OpenNA Linux AutoUpdate

Author's: Gerhard Mourani
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Introduction
AutoUpdate is a new technology used by OpenNA Linux to provide free automatic update of RPM packages. It is a Perl script program which performs a task similar to RedHat's up2date or autorpm. It is used to automatically download and upgrade rpms from the official OpenNA FTP site and to keep a server with a customized (OpenNA) distribution plus all clients up to date.

How it works?
The AutoUpdate program will connect every days at 4:00 AM to the remote official OpenNA FTP site and compare all rpms found to the installed rpms on your system, then all updated versions of rpms you already have will be downloaded and automatically installed for you.

Does it install new RPM packages that I don't already have installed on my computer?
No, it only install what is already available and installed on your server(s), workstation(s) or desktop(s). This means for example that if a new updated version for Apache is available on the remote official OpenNA FTP server or mirrors and you don't have it installed on the type of OpenNA Linux that you have, then it will never download and install it for you even if it's available on the FTP sites as a new RPM package.

Does I have to pay for this service?
No, it's a free service offered to all OpenNA Linux users to facilitate and automate updates of OpenNA Linux 1.0 (VSLC) software.

Do you have a GPG key for AutoUpdate?
Yes, all OpenNA Linux RPM packages downloaded by AutoUpdate are GPG signed by Open Network Architecture, Inc. Our key is available at the following location:
ftp://ftp.openna.com/pub/linux/1.0/RPM-GPG-KEY

Just download it on the system under which AutoUpdate is installed, then name it RPM-GPG-KEY and issue the following command (`rpm --import RPM-GPG-KEY`) to import it into the rpm database of your server.

How to install and activate this service on my OpenNA Linux system?
Here are the steps to do to make it work on your OpenNA Linux. The following steps must be made on each OpenNA Linux system you have and from which you want to provide automatic update with the AutoUpdate software.

Step 1
First, you have to download and install AutoUpdate on your system. We provide an
RPM package for this and it is available at the following location:
ftp://ftp.openna.com/pub/linux/1.0/UPDATES/RPMS/autoupdate-5.2.16-1.i686.rpm

Download it on your system, then use the following command to install it:

- If you want to install manual pages that comes with the package, then use the
  following command:
  ```
  [root@dev /]# rpm -Uvh autoupdate-5.2.16-1.i686.rpm
  ```

- If you don't want to install manual pages that comes with the package, then use
  the following command:
  ```
  [root@dev /]# rpm -Uvh --excludedocs autoupdate-5.2.16-1.i686.rpm
  ```

Step 2
Once the AutoUpdate RPM package is installed on your system, you have to verify if
the "**perl-DB_File-1.806-1.i686.rpm**" RPM package is already installed or not.
`perl-DB_File-1.806-1.i686.rpm` is a small Perl program required by AutoUpdate
to work on your OpenNA Linux. First verify if it is already installed, and if no then
install it from your OpenNA Linux CD-ROM.

- To verify if `perl-DB_File-1.806-1.i686.rpm` is already installed on your system,
  use the following command:
  ```
  [root@dev /]# rpm -q perl-DB_File
  ```

If you get a message similar to "`package perl-DB_File is not installed`", then
you have to install it.

- To install `perl-DB_File-1.806-1.i686.rpm`, mount you CD-ROM with OpenNA
  Linux 1.0 (VSLC) CD1.
  ```
  [root@dev /]# mount /mnt/cdrom/
  [root@dev /]# cd /mnt/cdrom/openna/RPMS/
  [root@dev RPMS]# rpm -Uvh --nodeps perl-DB_File-1.806-1.i686.rpm
  [root@dev RPMS]# cd /
  [root@dev /]# umount /mnt/cdrom/
  ```

Step 3
Now, you have to be sure that your firewall allows FTP outgoing client request on
your system. This is very important because AutoUpdate use this port to make the
remote connection with the server before downloading and installing the updates.
On some type of OpenNA Linux installation, FTP outgoing client request is already
activated into the firewall and you don't have to do it, where on some other type of
OpenNA Linux installation, it is not activated by default and you have to do it.

Here are the rules to add into your firewall configuration file
(`/etc/giptables.conf`) on OpenNA Linux systems where FTP outgoing client
request is not activated.

- Edit your firewall file (`vi /etc/giptables.conf`) and add/verify the following
  lines:

```
# ***********************************************************************

    ACCEPT_FTP="yes"

# ------------------------------------------------------------------------------
# FTP outgoing client request
#

# Interface 0 FTP outgoing client request

    INTERFACE0_FTP_CLIENT="yes"

    INTERFACE0_FTP_OUT_SRC_IPADDR[0]=$INTERFACE0_IPADDR
    INTERFACE0_FTP_OUT_DST_IPADDR[0]=$ANY_IPADDR
    INTERFACE0_FTP_OUT_PASIVE[0]="yes"
    INTERFACE0_FTP_OUT_ACTIVE[0]="no"
```

Step 4
Once your firewall is configured to allow FTP outgoing client request, you have to restart it for the changes to take effect.

- To restart your firewall, use the following command:
  [root@something /]# /etc/init.d/giptables restart
  Starting up GIPTables Firewall: [OK]

Step 5
Now your OpenNA Linux is ready to use AutoUpdate and will automatically make a remote connection to the official OpenNA FTP server every days at 4:00 AM to check for possible updates related to what is installed on your system from where AutoUpdate is running.

All activities related to AutoUpdate will be logged into your log file (/var/log/messages) for your investigation. If you want to manually run AutoUpdate to be sure that it's working on your system, then use the following command.

- To manually, run AutoUpdate, use the following command:
  [root@something /]# /usr/sbin/autodld

Note: Remember that everything is automated with this software and usually you don't have to manually run the program. You can do it the first time to be sure that everything is running fine.

How to make AutoUpdate work with Proxy server?
If the computer where AutoUpdate is installed use a proxy server to get access to the
Internet, then you have to download and install additional Perl RPM packages to
make it work. `perl-libnet-1.17-1.i686.rpm`, `perl-URI-1.28-1.i686.rpm`, and
`perl-libwww-5.64-1.i686.rpm` should be installed on your system. Those Perl
packages are available to download on our FTP server locate at:
ftp://ftp.openna.com/pub/linux/1.0/UPDATES/RPMS

Step 1
Use the following command to install them:

• To install the required Perl packages, use the following commands:
[root@dev tmp]# rpm -Uvh --excludedocs perl-libnet-1.17-1.i686.rpm
[root@dev tmp]# rpm -Uvh --excludedocs perl-URI-1.28-1.i686.rpm
[root@dev tmp]# rpm -Uvh --excludedocs perl-libwww-5.64-1.i686.rpm

Step 2
Now, you have to make some modification inside the
"`/etc/autoupdate.d/autoupdate.conf`" file for AutoUpdate to activate and support
Proxy server.

• Edit the `autoupdate.conf` file and change the lines:

```
#LWPProtocols=ftp,http,https
To read:
```
LWPProtocols=ftp,http,https

```
#LWPProxy=http://proxy.my.org:3128/
To read:
```
LWPProxy=http://proxy.my.org:3128/

Where "`proxy.my.org:3128`" is your proxy domain name with the corresponding
port number on which your proxy server is listen on.

Step 3
Finally, you have to open outgoing connection for Proxy server inside your
`giptables.conf` file. Here are the rules to add into your firewall configuration file
(`/etc/giptables.conf`) on OpenNA Linux systems.

Edit your firewall file (`vi /etc/giptables.conf`) and add the following lines:

```
# ****************************************************************************

   ACCEPT_SQUID="yes"

# ----------------------------------------------------------------------------
# SQUID outgoing client request
#

# Interface 0 SQUID outgoing client request

   INTERFACE0_SQUID_CLIENT="yes"

   INTERFACE0_SQUID_OUT_SRC_IPADDR[0]=$INTERFACE0_IPADDR
   INTERFACE0_SQUID_OUT_DST_IPADDR[0]=$ANY_IPADDR
```