

## How to upgrade GoDaddy VPS to CentOS 6.5

CentOS 6.5 has been released and brings many new features and security fixes.

In my case, I needed to **upgrade from CentOS 6.4 to CentOS 6.5** because I needed **php-5.4.24** (provided by remi repository), which required openssl-1.0.1 , introduced in CentOS 6.5 and unavailable in CentOS 6.4.

This HowTO explains **how to upgrade to CentOS 6.5 on GoDaddy VPS** (virtual private server, also called virtual dedicated server).

**WARNING1:** GoDaddy support discourage in doing this kind of update (and they even don't know how to do it), because they want you to use their repositories. It is not clear if further updates will break things up. **So follow this guide at your own risk.**

**WARNING2: BACKUP EVERYTHING**, a system update like this one could overwrite important configuration files (e.g: php.ini, my.cnf, httpd.conf, etc) or could even completely break your system. I updated 5 GoDaddy servers without any problem, but I don't know what will happen with yours.

**WARNING3: MAKE A FULL COPY OF YOUR SERVER**, because if something goes wrong, system could become unbootable. If you miss one or more steps, **YOUR SERVER WON'T BOOT**. If you have a custom server configuration, **YOUR SERVER MAY NOT BOOT AFTER THE UPGRADE** and you will **HAVE TO** reprovision your server, which means losing **ALL DATA** on server disk.

### Why do I need to update to CentOS 6.5?

As soon as php-5.4.24 package (by remi) has been released, yum update started to raise weird errors.

These are the errors when I issued "yum update", trying to update from php-5.4.23 to php-5.4.24 on CentOS 6.4.

```
# yum update
```

```
→ Running transaction check
```

```
→ Package php.x86_64 0:5.4.23-1.el6.remi will be updated
```

```
→ Package php.x86_64 0:5.4.24-1.el6.remi will be an update
```

```
→ Processing Dependency: libssl.so.10(libssl.so.10)(64bit) for package:  
php-5.4.24-1.el6.remi.x86_64
```

```
→ Processing Dependency: libcrypto.so.10(libcrypto.so.10)(64bit) for package:  
php-5.4.24-1.el6.remi.x86_64
```

```
→ Processing Dependency: libcrypto.so.10(OPENSSL_1.0.1)(64bit) for package:  
php-5.4.24-1.el6.remi.x86_64
```

```
—> Package php-bcmath.x86_64 0:5.4.23-1.el6.remi will be updated
—> Package php-bcmath.x86_64 0:5.4.24-1.el6.remi will be an update
—> Package php-cli.x86_64 0:5.4.23-1.el6.remi will be updated
—> Package php-cli.x86_64 0:5.4.24-1.el6.remi will be an update
-> Processing Dependency: libssl.so.10(libssl.so.10)(64bit) for package: php-
cli-5.4.24-1.el6.remi.x86_64
-> Processing Dependency: libcrypto.so.10(libcrypto.so.10)(64bit) for package: php-
cli-5.4.24-1.el6.remi.x86_64
-> Processing Dependency: libcrypto.so.10(OPENSSL_1.0.1)(64bit) for package: php-
cli-5.4.24-1.el6.remi.x86_64
—> Package php-common.x86_64 0:5.4.23-1.el6.remi will be updated
—> Package php-common.x86_64 0:5.4.24-1.el6.remi will be an update
—> Package php-devel.x86_64 0:5.4.23-1.el6.remi will be updated
—> Package php-devel.x86_64 0:5.4.24-1.el6.remi will be an update
-> Processing Dependency: libssl.so.10(libssl.so.10)(64bit) for package: php-
devel-5.4.24-1.el6.remi.x86_64
-> Processing Dependency: libcrypto.so.10(libcrypto.so.10)(64bit) for package: php-
devel-5.4.24-1.el6.remi.x86_64
-> Processing Dependency: libcrypto.so.10(OPENSSL_1.0.1)(64bit) for package: php-
devel-5.4.24-1.el6.remi.x86_64
-> Finished Dependency Resolution
Error: Package: php-5.4.24-1.el6.remi.x86_64 (remi)
Requires: libcrypto.so.10(libcrypto.so.10)(64bit)
Error: Package: php-cli-5.4.24-1.el6.remi.x86_64 (remi)
Requires: libcrypto.so.10(libcrypto.so.10)(64bit)
Error: Package: php-cli-5.4.24-1.el6.remi.x86_64 (remi)
Requires: libssl.so.10(libssl.so.10)(64bit)
Error: Package: php-5.4.24-1.el6.remi.x86_64 (remi)
Requires: libcrypto.so.10(OPENSSL_1.0.1)(64bit)
Error: Package: php-devel-5.4.24-1.el6.remi.x86_64 (remi)
Requires: libcrypto.so.10(libcrypto.so.10)(64bit)
Error: Package: php-devel-5.4.24-1.el6.remi.x86_64 (remi)
Requires: libssl.so.10(libssl.so.10)(64bit)
Error: Package: php-cli-5.4.24-1.el6.remi.x86_64 (remi)
Requires: libcrypto.so.10(OPENSSL_1.0.1)(64bit)
Error: Package: php-5.4.24-1.el6.remi.x86_64 (remi)
Requires: libssl.so.10(libssl.so.10)(64bit)
Error: Package: php-devel-5.4.24-1.el6.remi.x86_64 (remi)
Requires: libcrypto.so.10(OPENSSL_1.0.1)(64bit)
You could try using --skip-broken to work around the problem
You could try running: rpm -Va --nofiles --nodigest
```

It is clear that **php-5.4.24** requires **openssl-1.0.1**, and it's impossible to update from openssl-1.0.1 to openssl-1.0.1 on CentOS 6.4 because it's a system package.

## HowTo: Updating to CentOS 6.5 on Godaddy Virtual Private/Dedicated

## Server (VPS)

On GoDaddy VPS, issuing the command “yum update” doesn’t update to CentOS 6.5, because GoDaddy uses its own repositories, very outdated, slow and often unreachable.

### 1. Edit CentOS Base Repository

You must tweak some configuration files:

```
# vim /etc/yum.repos.d/CentOS-Base.repo
```

You need to change GoDaddy mirrorlist to default CentOS one and you’ll get the default repo file.

This is my CentOS-Base.repo after the changes:

```
# CentOS-Base.repo
#
# The mirror system uses the connecting IP address of the client and the
# 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
# unless you are manually picking other mirrors.
#
# If the mirrorlist= does not work for you, as a fall back you can try the
# remarked out baseurl= line instead.
#
#
[base]
name=CentOS-$releasever – Base
#mirrorlist=http://n1plmirror01.shr.prod.ams1.secureserver.net/vph/2/download/mirrors/c
os-$releasever-os.$basearch
mirrorlist=http://mirrorlist.centos.org/?release=$releasever&arch=$basearch&repo=os
#baseurl=http://mirror.centos.org/centos/$releasever/os/$basearch/
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-6
#released updates

[updates]
name=CentOS-$releasever – Updates
#mirrorlist=http://n1plmirror01.shr.prod.ams1.secureserver.net/vph/2/download/mirrors/c
os-$releasever-updates.$basearch
mirrorlist=http://mirrorlist.centos.org/?release=$releasever&arch=$basearch&repo=updat
es
#baseurl=http://mirror.centos.org/centos/$releasever/updates/$basearch/
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-6
```

*#additional packages that may be useful*

*[extras]*

*name=CentOS-\$releasever – Extras*

***#mirrorlist=http://n1plmirror01.shr.prod.ams1.secureserver.net/vph/2/download/mirrors/centos-\$releasever-extras.\$basearch***

***mirrorlist=http://mirrorlist.centos.org/?release=\$releasever&arch=\$basearch&repo=extras***

*#baseurl=http://mirror.centos.org/centos/\$releasever/extras/\$basearch/*

*gpgcheck=1*

*gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-6*

*#additional packages that extend functionality of existing packages*

*[centosplus]*

*name=CentOS-\$releasever – Plus*

***#mirrorlist=http://n1plmirror01.shr.prod.ams1.secureserver.net/vph/2/download/mirrors/centos-\$releasever-centosplus.\$basearch***

***mirrorlist=http://mirrorlist.centos.org/?release=\$releasever&arch=\$basearch&repo=centosplus***

*#baseurl=http://mirror.centos.org/centos/\$releasever/centosplus/\$basearch/*

*gpgcheck=1*

*enabled=0*

*gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-6*

*#contrib – packages by Centos Users*

*[contrib]*

*name=CentOS-\$releasever – Contrib*

***#mirrorlist=http://n1plmirror01.shr.prod.ams1.secureserver.net/vph/2/download/mirrors/centos-\$releasever-contrib.\$basearch***

***mirrorlist=http://mirrorlist.centos.org/?release=\$releasever&arch=\$basearch&repo=contrib***

*#baseurl=http://mirror.centos.org/centos/\$releasever/contrib/\$basearch/*

*gpgcheck=1*

*enabled=0*

*gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-6*

**WARNING:** DO NOT ISSUE “yum update” right now, or your system won’t boot anymore!

## 2. Edit yum.conf to exclude some packages from update

I found that updating iproute causes system freeze on boot. You need to tell yum not to update iproute so edit /etc/yum.conf

```
# vim /etc/yum.conf
```

If you don’t have any line starting with “exclude=”, add a line at the end of the file:

```
exclude=iproute*
```

If you already have an exclude, add **iproute\*** to it like this:

```
exclude=package1* package2* iproute*
```

This is my yum.conf file:

```
[main]
cachedir=/var/cache/yum/$basearch/$releasever
keepcache=0
debuglevel=2
logfile=/var/log/yum.log
exactarch=1
obsoletes=1
gpgcheck=1
plugins=1
installonly_limit=5
bugtracker_url=http://bugs.centos.org/set_project.php?project_id=16&ref=http://bugs.centos.org/bug_report_page.php?category=yum
distroverpkg=centos-release
exclude=iproute*
```

### 3. Update all the required packages

**WARNING:** in one of my servers, I had some problems using the command “yum update”, I was able to upgrade ONLY upgrading some packages separately.

First, check your current system:

```
# cat /etc/redhat-release
CentOS release 6.4 (Final)
```

Second, check if yum is finding all the updates:

```
# yum clean all

# yum list updates
```

You should see lot of updates, including these ones:

```
centos-release           x86_64
6-5.el6.centos.11.2      updates                20 k
glib2                    x86_64                 2.26.1-3.el6
base                      1.6 M
```

<b>openssl</b>		x86_64	1.0.1e-16.el6_5.4
updates	1.5 M		
<b>openssl-devel</b>		x86_64	1.0.1e-16.el6_5.4
updates	1.2 M		

**VERY IMPORTANT:** make sure you **don't** see any reference to *iproute* package, like this one:

<b>iproute</b>		x86_64	2.6.32-31.el6
base	365 k		

If you see it, and you update your system, **your server won't boot anymore** and **you'll need to reprovision your server, losing everything on disk!!**

### 3.a Update to CentOS 6.5 the safe way

In one of my servers, issuing the standard "yum update" made the system really unstable, so my advice is:

First: update **glibc**, **yum**, **rpm** and **python**.

Second: update all of the other packages.

```
# yum clean all
# yum update glibc* yum* rpm* python*
# yum update
```

If everything is ok, you can now reboot:

```
# reboot
```

### 3.b Update to CentOS 6.5 with some risks

Use the default update procedure, then reboot:

```
# yum update
```

```
# reboot
```

## 4. Verify a correct upgrade to CentOS 6.5

Just check everything works like expected (you may need to restore some configuration files overwritten during updates) and check CentOS Release:

```
# cat /etc/redhat-release
CentOS release 6.5 (Final)
```

## 5. Optional (untested): update to php-5.4.24 + mysql 5.5.35 (Ver 14.14)

**WARNING:** I did not test php+mysql update AFTER system upgrade (I was already using remi repo on CentOS 6.4), so I don't know if it will raise any error.

If you need latest php 5.4.\*, you need to install epel and remi repository, enable them, update php+mysql:

### 5.a: install remi and epel repositories:

```
# wget http://dl.fedoraproject.org/pub/epel/6/x86_64/epel-release-6-8.noarch.rpm
# wget http://rpms.famillecollet.com/enterprise/remi-release-6.rpm
# rpm -Uvh remi-release-6*.rpm epel-release-6*.rpm
```

### 5.b: enable remi repository

```
# vim /etc/yum.repos.d/remi.repo
```

Change enabled=0 to **enabled=1** inside the [base] section.

### 5.c: update php and mysql

```
# yum update php mysql
```

## 6. FINISH

I hope everything went fine and now you have an up-to-date GoDaddy VPS with CentOS 6.5!!