

— Installation manual — *Andman - andman@ppnnet.net 2005/08/03 06:31*

## Radius

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First step:

You need to download and install the latest version of FreeRadius [<http://www.freeradius.org>]

```
server$ tar zxvf freeradius-1.0.1.tar.gz
server$ ./configure --prefix=/usr/local/radiusd/
server$ make
```

(here you need to become superuser root)

```
server# make install
```

If you don't see any errors - congratulations you have successfully installed radius server:

Next step is to configure radius server:

```
server# vi /usr/local/radiusd/etc/raddb/users
```

```
DEFAULT Auth-Type = Accept
Exec-Program-Wait = "/usr/abills/libexec/rauth.pl"
```

```
server# vi /usr/local/radiusd/etc/raddb/acct_users
```

```
DEFAULT Acct-Status-Type == Start
Exec-Program = "/usr/abills/libexec/racct.pl"
DEFAULT Acct-Status-Type == Alive
Exec-Program = "/usr/abills/libexec/racct.pl"
DEFAULT Acct-Status-Type == Stop
Exec-Program = "/usr/abills/libexec/racct.pl"
```

```
server# vi /usr/local/radiusd/etc/raddb/clients.conf
```

Put the IP or the name of your NAS server:

```
client nashost.nasdomain {
    secret = radsecret
    shortname = shorrname
}
```

```
server# vi /usr/local/radiusd/etc/raddb/radiusd.conf
```

The following lines have to be commented:

```
authorize {
    preprocess
    # chap
    # counter
    # attr_filter
    # eap
    suffix
    files
    # etc_smbpasswd
    # sql
    # mschap
```

```
| }  
|-----|
```

## MySQL

---

Download the tarball from [<http://www.mysql.com>]

```
server$ tar xvfz mysql-4.0.23a.tar.gz  
server$ cd mysql-4.0.23a  
server$ ./configure  
server$ make  
server# make install
```

Create user and database:

```
use mysql; INSERT INTO user (Host, User, Password) VALUES ('%','abills', password('sqlpassword')); INSERT INTO  
db (Host, Db, User, Select_priv, Insert_priv, Update_priv, Delete_priv, Create_priv, Drop_priv, Index_priv,  
Alter_priv) VALUES ('localhost', 'abills', 'abills', 'Y', 'Y', 'Y', 'Y', 'Y', 'Y', 'Y', 'Y', 'Y');  
CREATE DATABASE abills;
```

```
server# mysqladmin flush-privileges;
```

Create tables in the database:

```
server# mysql -D abills < abills.sql
```

## Web Server

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### Apache

---

In our case using Apache and must edit **httpd.conf**:

```
Alias /billing "/usr/abills/cgi-bin/"  
<Directory "/usr/abills/cgi-bin">  
  <IfModule mod_rewrite.c>  
    RewriteEngine on  
    RewriteCond %{HTTP:Authorization} ^(.*)  
    RewriteRule ^(.*) - [E=HTTP_CGI_AUTHORIZATION:%1]  
    Options Indexes ExecCGI SymLinksIfOwnerMatch  
  </IfModule>  
  Options Indexes ExecCGI FollowSymLinks  
  AllowOverride none  
  DirectoryIndex users.cgi  
  AddHandler cgi-script .cgi  
  Order allow,deny  
  Allow from all  
</Directory>
```

```
<Directory "/usr/abills/cgi-bin/admin">  
  Options Indexes ExecCGI SymLinksIfOwnerMatch  
  AllowOverride none  
  DirectoryIndex users.cgi  
  order deny,allow  
  deny from all  
  AuthType Basic
```

```
| AuthName "ABills"
| AuthUserFile /usr/abills/cgi-bin/admin/admins
| Satisfy Any
| require valid-user
| </Directory>
```

## Perl modules

You need install some perl modules before proceed:

<b>DBI</b>	
<b>DBD::mysql</b>	
<b>Digest-MD5</b>	for Chap authorization
<b>Digest-MD4</b>	for MS-Chap authorization
<b>Crypt-DES</b>	for MS-Chap authorization
<b>Digest-SHA1</b>	for MS-ChapV2 authorization
<b>libnet</b>	Only for UNIX type authorization
<b>Time-HiRes</b>	Show authorization,page generation time.

Download it from [<http://www.cpan.org>]

## ABills

Download it from [<http://sourceforge.net/projects/abills/>]

```
server$ tar zxvf abills-0.24b.tgz
server# cp -Rf abills /usr/
```

```
server# vi /usr/abills/libexec/config.pl
```

```
#DB configuration
$conf{dbhost}='localhost';
$conf{dbname}='abills';
$conf{dblogin}='abills';
$conf{dbpasswd}='sqlpassword';
$conf{ADMIN_MAIL}='info@your.domain';
$conf{USERS_MAIL_DOMAIN}="your.domain";
$conf{secretkey}="test12345678901234567890";
```

```
server# vi /usr/abills/cgi-bin/admin/Abwconf.pm
```

```
$dbhost='localhost';
$dbname='abills';
$dbuser='abills';
$dbpasswd='sqlpassword';
$mail_domain='your.domain';
$mail_from='abills@your.domain';
```

```
server# vi /etc/crontab
*/5 * * * * root /usr/abills/libexec/billd -all
1 0 * * * root /usr/abills/libexec/periodic daily
1 0 1 * * root /usr/abills/libexec/periodic monthly
```

Change the permissions:

```
server# chown -Rf www /usr/abills/cgi-bin
```

File **/usr/abills/cgi-bin/admin/admins** contain admin's password:

```
server# htpasswd -c /usr/abills/cgi-bin/admin/admins admin
```

Go to web your interface **<http://your.host/billing/admin/>**

First of all must fill the parameters for NAS server:

Going to menu:

### Other→NAS configuration

IP	NAS server IP
Name	Name
Radius NAS-Identifier	NAS-Identifier (can be empty)
Describe	Server description
Type	Server type
Authorization	Type of authorization. <b>SYSTEM</b> - UNIX type (/etc/passwd) <b>SQL</b> - use SQL database (MySQL, PostgreSQL)
:Manage:	NAS server management
IP:PORT	IP address and port to control connections.
User	Username
Password	Password
RADIUS Parameters	Further parameters for NAS after login.

Create tariff plans:

Menu:

### Tarif Plans

Register a customer:

### Users→Add

### Testing

```
server# radtest testuser testpassword 127.0.0.1:1812 0 radsecret 0 127.0.0.1
```

See '**/usr/abills/var/log/abills.log**' for more details (errors,messages)

```
2005-08-03 12:55:55 LOG_INFO: AUTH [testuser] NAS: 1 (xxx.xxx.xxx.xxx) GT: 0.03799
```

From:  
<http://abills.net.ua/wiki/> - **Advanced Billing Solution**

Permanent link:  
**<http://abills.net.ua/wiki/doku.php/abills:docs:manual:install:en>**

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