

Directadmin Migration/Upgrade CentOS 7

Version : 1.0

POST OS INSTALL

1. Change network interface to eth0

<https://blog.selipar.org/change-network-interface-from-xxx-to-eth0-in-centos-7/>

2. Set network IP

vi /etc/sysconfig/network-scripts/ifcfg-eth0

3. Set DNS

vi /etc/resolv.conf

insert:

nameserver 8.8.8.8

nameserver 8.8.4.4

4. Disable and mask firewalld

systemctl disable firewalld

systemctl mask firewalld

5. Change SSH Port

setenforce 0

vi /etc/sysconfig/selinux

*edit "enforcing" to "disabled"

vi /etc/ssh/sshd_config

*change 22 to 9321

service sshd restart

6. Set passwordless SSH to old host

New Server

ssh-keygen -t rsa

cat /root/.ssh/id_rsa.pub

*copy

Old server

vi /root/.ssh/authorized_keys

systemctl sshd restart

7. Install directadmin

yum install wget gcc gcc-c++ flex bison make bind bind-libs bind-utils openssl openssl-devel perl quota libaio \

```
libcom_err-devel libcurl-devel gd zlib-devel zip unzip libcap-devel cronie bzip2 cyrus-sasl-  
devel perl-ExtUtils-Embed \  
autoconf automake libtool which patch mailx bzip2-devel lsof glibc-headers kernel-devel  
expat-devel db4-devel psmisc net-tools systemd-devel libdb-devel perl-DBI xfsprogs rsyslog  
logrotate crontabs file -y
```

```
mkdir /ips1; cd /ips1  
wget http://www.directadmin.com/setup.sh; chmod 755 setup.sh; ./setup.sh
```

```
yum install epel* vim screen -y  
yum install nload -y
```

8. Run directadmin POST setup (custombuild)

```
cd /usr/local/directadmin/custombuild  
./build set php1_release 5.6  
./build set php1_mode mod_php  
./build set php2_release 5.3  
./build set php2_mode fastcgi  
./build set opcache yes  
./build set php_ini yes  
./build set php_timezone Asia/Kuala_Lumpur  
./build set ioncube yes  
./build set zend yes  
./build set mariadb 10.2  
./build set mysql_inst mariadb  
./build set modsecurity yes  
./build set modsecurity_ruleset no  
./build set mod_ruid2 no  
./build set clamav yes  
./build set clamav_exim no  
./build set ftpd proftpd  
./build proftpd  
./build clamav  
./build mariadb  
./build apache  
./build modsecurity  
./build php  
./build roundcube  
./build phpmyadmin
```

9. Install Directadmin brute force

<https://help.directadmin.com/item.php?id=380>

10. Install Vaderetro

<http://tech.ipserverone.net/wiki/how-to-install-vaderetro/>

11. Install Let'sencrypt Directadmin plugin

```
echo "letsencrypt=1" >> /usr/local/directadmin/conf/directadmin.conf
echo "action=directadmin&value=restart" >> /usr/local/directadmin/data/task.queue;
/usr/local/directadmin/dataskq d2000
cd /usr/local/directadmin/custombuild
./build rewrite_confs
cd /usr/local/directadmin/custombuild
./build update
./build letsencrypt
```

12. Create a backup from old server

- Deselect admin

13. SCP restore tar.gz from new server to old server

```
scp -P 9321 root@x.x.x.x:/home/admin/admin\_backups /home/admin/admin_backups
```

14. Restore tar.gz on new server

```
cd /home/admin/admin_backups
```

```
chown admin. *.tar.gz
```

*Open directadmin on new server -> Backup -> Select shared IP and all files -> Restore

** Restore reseller account first before restoring client files

14. Stop all services (New server)

```
systemctl stop crond
```

```
systemctl stop directadmin
```

```
systemctl stop exim
```

```
systemctl stop dovecot
```

```
systemctl stop proftpd
```

```
systemctl stop vrsnmd
```

15. Download all rsync file

```
mkdir -p /ips1/zzmigrations
```

```
cd /ips1/zzmigrations
```

```
wget https://git.ipfusions.com/mzulfahmy/migrations-directadmin/raw/master/downloads/rsync-cutover-tools.tar.gz
```

```
tar xvf rsync-cutover-tools.tar.gz
```

16. Edit rsync file

- Applicable for script no 1, 2 and 3 only.
- Check .lists file correctly with the reseller.
- Double check path.

- Make sure running this script on new server.

17. Add vaderetro config

```
vi /etc/vaderetro/blacklist/current.conf
```

```
[whitedomain]
```

```
[blackdomain]
```

```
[blackfrom]
```

```
[whitefrom]
```

18. Install alternate PHP

```
cd /usr/local/directadmin/custombuild
```

```
./build freetype
```

```
yum install freetype-devel -y
```

```
cd /usr/local/directadmin/custombuild
```

```
wget http://files.directadmin.com/services/custombuild/php-5.4.45.tar.gz
```

```
tar xvf php-5.4.45.tar.gz
```

```
cd php-5.4.45
```

```
cp ../configure/fastcgi/configure.php54 ./
```

```
chmod 755 configure.php54
```

```
./configure.php54
```

```
make
```

```
make install
```

```
cd /usr/local/safe-bin
```

```
cp /usr/local/directadmin/custombuild/configure/fastcgi/fcgid54.sh ./
```

```
chown apache. fcgid54.sh
```

```
chmod 555 fcgid54.sh
```

```
cd /usr/local/directadmin/custombuild
```

```
wget http://files.directadmin.com/services/custombuild/php-5.5.38.tar.gz
```

```
tar xvf php-5.5.38.tar.gz
```

```
cd php-5.5.38
```

```
cp ../configure/fastcgi/configure.php55 ./
```

```
chmod 755 configure.php55
```

```
./configure.php55
```

```
make
```

```
make install
```

```
cd /usr/local/safe-bin
```

```
cp /usr/local/directadmin/custombuild/configure/fastcgi/fcgid55.sh ./
```

```
chown apache. fcgid55.sh
```

```
chmod 555 fcgid55.sh
```

19. Install ModSecurity CRS

<http://tech.ipserverone.net/wiki/how-to-add-crs-owasp-modsecurity/>

CUTOVER STEPS

1. Stop all services on both server

```
systemctl stop crond  
systemctl stop directadmin  
systemctl stop exim  
systemctl stop dovecot  
systemctl stop proftpd  
systemctl stop vrsnampd
```

2. Run final sync

- 1-rsync-home.sh (/home)
- 2-rsync-webmail (/var/www/html/webmail)
- 3-rsync-installatron (/var/installatron)

3. Run list mysql user (4-mysql-list.sh) *run on old server

- Insert MySQL da_admin password
- cat /usr/local/directadmin/conf/my.cnf

4. Remove information_schema at dbList.txt

- vi dbList.txt
- remove information_schema, mysql, da_roundcube

5. Dump mysql (5-mysql-dump.sh) *old server **run on screen

6. SCP dumped mysql to new server *scp pull **run on screen

```
scp -P 9321 root@ip:/ips1/zzmigration/mysqldump /ips1/zzmigration/mysqldump
```

7. Restore mysql dump to new server (6-mysql-restore.sh)

8. Iptables directadmin

```
cd /usr/libexec/iptables/; mv iptables.init iptables.init.backup1; wget  
https://git.ipfusions.com/mzulfahmy/migrations-directadmin/raw/master/iptables.init;  
chmod 755 iptables.init
```

```
service iptables restart
```

9. Fix directadmin config and ssl

```
cd /usr/local/directadmin/conf/; mv directadmin.conf directadmin.conf.default; mv  
cakey.pem cakey.pem.backup; mv cacert.pem cacert.pem.backup  
wget https://git.ipfusions.com/mzulfahmy/migrations-directadmin/raw/master/directadmin.conf  
wget https://git.ipfusions.com/mzulfahmy/migrations-directadmin/raw/master/cakey.pem
```

```
wget https://git.ipfusions.com/mzulfahmy/migrations-directadmin/raw/master/cacert.pem
```

```
chown diradmin. directadmin.conf;chown diradmin. cakey.pem;chown diradmin.  
cacert.pem
```

```
cd /etc/httpd/conf/ssl.crt; mv server.ca server.ca_backup ;mv server.crt server.crt_backup
```

```
cd /etc/httpd/conf/ssl.key; mv server.key server.key_backup
```

```
cd /etc/httpd/conf/ssl.crt
```

```
wget https://git.ipfusions.com/mzulfahmy/migrations-directadmin/raw/master/server.ca
```

```
wget https://git.ipfusions.com/mzulfahmy/migrations-directadmin/raw/master/server.crt
```

```
cd /etc/httpd/conf/ssl.key
```

```
wget https://git.ipfusions.com/mzulfahmy/migrations-directadmin/raw/master/server.key
```

10. Fix httpd config and php.ini

```
cd /etc/httpd/conf/extra; mv httpd-alias.conf httpd-alias.conf.default
```

```
wget https://git.ipfusions.com/mzulfahmy/migrations-directadmin/raw/master/httpd-  
alias.conf
```

```
cd /etc/httpd/conf; mv httpd.conf httpd.conf.default
```

```
wget https://git.ipfusions.com/mzulfahmy/migrations-directadmin/raw/master/httpd.conf
```

*check httpd.conf IP. Make sure IP same with server IP on IPS1 Custom rules

php.ini change *all PHP version

```
vi /usr/local/lib/php.ini
```

EDIT :

```
date.timezone = "Asia/Kuala_Lumpur"
```

```
expose_php = off
```

11. Open exim port

```
cd /etc; mv exim.cert exim.cert.backup; mv exim.key exim.key.backup;
```

```
wget https://git.ipfusions.com/mzulfahmy/migrations-directadmin/raw/master/exim.cert
```

```
wget https://git.ipfusions.com/mzulfahmy/migrations-directadmin/raw/master/exim.key
```

```
chown mail. exim.cert; chown mail. exim.key
```

```
##edit
```

```
vi /etc/exim.conf
```

```
daemon_smtp_ports = 25 : 26 : 2525 : 587 : 465
remove "chunking_advertise_hosts"
```

12. add cp.* index

```
mkdir -p /var/www/html/cp;cd /var/www/html/cp;
wget https://git.ipfusions.com/mzulfahmy/migrations-directadmin/raw/master/index.php
vi index.php
```

*change according hostname

13. Repair installatron

```
rm -fr /usr/local/installatron/lib /usr/local/installatron/etc/php.ini
curl -O https://data.installatron.com/installatron-plugin.sh
chmod +x installatron-plugin.sh
./installatron-plugin.sh -f --quick
```

14. Add isupport users

```
adduser isupport
passwd isupport *change isupport password
```

```
visudo
**** ADD ****
```

```
## Same thing without a password
# %wheel    ALL=(ALL)    NOPASSWD: ALL
isupport    ALL=(ALL)    NOPASSWD: ALL
```

```
**** ADD ****
```

```
vi /etc/ssh/sshd_config
```

add at bottom

AllowUsers isupport

++++++ LAST STEP ++++++

Script Path = /usr/local/directadmin/scripts

*make sure has a IKVM/IPMI/VNC on both server
**make sure all IP is down

1. Down network interface on old server (use vnc)
-ifconfig eth0 down

2. Swap IP from old to new server
 - /etc/sysconfig/network-scripts/ifcfg-eth0
3. run ./ipswap.sh on new server
4. run ./getLicense.sh
5. start all service back
6. verify
7. change password admin directadmin
8. make sure webmail path and directory same as old server

==== ZULFAHMY NOTES

- If httpd cannot start try to
journalctl -xe (see the error)
- to remove old fcgi config
cd /usr/local/directadmin/data
find . -name "*.cust_httpd" -exec grep fcgid {} \; -print

* vi and remove the fcgi line

service crond start
echo "action=rewrite&value=httpd" >> /usr/local/directadmin/data/task.queue

** wait until task is done
- to check old server using what PHP
cd /fcgi
find . -type f -printf "%p\n" -exec cat {} \;

==== KHAI NOTES

- final sync (home, webmail, installatron and DBs)
- replace default SSL certificate with *.small-dns.com for proftpd, exim, dovecot, directadmin and apache (*included*)
 - open additional port for EXIM, 2525 & 26
 - add custom httpd config for webmail.* and cp.* (*dalam httpd.conf, included)
 - disable mod_security for webmail.* (*dalam httpd.conf, included)
 - repair installatron after swap IP
 - create test account for email, ftp and database then verify

POST OS INSTALL CHECKLIST

NO	ACTIVITY	PASS	FAIL
1	Change network interface to eth0		
2	Set network IP		
3	Set DNS		
4	Disable and mask firewall		
5	Change SSH Port		
6	Set passwordless SSH to old host		
7	Install directadmin		
8	Run directadmin POST setup (custombuild)		
9	Install Directadmin bruteforce		
10	Install Vaderetro		
11	Install Let'sencrypt Directadmin plugin		
12	Create a backup from old server		
13	SCP restore tar.gz from new server to old server		
14	Stop all services		
15	Download all rsync file		
16	Edit rsync file		
17	Add Vaderetro config		
18	Install alternate PHP		
19	Install ModSecurity CRS		

CUTOVER STEPS CHECKLIST

NO	ACTIVITY	PASS	FAIL
1	Stop all services on both server		
2	Run final sync		
3	Run list mysql user		
4	Remove information_schema at dbList.txt		
5	Dump MySQL		
6	SCP dumped mysql to new server		
7	Restore mysql dump to new server		
8	IPTables Directadmin		
9	Fix directadmin config and ssl		
10	Fix httpd config and php.ini		
11	Open Exim port		
12	Add cp.* index		
13	Repair installatron		
14	Add isupport users		
15	Start all service		
16	Verify all service are up and working		