Contents

1 System

Our starting point is a Windows 2000 Server with installed IIS (**??**), critical updates and security updates, also WinZip (**??**) is needed.

An additional thing we do, because i like it (and all other unix admins would do), is to activate the command line completation:
Change in **HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Command Processor**
CompletionChar from **40** to **9**

All data will be in D:\pool .

2 Software

Here follow the instructions and lists what software we use and what is to do to get it running.

2.1 Perl

Perl is used for our CMS (Imperia).

2.1.1 Installation

Download perl: http://downloads.activestate.com/ActivePerl/Windows/5.6/ActivePerl-5.6.1.633-MSWin32-x86.msi

2.1.2 IIS Configuration

In the properties of the master server add in:

master-¿edit-¿homedirectory-¿configuration-¿add
Executable = C:\Perl\bin\perl.exe %s %s
Extension = .pl and .cgi
(Add this two times for each extension)

2.1.3 Modules

To install the needed Perl modules open a command shell and do:

```
> set HTTP_proxy=http://172.17.11.20:3128
> set HTTP_proxy_user=*USERNAME*
> set HTTP_proxy_pass=*PASSWORD*
> ppm install DBI
> ppm install DBD-Mysql
> ppm install HTML-Template
> ppm install GD
```

Or without web access download these files:
http://www.activestate.com/PPMPackages/zips/6xx-builds-only/DBI.zip
http://www.activestate.com/PPMPackages/zips/6xx-builds-only/DBD-Mysql.zip
http://www.activestate.com/PPMPackages/zips/6xx-builds-only/HTML-Template.zip
http://www.activestate.com/PPMPackages/zips/6xx-builds-only/GD.zip

unzip them all and open command line, change to the directory where the files are located and do:
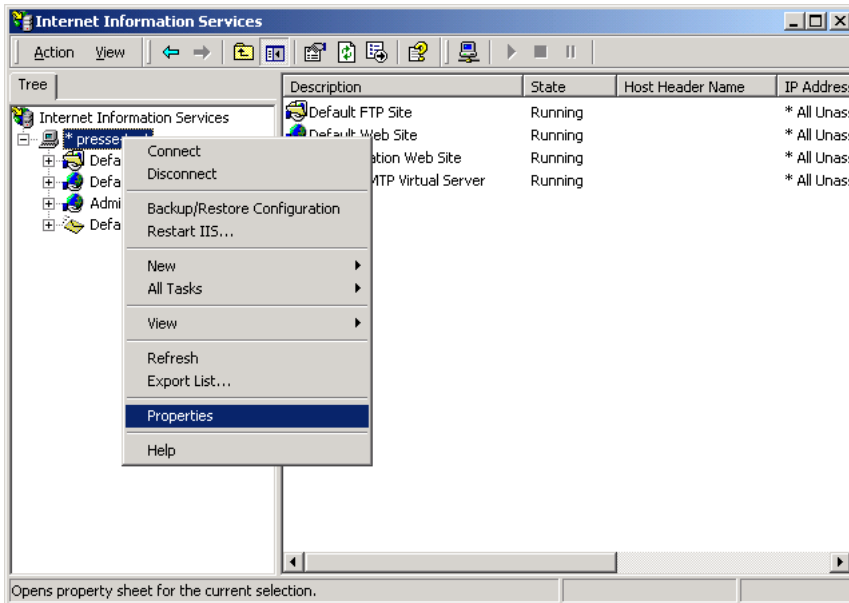
```
ppm install <filename.ppd>
```

2.2 PHP

We use php for many dynamic pages.

2.2.1 Installation

Download: http://www.php.net/get_download.php?df=php-4.2.3-Win32.zip

Unpack to C:\PHP

Under ISAPI Filters, add a new ISAPI filter. Use PHP as the filter name, and supply a path to the php4isapi.dll.
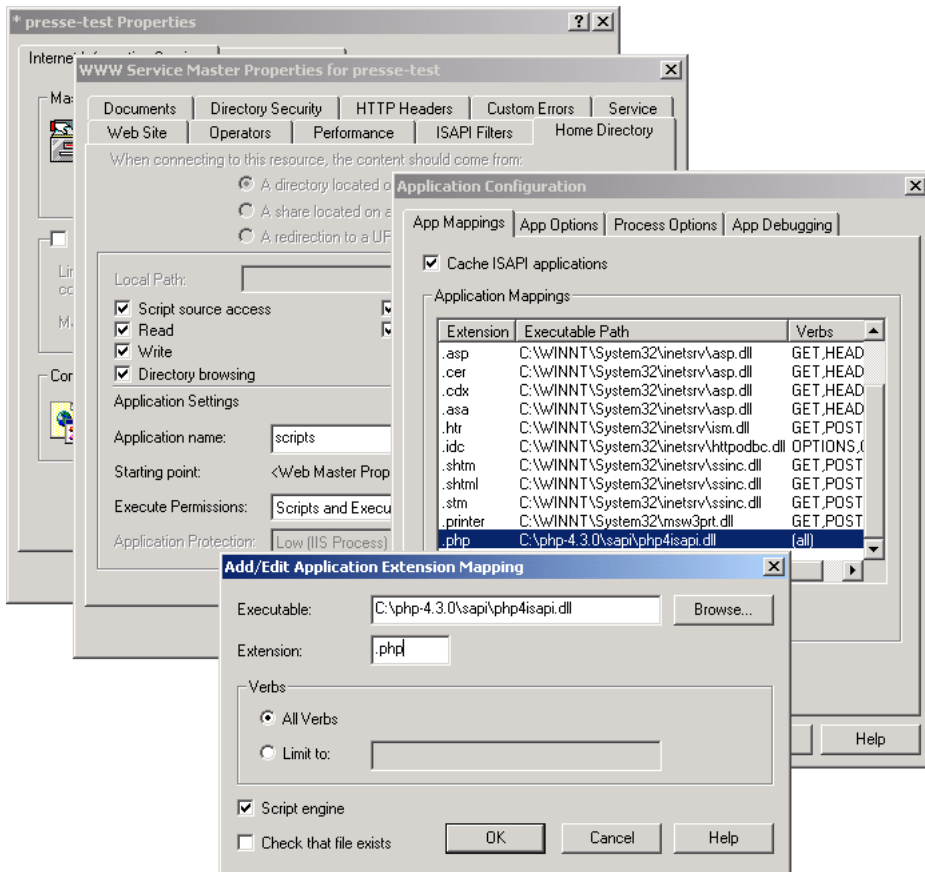

Under 'Home Directory' (im Master-Server), click on the 'Configuration' button. Add a new entry to the Application Mappings. Use the path to the php4isapi.dll as the Executable, supply .php as the extension, leave Method exclusions blank, and check the Script engine checkbox.
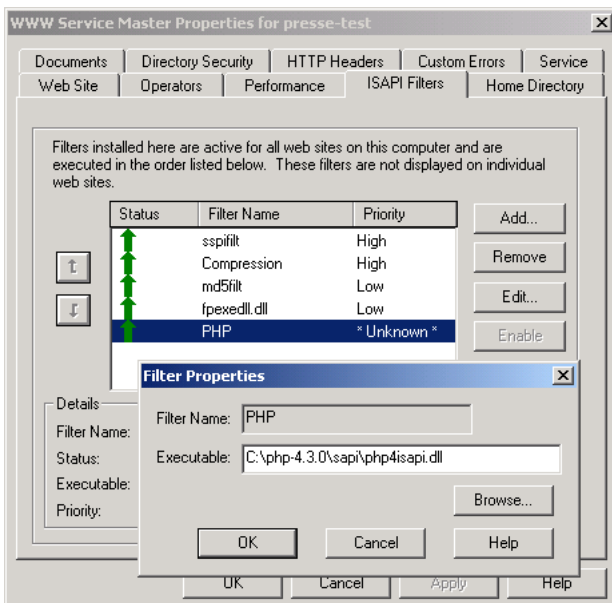
Add php mapping to all virtual hosts.

Copy C:\php\php4ts.dll to C:\winnt\system32\.

2.2.2 Configuration

Copy php.ini-dist to C:\winnt\php.ini

And change the line

```
register_globals = Off
```

to

```
register_globals = On
```

And restart IIS (**??**)

2.2.3 Checking

To check if php works, add a file to a public dircetory in a virtual host where php is activated with the following content:

```
<? phpinfo(); ?>
```

and open http://virtualhost/filename.php. You should see the php infos in the browser.

2.3 FTP

We use a free FTP server and not the IIS crap, because we need more then one real account.

2.3.1 Installation

Download warftpd from http://www.warftp.org/ , install as service and add the users

2.4 Imperia

Imperia is our CMS.

2.4.1 Install service

Copy **instsrv.exe** and **srvany.exe** (located in CDROM:\compmgmt.cab) to C:\winnt\system32 .

And on the command line do:

```
instsrv ImperiaCoktel C:\WINNT\system32\srvany.exe
instsrv ImperiaSierra C:\WINNT\system32\srvany.exe
instsrv ImperiaSierrahome C:\WINNT\system32\srvany.exe
```

2.4.2 Configuration

You need to adjust a few things in the registy.

In **HKLM\System\CurrentControlSet\Services** add a kay named **Parameters**.

In **HKLM\System\CurrentControlSet\Services\Paramaters** add a string named **Application** with the content **C:\perl\bin\perl.exe D:\pool\www.coktel.de\cgi-bin\site_hermes.pl**

Do the same for Sierra and Sierrahome.

2.5   Chat

We use a java application for our online chat.

2.5.1   Configuration

Add a virtual directory in the virtual host:

sitesticky -¿ C:\pool\addons\sitesticky

further another virtual dir in directory **chat**: applet -¿ C:\pool\addons\sitesticky\applet

2.6 Jakarta

This is the server for our java applications.

2.6.1 Installation

Install like described here: http://members.ozemail.com.au/ lampante/howto/tomcat/iisnt/

Needes files:
Jakarta-Tomcat: http://jakarta.apache.org/builds/jakarta-tomcat-4.0/release/v4.0.6/bin/jakarta-tomcat-4.0.6.exe
Tomcat-IIS-Connector: http://members.ozemail.com.au/ lampante/howto/tomcat/iisnt/tc4ntiis.zip
Java 1.4.1: http://java.sun.com/j2se/1.4.1/download.html (international SDK)

2.6.2 Java

Install the JDK to C:\j2sdk1.4.1

2.6.3 Jakarta-Tomcat

Install to C:\tomcat4.0

2.6.4 Connector

Unpack to C:\tomcat4.0.
In C:\tomcat4.0\conf\jk\wrapper.properties changeto this:

```
wrapper.tomcat_home=c:\tomcat4.0
wrapper.java_home=c:\j2sdk1.4.1
```

And on the command line do:

```
C:\tomcat4.0\conf\jk> jk_nt_service -i tomcat -a wrapper.properties
C:\tomcat4.0\conf\jk> jk_nt_service -s tomcat
```

In C:\tomcat4.0\conf\ntiis\uriworkermap.properties chane to this:

```
/sitesticky=$(default.worker)
/sitesticky/*=$(default.worker)
```

In C:\tomcat4.0\conf\ntiis\iis_redirect.reg change from **C:\\tomcat4** to **C:\\tomcat.40** and then import the reg file.

2.6.5 Filter

In the master server add a server filter.
Filtername: Jakarta
Executable: C:\tomcat4.0\bin\native\isapi_redirect.dll

2.6.6 Filter

All virtual hosts that may use JSP/Servlet must have a virtual dircetory:
jakarta -¿ C:\tomcat4.0\bin\native

And now restart iis (**??**)

2.6.7 Checking

To see if jakarta works open a virtual host:
http://virtualhost/sitesticky
If you see binary output, all went ok.

2.6.8 Sitesticky

In the file C:\tomcat4.0\conf\server.xml add (behind the entry named **Tomcat Manager Context**:

```
<Context path="/sitesticky" docBase="D:\pool\addons\sitesticky" crossContext="false"
```

And now restart tomcat and IIS.

2.7 MySQL

All our online data is stored in a MySQL database.

2.7.1 Installation

Download http://www.mysql.com/Downloads/MySQL-3.23/mysql-3.23.52-win.zip and install to C:\mysql

Include C:\mysql\bin in the PATH variable

Copy my-medium.cnf to C:\WINNT and rename on the command line to my.ini:

```
c:{\textbackslash}winnt> ren my-medium.cnf my.ini
```

Changes in this file:

```
datadir=d:/pool/mysql
```

Copy c:\mysql\data to d:\pool\mysql !!!

Informations to Win-NT/2000 and MySQL: http://www.mysql.com/doc/en/NT_start.html

2.7.2 Start

You need to add mysql as a system service:

```
C:{\textbackslash}mysql{\textbackslash}bin> mysqld-nt --install
```

and then

```
> net start mysql
```

to start it

2.7.3 Backup

Normally all data is backed up via samba (**??**) and our company wide backup system but sometimes it's usefull to do manual backups. Backing up a mysql server is quite easy, even if there are two ways of doing it. The first, and safest way is the 'mysqldump' tool:

```
# mysqldump -uroot -p -a > backup.sql
```

Now all data out of the database is in 'backup.sql'. The other way is to copy all database files (binary).

2.7.4 Restore

If you want to restore the database you do the following. At first drop the databases 'test' and 'mysql':

```
# mysql -uroot -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 250 to server version: 3.23.53-log

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> drop database test;
Query OK, 0 rows affected (0.00 sec)
mysql> drop database mysql;
Query OK, 0 rows affected (0.00 sec)
```

Now there are no databases left and we can import the old one.
But DONT restart the mysql daemon until you have imported all data!

Now we can import:

```
mysql -uroot -p < backup.sql
```

If all went ok, and **NO** error occured, we can reinitialze the database:

```
mysql -uroot -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 250 to server version: 3.23.53-log

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> flush privileges;
```

Noteice: If you had no password before importing the database, now you will have the old one from your backup.

2.8   Server Side Includes

We use SSI to include CGI scripts into html.

2.8.1   Configuration

Select virtual host.
Properties-¿HomeDirectory-¿Configuration-¿Add
Executable = C:\winnt\system32\inetsrv\ssinc.dll Extenstion = .html

And give the execute permission to 'Scripts and Executables' in HomeDirectory

2.9 Registry

Our online registration is written in php.

2.9.1 Installation

Add a virtual directory for every virtual host that need the registration:
register -¿ C:\addons\registry

2.10   FAQ

Our online support / FAQ is written in perl.

2.10.1   Installation

Add a virtual directory for every virtual host that need the faq:
support -¿ C:\addons\support

2.10.2   Configuration

For each virtual directory:

VirtualDirectory-¿Configuration-¿Add

Executeable: C:\Perl\bin\perl.exe %s %s

Extension: .x

DirectoryIndex: home.x

Execute scripts and executables

2.11 Newsletter

Our newsletter software is written in php.

2.11.1 Installation

Add a virtual directory for every virtual host that need the newsletter:
newsletter -¿ C:\addons\newsletter

2.11.2 Changes

In the dircetory C:\addons\newsletter edit config.dat to fit your setup and in index.php add at the top:

```
function virtual($path) {
~~~~include($_SERVER[DOCUMENT_ROOT].$path);
}
```