

mepoadm / August 09, 2013 11:30PM

[Backup and Transfer a LAMP\(LAPP\) System: Linux/Apache2/PostgreSQL/PHP](#)

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Assume we have an installed Linux system on hand. We have six parts to transfer: (1) User accounts; (2) User files (/home); (3) Database; (4) Apache; (5) PHP; and (6) crontab.

## 1. User accounts

Copy and transfer the following user-related files and directories:

`./etc/passwd` - File - contains various pieces of information for each user account  
`./etc/shadow` - File - contains the encrypted password (and aging) information for user's accounts.  
`./etc/group` - File - defines the groups to which users belong  
`./etc/gshadow` - group shadow file (contains the encrypted password for group)  
`./var/spool/mail` - Generally user emails are stored here.  
`./home` - All Users data is stored here.

Do remember to "preserve (-p)" file info (permissions, owner, etc) in the transfer. Do not copy-and-paste the passwd/shadow files directly. It's recommended to only attach the human-added users into the new system user account files.

## 2. User Files (/home)

(1) rsync

Transfer a certain user folder:

```
rsync -av /home/user/ account@domain:/home/user/
```

Or

(2) Tar

```
cd /
```

```
tar -cvpf /archive_folter/home-YYYYMMDD.tar home --exclude=home/exclude_foler
```

Untar:

```
cd /destination_folder
```

```
tar -xvpf home-YYYYMMDD.tar
```

## 3. Database (PostgreSQL)

Backup (export):

```
Shell> pg_dumpall -U postgres | bzip2 > cluster_YYYYMMDD.bz2
```

Transfer (scp) and unzip (bzip2 -d) the database cluster file.

Restore (import):

```
Shell> psql -f cluster_YYYYMMDD -U postgres postgres
```

Config:

shared\_buffers = 2GB (1/4 of the memory is a reasonable starting value)

work\_mem = 25MB

effective\_cache\_size = 4GB ( 1/2 of total memory would be a normal setting)

Password File:

~/.pgpass

## 4. Web Server (Apache)

(1) Configuration:

```
/etc/apache2/*.conf
```

```
/etc/apache2/vhost.conf/*.conf
```

(2) Modules:

```
vi /etc/sysconfig/apache
```

Add APACHE\_MODULES: php5, headers, rewrite

Set APACHE\_SERVER\_FLAGS="SSL"

(3) Remove manual directory:

```
mv /etc/apache2/conf.d/manual.conf /etc/apache2/conf.d/manual.conf.ori
```

## 5. PHP

1. Install the modules:

```
zypper install php7-curl php7-gb php7-mbstring php-openssl php7-pgsql
```

2. Edit php.ini (/etc/php5/cli/php.ini)

```
short_open_tag = On
```

```
output_handler = ob_gzhandler
```

```
memory_limit = 512M
```

```
upload_max_filesize = 8M
```

```
date.timezone = 'Asia/Taipei'
```

```
session.cookie_secure = 1
```

```
session.cookie_httponly = 1
```

## 6. crontab

(1) Edit crontab

```
crontab -e  
(2) Add jobs
```

```
0 0 * * * pg_dump -U postgres database > database_$(date +%Y%m%d%H).sql
```

## 7. References

User Accounts:

<http://www.cyberciti.biz/faq/howto-move-migrate-user-accounts-old-to-new-server/>

<http://serverfault.com/questions/19274/how-to-transfer-user-accounts-to-a-new-linux-machine>

Disk Partitioning:

<https://help.ubuntu.com/community/DiskSpace>

Database:

[https://wiki.postgresql.org/wiki/Tuning\\_Your\\_PostgreSQL\\_Server](https://wiki.postgresql.org/wiki/Tuning_Your_PostgreSQL_Server)

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