodata/repomd.xml: [Errno 14] Could not open/read file://home/repo/ 14 Trying other mirror. file://home/repo/repodata/repomd.xml: [Errno 14] Could not open/read file://home/repo/ 15 16 Trying other mirror. 17 rpmforge 1.9 kB 18 rpmforge/primary\_db 7.0 MB 19 updates 3.4 kB 20 3.3 MB updates/primary\_db 21 repo id repo name CentOS-6 - Base - 163.com 22 base 23 extras CentOS-6 - Extras - 163.com 24 my rpm base from local ###local为自己创建的yum 源 local 25 rpmforge RHEL 6 - RPMforge.net - dag 26 updates CentOS-6 - Updates - 163.com 27 repolist: 18,984 28 [root@localhost yum.repos.d]# 备注:yum 常用的操作: 一 , yum 常用的操作 : 1, yum search keyword(关键字) 搜索 2 , yum list (all |installed |recent |updates) 列出全部的 , 安装的 , 最近的 , 软件更新的 3, yum info pachagename 显示指定软件的信息 4, yum whatprovides filename 查询哪个RPM软件包含的目标文件 5, yum remove 软件名 删除yuma安装的软件 二,创建yum仓库简单的步骤: 1,将所有的rpm包拷贝到一个文件夹中 2,通过rpm命令手工安装createrepo软件 3,运行命令createrepo -v /rpm-directory 如果有分组信息,则在运行命令的时候使用-g参数指定分组文件 createrepo -g /tmp/\*comps.xml /rpm-directory 4,CentOS/RHEL的分组信息保存在光盘repodata/目录下,文件名以comps.xml结尾的xml文件 创建好之后本机可以通过file方式使用,如果需要作为对外的yum仓库服务器,可以通过http,ftp或nfs协议共享出去。 至此yum的使用和配置完成可参考:参考 http://wiki.centos.org/AdditionalResources/Repositories/RPMForge#head-5a abf02717d5b6b12d47edbc5811404998926a1b , 非常感谢David\_Tang (http://www.cnblogs.com/mchina/archive/2013/01/04/2842275.html)