

# In-Place Upgrade of JPGraph, Adodb, PHP and Snort

This document was put together principally for Linux and Snort newbies. As a relative newbie myself, (though I am getting better) lack of knowledge of how to upgrade a Linux application can cost hours of labor if you believe that your only recourse to upgrading your component applications is to completely rebuild a system. In the knowledge that a system admin would MUCH rather upgrade an application in-place, rather than completely rebuild a system, this document has been developed.

Note: Doing this upgrade in the order presented will maximize your Snort uptime.

All of these steps must be done as root. You may login as root, or login as a normal user, and do an “su -“ to login as root and take on root’s environmental characteristics. Create a snort install directory. From the root’s home directory I just create “snortinstall”. Change directory into that directory and download the latest Snort distribution file. At the command line, use:

```
wget www.snort.org/dl/snort-2.0.2.tar.gz
wget www.aditus.nu/jpgraph/downloads/jpgraph-1.13.tar.gz
wget phplens.com/lens/dl/adodb390.tgz
wget www.php.net/distributions/php-4.3.3.tar.gz
```

The wget command will download each of these applications into the /root/snortinstall directory

## We will start with Snort

1. Stop Snort by typing /etc/rc.d/init.d/snort stop
2. Rename the /etc/snort directory (again, to something like oldsnort)  
rename snort oldsnort /etc/snort
3. Rename the /var/log/snort directory (don’t make me say it again)  
rename snort oldsnort /var/log/snort

```
mkdir /etc/snort
mkdir /var/log/snort
tar -xvzf snort-2.0.2.tar.gz
cd snort-2.0.2
./configure --with-mysql=/usr/local/mysql
make
make install
```

Install the rules and conf file:  
(From the Snort installation directory)

```
cd rules
cp * /etc/snort
```

```
cd ../etc
cp snort.conf /etc/snort
cp *.config /etc/snort
```

At this point you can go to your renamed directories and recover any modified rules files and your snort.conf file. This will save you a great deal of effort in duplicating your environment from prior to the upgrade.

Snort should now be re-start by typing:

```
/etc/rc.d/init.d/snort start
```

## **JPGraph and Adodb**

Stop your Apache webserver by typing: /etc/init.d/httpd stop

While in your download directory:

```
cp jpgraph-1.13.tar.gz /www/htdocs
cd /www/htdocs
tar -xvzf jpgraph-1.13.tar.gz
rm -rf jpgraph-1.13.tar.gz
cd jpgraph-1.13
rm -rf README
rm -rf QPL.txt
```

edit the acid\_conf.php file to reflect:

```
$ChartLib_path = "/www/htdocs/jpgraph-1.13/src"; (indicates the new jpgraph version)
```

cd to your snort install directory

```
cp adodb390.tgz /www/htdocs
cd /www/htdocs
rm -rf adodb (this deletes the existing directory)
tar -xvzf adodb390.tgz
rm -rf adodb390.tgz
```

## **PHP**

cd back to your snort install directory

```
tar -xvzf php-4.3.3.tar.gz
```

**These instructions MUST be in a single line:**

```
./configure --prefix=/www/php --with-apxs2=/www/bin/apxs --with-config-file-path=/www/php --enable-sockets --with-mysql=/usr/local/mysql --with-zlib-dir=/usr/local --with-gd
```

```
make  
make install  
cp php.ini-dist /www/php/php.ini
```

Your httpd.conf files should be intact and unchanged, therefore you should now start Apache by typing:

```
/etc/init.d/httpd start
```

Congratulations!! You're now back in the Snorting business.