

## All about Release Patches OVH

Release Patches are bash scripts that are downloaded and executed on a dedicated server. To make update see: SshOnDedicated

Advantages of patches :

- rapidity,
- simplicity,
- stability.

Attention! Do not apply patches if your server is personalised on the level of configuration, that is mysql, apache, php. All the options of compilation will be lost.

Attention! Some releases are security patches, if you don't install them you risk that your server will be hacked .

### Vocabulary

**Release** or patch : a script downloaded to and executed on a dedicated server. E.g.:

```
wget ftp://ftp.ovh.net/made-in-ovh/release/patch-1.38-1.39.sh -O patch-1.38-1.39.sh; sh patch-1.38-1.39.sh
```

When the script is downloaded, it verifies whether it's an appropriate version before the actual execution of it. It prevents doing release 1.38 before 1.34. The releases should be applied in order. The first one is 1.04. If you try to apply them chaotically, they won't work.

### Philosophy

For the proper functioning of releases, there is a system of blocking which only allows executing script in order. There is a file **/etc/ovhrelease** where the present release version is remembered.

The new release verifies if the one stored in the file is his predecessor.

```
root@ns30096 root# cat /etc/ovhrelease  
1.37
```

After every release, the **/etc/issue** is updated, which allows checking the release version during the connection to the server:

```
Red Hat Linux release 7.2 (Enigma)  
Linux ns30096.ovh.net 2.4.19 #2 SMP mer nov 20 17:40:06 CET 2002 i686 unknown
```

```
machine : 2344  
release : 1.37  
ip : 213.186.42.25  
hostname : ns30096.ovh.net  
root@ns30096 root#
```

You may check the release version and the IP of server using your screen and keyboard. It saves your time because there's no need to connect to the server.

## Changelog

Changelog is available at this link:

<ftp://ftp.ovh.net/made-in-ovh/release/CHANGELOG.release>

## Applying release after release

In order to apply a release, you need to connect via SSH and copy the command:

```
root@ns30096 root# wget ftp://ftp.ovh.net/made-in-ovh/release/patch-1.37-1.38.sh -O patch-1.37-1.38.sh;
sh patch-1.37-1.38.sh
[...]
```

The installation will be launched. It may take several minutes.

[...]

Arrêt de sshd : OK

Démarrage de sshd : OK

OpenSSH\_3.7.1p2, SSH protocols 1.5/2.0, OpenSSL 0.9.6i engine Feb 19 2003

```
root@ns30096 root# cat /etc/issue
```

Red Hat Linux release 7.2 (Enigma)

Linux ns30096.ovh.net 2.4.19 #2 SMP mer nov 20 17:40:06 CET 2002 i686 unknown

machine : 2344

release : 1.38

ip : 213.186.42.25

hostname : ns30096.ovh.net

We've just passed from a release 1.37 to 1.38 and a sshd server has been updated.

## Applying all releases

To avoid verification of every patch, you may execute **patch-all.sh**. It installs patches in the correct order.

```
root@ns30096 root# wget ftp://ftp.ovh.net/made-in-ovh/release/patch-all.sh -O patch-all.sh; sh patch-all.sh
[...]
```

**patch-all.sh** –it launches the system verification and installs necessary elements.

Red Hat Linux release 7.2 (Enigma)

Linux ns30096.ovh.net 2.4.19 #2 SMP mer nov 20 17:40:06 CET 2002 i686 unknown

```

machine : 2344
release : 1.39
ip : 213.186.42.25
hostname : ns30096.ovh.net
[...]
```

This is 1.39 version.

### Other functions

**Patch-all.sh** –it also sets the correct time on your server. First, the clock skew is counted, then clockspeed, installed on your server, synchronizes periodically the time using the clock skew value. Do not synchronize time too often, only rare synchronizations are fully reliable.

### Without release

Server which wasn't updated with a release, may be updated with patches. Patches are automatized scripts, tested on various platforms and able to identify them. As every server is different, there is a possibility to download, edit, modify and install the patches. If a compilation problem appears, look for help on one of our mailing lists, such as ad@ml.ovh.net. Please do not direct your questions to our technical support.

Patches are on <ftp://ftp.ovh.net/made-in-ovh/patch> . There are:

- patches for Apache (web server):

```

-rwxr-xr-x 3517 jui 7 2002 apache_1.3.26+mod_ssl-2.8.10+php_4.2.1.sh
-rwxr-xr-x 3517 jui 22 2002 apache_1.3.26+mod_ssl-2.8.10+php_4.2.2.sh
-rwxr-xr-x 3517 sep 11 2002 apache_1.3.26+mod_ssl-2.8.10+php_4.2.3.sh
-rwxr-xr-x 3656 oct 4 2002 apache_1.3.27+mod_ssl-2.8.11+php_4.2.3.sh
-rwxr-xr-x 4567 jun 20 2003 apache_1.3.27+mod_ssl-2.8.14+php_4.3.2.sh
-rwxr-xr-x 4567 aou 31 2003 apache_1.3.28+mod_ssl-2.8.15+php_4.3.3.sh
-rwxr-xr-x 4601 déc 4 21:44 apache_1.3.29+mod_ssl-2.8.16+php_4.3.4.sh
```

- patches for bind (named)

```

-rwxr-xr-x 825 jui 7 2002 named_8.3.3.sh
-rwxr-xr-x 2320 jui 22 15:55 named_9.2.1-noshell.sh
-rwxr-xr-x 2407 jui 8 2002 named_9.2.1.sh
```

- patches for ssh

```

-rw-r--r-- 2481 sep 29 02:23 rebuild-ssh-auto.sh
-rw-r--r-- 2188 mar 24 2003 rebuild-ssh-downgrad.sh
-rw-r--r-- 2564 sep 28 20:10 rebuild-ssh.sh
```

- patches for ssl

```
-rw-r--r-- 1086 mar 24 2003 rebuild-ssl-downgrad.sh
-rw-r--r-- 1079 mar 23 2003 rebuild-ssl.sh
```

- other:

```
-rw-r--r-- 1234 jun 17 12:25 patch_reboot.sh
-rw-r--r-- 403 mar 4 2002 patch_resolv.sh
-rwxr-xr-x 627 jun 2 14:28 check_reboot.sh
-rw-r--r-- 634 jui 10 2002 a_1_heure.sh
-rwxr-xr-x 2230 aou 22 2002 rc.sysinit.patch.sh
```

### Examples without release

This is a server with older ssh and openssl:

```
# ssh -V
OpenSSH_3.4p1, SSH protocols 1.5/2.0, OpenSSL 0x0090600f
```

1. openssl version

```
OpenSSL 0.9.6 24 Sep 2000
```

First the compilation of openssl is required as it's used by other applications, such as apache, ssh, qmail etc

```
# wget ftp://ftp.ovh.net/made-in-ovh/patch/rebuild-ssl.sh -O rebuild-ssl.sh
```

1. sh rebuild-ssl.sh

5 minutes later

```
# openssl version
OpenSSL 0.9.6l engine 04 Nov 2003
```

We have an appropriate version of openssl. Now it's time for ssh:

```
# wget ftp://ftp.ovh.net/made-in-ovh/patch/rebuild-ssh.sh -O rebuild-ssh.sh
```

1. sh rebuild-ssh.sh
2. ssh -V

```
OpenSSH_3.7.1p2, SSH protocols 1.5/2.0, OpenSSL 0.9.6l engine 04 Nov 2003
```

Update:

```
# uname -a
```

```
Linux ns3060.ovh.net 2.4.16 #1 lun déc 17 15:22:27 CET 2001 i686 unknown
```

1. cat /proc/cpuinfo

```
cpu MHz : 846.870
```

1. wget ftp://ftp.ovh.net/made-in-ovh/bzImage/bzImage-2.4.25-grs-piii\*]\*
2. wget ftp://ftp.ovh.net/made-in-ovh/bzImage/System.map-2.4.25-grs-piii\*\*
3. pico /etc/lilo.conf
4. /sbin/lilo
5. reboot
6. logout

```
$ ping xxxxxx
```

```
$ ssh xxxxxx
```

1. uname -a

```
Linux nsxxxx.ovh.net 2.4.21-grsec #1 mer jun 18 01:41:51 CEST 2003 i686 unknown
```

Apache compilation:

```
# wget ftp://ftp.ovh.net/made-in-ovh/patch/apache_1.3.29+mod_ssl-2.8.16+php_4.3.4.sh
```

1. sh apache\_1.3.29+mod\_ssl-2.8.16+php\_4.3.4.sh

```
cat: /etc/ovhrelease: ?aden plik ani katalog tego typu  
release tego systemu to
```

**IMPORTANT:**

verification of available version openssl:

```
OpenSSL 0.9.6l engine 04 Nov 2003
```

```
OpenSSL 0.9.6d 9 May 2002
```

Incorrect. It means there is a version compiled manually:

```
# rm -rf /usr/local/ssl
```

From the beginning:

```
# cd
```

1. sh apache\_1.3.29+mod\_ssl-2.8.16+php\_4.3.4.sh

cat: /etc/ovhrelease: No file or repertory of this type  
the release of the system is

### IMPORTANT

verification of available version openssl  
OpenSSL 0.9.6l engine 04 Nov 2003  
[...]

15 minutes later:

make1: Quitte le répertoire `/home/ovh/src/apache\_1.3.29'  
src  
If the compilation wasn't successful, you may  
install the working version using  
the commands :  
cd /home/ovh/src/apache\_1.3.29  
make install  
/etc/rc.d/init.d/httpd restart

Then check what version is the latest

/usr/local/apache/bin/httpd -v  
/usr/local/bin/php -v

3. cd /home/ovh/src/apache\_1.3.29
4. make install
5. /etc/rc.d/init.d/httpd restart

Stopping httpd: OK

Starting httpd: Syntax error on line 191 of /usr/local/apache/conf/httpd.conf:  
Missing, invalid, or non-numeric port  
FAILED

1. pico /usr/local/apache/conf/httpd.conf
2. /etc/rc.d/init.d/httpd restart

Stopping httpd: FAILED

Starting httpd: OK

1. /usr/local/apache/bin/httpd -v

Server version: Apache/1.3.29 (Unix)  
Server built: Nov 12 2003 20:31:33

1. /usr/local/bin/php -v

OVH

Zend Optimizer requires Zend Engine API version 20001224.

The Zend Engine API version 20021010 which is installed, is newer.

Contact Zend Technologies at <http://www.zend.com/> for a later version of Zend Optimizer.

PHP 4.3.4 (cgi) (built: Nov 12 2003 20:30:11)

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Zend Engine v1.3.0, Copyright (c) 1998–2003 Zend Technologies