

PRINTSHOP MAIL SUITE



PrintShop Mail Web Installation Guide



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1 Introduction

The instructions in this document describe how to install, set up, and initialize PrintShop Mail Web. After you have finished installing the software components and configured them properly, you are ready to use your PrintShop Mail Web system. Refer to the PrintShop Mail Web documentation for information about using the various software components.

Before you begin installing PrintShop Mail Web and its associated files, make sure that the computers on which you plan to install the software meet the minimum hardware and software requirements, and that you have sufficient hard disk space to install the PrintShop Web software.

1.1 Steps to install

As a general rule, we recommend to install the PrintShop Mail Web and its accompanying modules on a clean machine using the supplied installer. A clean machine is any computer without preinstalled versions of PHP, MySQL, Apache webserver or Microsoft IIS (or at least turned off).

The following steps are required to install the software:

1. Install the software components using the PrintShop Mail Suite installer (setup.exe)
2. Initialize the PrintShop Mail Web website and database
3. Optionally configure the PrintShop Mail Server service and set up printers

1.1.1 Upgrading PrintShop Mail Web

When upgrading PrintShop Mail Web we strongly advise to read the [Important update notes \(Page 27\)](#) section and create backups of your current installation.

Note! Upgrading to PSM Web 7 cannot be undone, the PSM Web 7 database is not backwards compatible with PSW 2.x.



2 Installing the software

Following the instructions in this chapter will enable you to successfully install PrintShop Mail Web and its components. After the installation the you will to setup the PSM Web database and web site. This section covers the following subjects:

- [System requirements \(Page 4\)](#)
- [Running the installer \(Page 6\)](#)
- [Configuring the database and web site](#)

2.1 System requirements

PrintShop Mail Web is a server software and is delivered as an executable installer with predefined configuration settings. We strongly recommend to install the software on a clean installed Windows computer.

2.1.1 Prerequisites

Please ensure that the following requirements have been met before you run the PrintShop Mail Suite installer:

- Login user must have administrator privileges
- Be sure to have an internet connection during the installation!
- PrintShop Mail Web requires the following system components to be installed on your computer prior to installing the product:
 - Microsoft .Net Framework
 - Version 2.0 SP1 (on Windows 2000, XP and 2003 Server)
 - Version 3.5 SP1 (on Windows Vista and 2008 Server)
 - MSXML 4.0 SP2 Parser and SDK
 - VCRedist (Visual C++ 2008 vanilla)
 - Access Database Engine

The PrintShop Mail Suite setup will automatically check these requirements, missing third party software packages will be downloaded from the internet and installed (but of course, not without your permission). The mentioned components can also be downloaded and installed manually. Installers for these packages can be downloaded from the [Microsoft](#) web site.

The software components are installed in the *Program Files* folder of the system drive. Normally this is drive C.

2.1.2 Minimum Hardware Requirements

- Pentium 4, 3 GHz 32-bit (x86)
- 2024 MB of system memory
- 80 GB hard drive

2.1.3 Supported Operating Systems

- Microsoft Windows 2000 (32-bit)
- Microsoft Windows XP Professional (32-bit and 64 bit)
- Microsoft Windows Vista (32-bit and 64 bit)
- Microsoft Windows 2003 Server (32-bit and 64 bit)
- Microsoft Windows 2008 Server (32-bit and 64 bit)

2.1.4 Suggested requirements

For production servers, it's recommended to invest in specific server hardware, such as large RAID hard disks, UPS (uninterrupted power supply) and enough RAM memory.

- Intel or AMD dual-core processor
- 4048 MB of system memory
- 300 GB hard drive

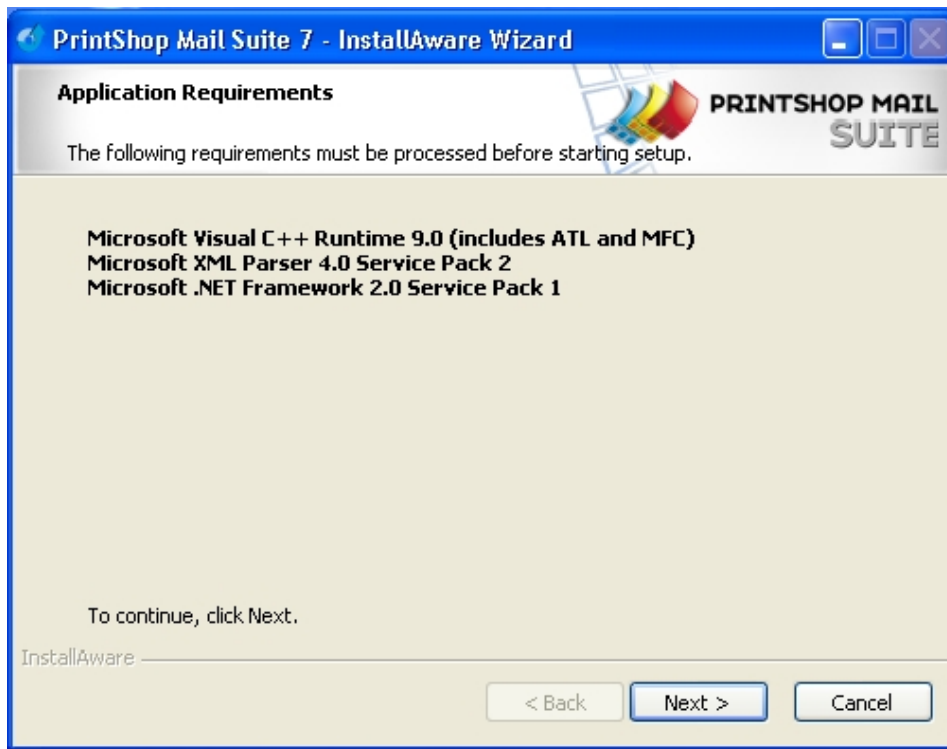
2.1.5 Notes

- Make sure that port 80 and/or port 443 are available for the Apache web server that comes with PrintShop Mail Web.
- USB slot (not required for testing). Your server must have a USB port to which the hardware key ('dongle') can be attached.
- Your network should be an Ethernet (TCP/IP) network, which is by far the most commonly used network today.
- You should have a high speed Internet connection, and a fixed outgoing IP address, which implies that you can run a web server.
- The PrintShop Mail Web server should be directly connected to the RIP or Printer. This means that the PrintShop Mail Web server should be located on your local network (same subnet), on your premises, and preferably not at your ISP's (Internet Service Provider, the company that provides your Internet connection).
- Your router should be configured to allow incoming HTTP connections over port 80. Your network administrator or your ISP should know how to enable this.
- The PrintShop Mail Web server has a built-in email server. This email server will send email notifications to you and your customers when the order status changes. You'll need to know your ISP's SMTP server address (usually something like smtp.yourprovider.com)

2.2 Running the installer

1. Navigate to the *PrintShop Mail Suite.exe* file you downloaded from the Internet or locate the file on the PrintShop Mail Suite product CD. Once located double click its icon to launch the installation program. The *Select Setup Language* dialog appears.
2. Select your preferred language and click *OK*.

In case the prerequisites are not met, the following dialog is shown stating the missing items.



The stated components/libraries are missing

3. Click *Next* to download and install the required components. Once the installation of the components is completed the the installer *Welcome* screen displays.
4. Click *Next*. The *License Agreement* page is shown.
5. Read the license agreement. If the terms of the agreement are acceptable, click on *I accept the terms of the license agreement*.

Note: You must accept the terms of the license agreement to continue.

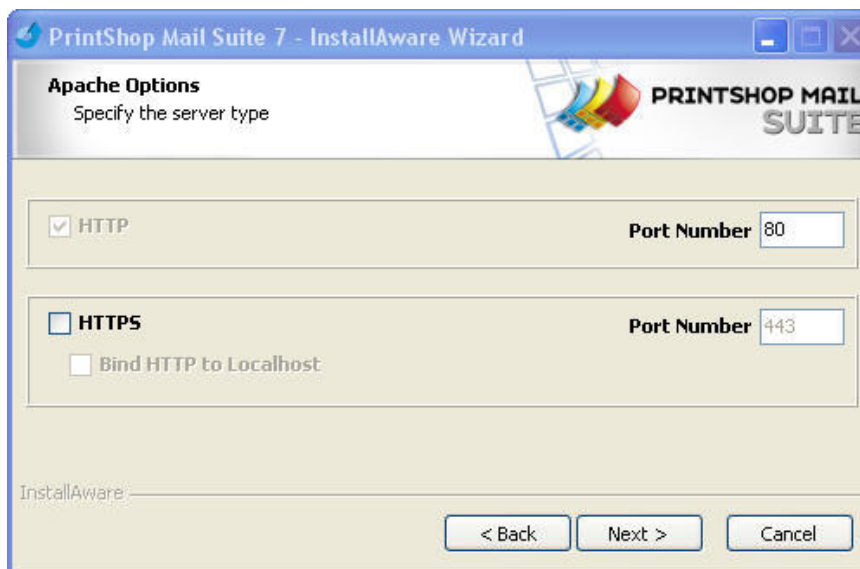
6. Click *Next* to continue the installation process. The *Features* page displays.
7. Select the *PrintShop Mail Web* option to install the web server, database server and PrintShop Mail Server components required for PrintShop Mail Web. The PrintShop Mail application is a required by PrintShop Mail Web and cannot be deselected. Unless you have specific setup requirements, we recommend using the default options for the PrintShop Mail application.



The features dialog

8. Click *Next*. The *Apache Options* screen appears.

PrintShop Mail Web uses the Apache web server, the software can be configured to support regular (HTTP) and secured (HTTPS) types of connections. HTTP is required for the communication between PrintShop Mail Server and PrintShop Mail Web. HTTPS enables the secured transmission of web pages. Please refer to the HTTP over SSL (HTTPS) chapter for more information on this subject. When selecting Bind HTTP to localhost, PrintShop Mail Web only accepts HTTP connections from the local machine, from all other systems PrintShop Mail Web accepts only HTTPS connections.



The Apache Options dialog

9. Select the protocol(s) you wish to use.

Note: If the ports for these protocols are in use a warning appears. This may occur when an existing web server like Apache, Internet Information Server (IIS) or applications like Skype is already running on the same machine. The application or service that uses port 80 or 443 (https) must be closed in order to use PrintShop Mail Web. If you proceed without closing the conflicting application, the installer application will not be able to start the Apache web server. Apache can be started manually using the PrintShop Server Manager application.

10. Click *Next*. The *PrintShop Server Services* screen appears.

PrintShop Mail Server is a Windows Service that runs in the background. Windows services by default run as a virtual user: *Localsystem*. As the *Local System*-account has some limitations the PrintShop Mail Suite installer assigns the currently logged on account to the PrintShop Mail Server service. For more information on this subject please refer to the PrintShop Mail Server service chapter.

Note: In order to start a Windows Service your account must have a password (not empty).

11. Type the password of the displayed user.
12. Click *Next*. The *Destination Folder* screen displays the drive and folder where PrintShop Mail Web will be installed. To install the software elsewhere, click *Change...* and navigate to the desired folder.



Select the destination folder

13. Click *Next*. The *Program Folder* page is shown.
14. Enter a name for the shortcuts folder in the Start menu.
15. Click *Next*. The *Ready to install* screen appears.
16. Click *Next* to install the program files.
When the installation has been successful, the following dialog appears:



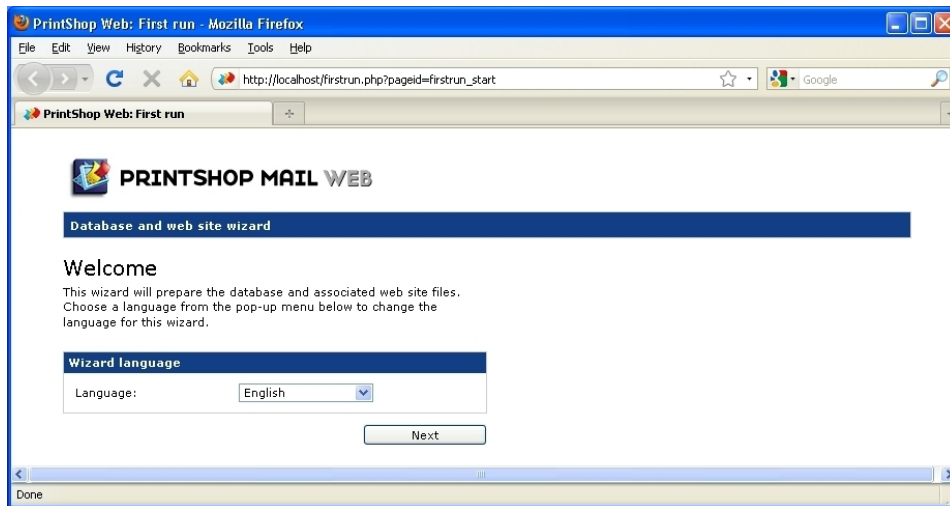
Setup completed dialog

17. Click *Finish* to complete the installation of PrintShop Mail Web. Further configuration is still needed and is explained in the following sections.
 - Select the *Check for Updates* option to launch the Objectif Lune Update Manager service. It contains a list of updates (if available) for the PSM Suite components that are installed on your system. Click the *Install* icon to download and install the new versions.

2.3 Configuring the database and web site

After the installation you will need to launch your web browser and navigate to the PrintShop Mail Web web site. You can reach the web site using localhost in your web browser's address bar. The first time you visit the web site the First Run page will be shown. This web page will initialize the PrintShop Mail Web web site and database and guides you through this process step by step.

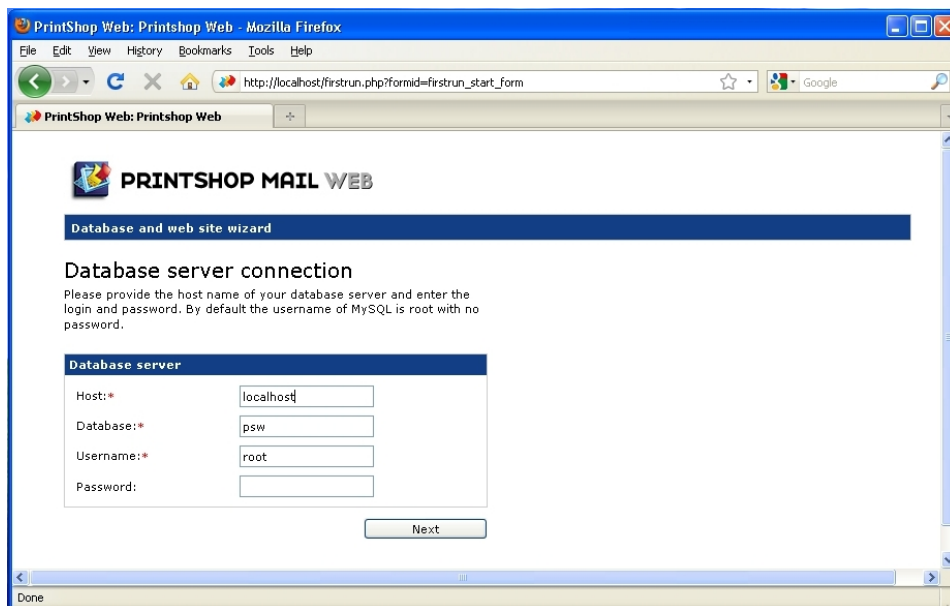
1. Open your web browser and enter *localhost* in the address bar. The First Run wizard appears.



Choose your language

The wizard will first allow you to select a language to use.

2. Select a language and click *Next* to proceed to the *Database server connection* page.



Specify your MySQL host, user name and password

Provide the host name of your database server and enter the login and password. If both the web server and database server (typical installation) are running on the same machine, you can use *localhost* as the host and use *root* as the user name.

During the installation of the MySQL database software a user is created with the name *root*, with no password. To modify the password you can use an application like MySQL Administrator afterwards. The MySQL Administrator is part of the MySQL GUI Tools suite which you can download for free from the MySQL website: <http://dev.mysql.com/downloads/gui-tools/>

Note: The *incDBLink.php* file (located in the *Functions* folder of the *PSW Website* folder) should be changed accordingly.

3. Leave all the server connections options set to the default value unless you need to make a specific change. Click *Next* to proceed.

When PrintShop Web find a database with the name *psw*, the *Database Exists* page may appear: This page allows you to use the existing database or to overwrite it. If an older version of the system is found you will be able to update the database keeping the existing orders, templates, etc. Once the installation procedure is finished you should check that the companies, templates and other information in the system has default values set for items like the pricing settings.

Note: When upgrading PrintShop Web we strongly advise to read the [Important update notes \(Page 27\)](#) chapter and create backups of your current PrintShop Web installation. You can use the MySQL Administrator tool described before to create a backup of your *psw* database.

4. Once the database is created several system defaults need to be set. These settings can be modified and expanded in PrintShop Web once the first run wizard is completed.

PrintShop Web: Printshop Web - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost/firstrun.php?formid=firstrun_mysql_form

PrintShop Web: Printshop Web

PRINTSHOP MAIL WEB

Database and web site wizard

System Defaults

Customize the System Default parameters below to complete the initial configuration. These values can be changed afterwards in the Settings section of PrintShop Web.

System Defaults

General

Company name:*
Enter a name for the initial company

Pricing and Ordering

Currency:
Taxation system:*
Enter a name for the default taxation system

Tax Rate:* %
Enter the default tax rate

Setup Cost:*
Enter the price of your standard job setup cost

Rush Order Surcharge:*
Enter your standard surcharge for rush orders

Weight Unit:

Production

Standard Production Time:* Day(s)
Enter the default lead time of print jobs

Rush Order Production Time: Day(s)
Enter the default lead time for rush orders

Next

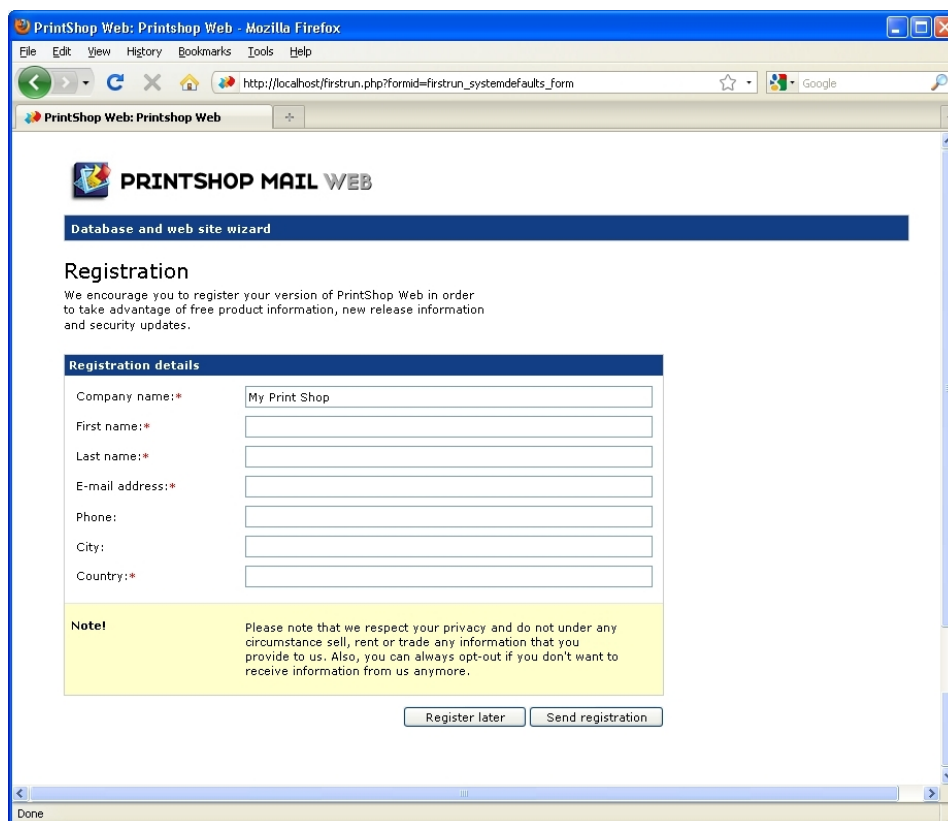
Specify the name for the initial company and set system defaults

The system default settings page requires input for the following system defaults:

- **Company Name:** The name of the initial company. This field is not visible when upgrading a previous version of PSW.
- **Currency:** The selected currency will be presented in Checkout and Order Manager sections of the system.
- **Taxation System:** The standard Taxation system.
- **Tax Rate:** The percentage of the standard taxation system.
- **Setup Cost:** The surcharge for setting up your production environment and workstations.
- **Rush Order Surcharge:** The surcharge for urgency printing (if applicable).
- **Weight Unit:** The weight unit used to define the total weight of the documents/jobs in the checkout. PSW supports *kg* and *lb*.
- **Standard Production Time:** The number of days to produce documents.
- **Rush Order Production Time:** The number of production days for rush orders.

Enter a name for the initial company and verify the remaining parameters. Refer to the Administrative Guide for more information about these parameters. Click *Next* to proceed to the *Registration* page.

5. We encourage you to register your PrintShop Web product in order to have the benefit of free product information, new release information, and security updates.



The screenshot shows a web browser window titled "PrintShop Web: Printshop Web - Mozilla Firefox". The address bar shows the URL "http://localhost/firstrun.php?formid=firstrun_systemdefaults_form". The page content includes the "PRINTSHOP MAIL WEB" logo, a "Database and web site wizard" header, and a "Registration" section. The registration details form contains fields for Company name (filled with "My Print Shop"), First name, Last name, E-mail address, Phone, City, and Country. A "Note" box states: "Please note that we respect your privacy and do not under any circumstance sell, rent or trade any information that you provide to us. Also, you can always opt-out if you don't want to receive information from us anymore." At the bottom of the form are two buttons: "Register later" and "Send registration".

Register your version of Printshop Web in order to take advantage of free product information

Enter your details and click *Send registration* or *Register later* to continue.

6. The website and database initialization process is now completed and you are ready to use the system. Click *Go* to enter the login page of PrintShop Mail Web

For both the login name and password use *administrator* to enter the system and you are ready to setup the system for your clients.



3 PrintShop Server service

This section describes the configuration of a distinct local user-account for the PrintShop Server service.

Note: This description focuses on procedures on Windows XP; on other platforms this procedure may be slightly different.

PrintShop Server (PSS) is a Windows Service that runs in the background. Windows Services mostly run under a different Windows User Account than the one any end-user has used to log on to their system called Local System. Because the Local System-account has some limitations the PrintShop Server service will run by default under the administrator end-user account that was logged on to the system during the installation of PrintShop Web.

In order to properly serve PrintShop Web, it is vital that the account that PrintShop Server runs under has enough security privileges on the local machine, and perhaps on the network, to access (network-)printers or other resources it needs.

First and foremost, as the name Local System implies, the account is only valid for the local machine. Network printers will therefore not be available for use in PrintShop Server. The second limitation is printer management. PrintShop server will only have access to printers installed for the user account under which PrintShop Server runs. This means that if Administrator has logged on and manages his printers, this might not propagate to the Local System account's printers, which PrintShop Server would use!

To avoid these issues with Printer Management, we strongly advise to make sure that the PrintShop Server service runs under a user-account with administrative privileges. It is necessary to install and configure your printer(s) explicitly for this user-account, - for the PrintShop Server service.

What follows is a description of how to create a new (local) user-account with sufficient administrative privileges on the system where the PrintShop Server service is running.

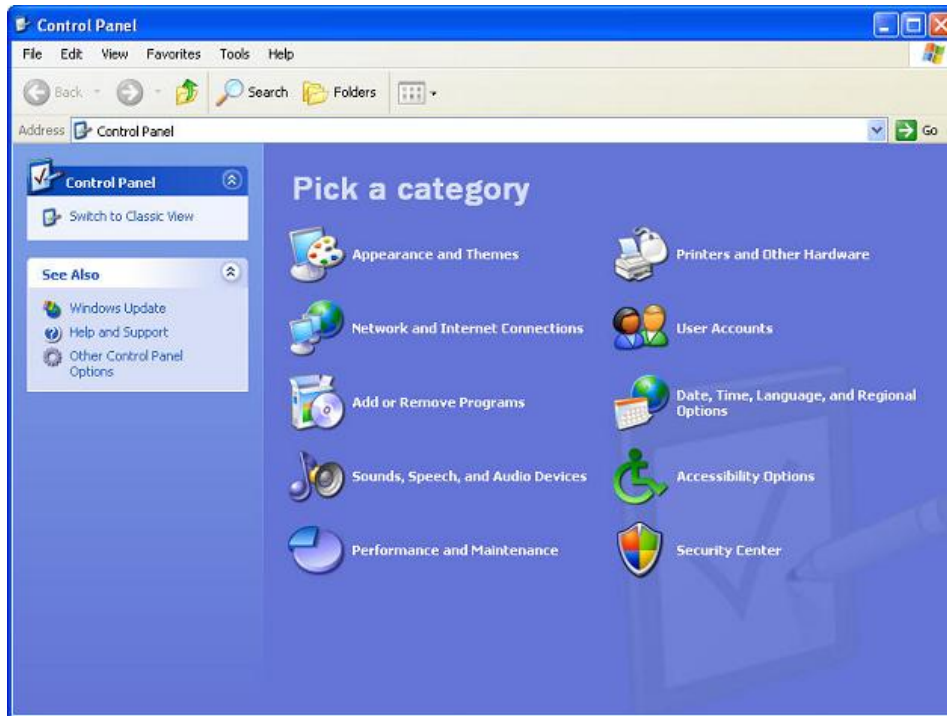
Note: In case your network-configuration requires this user-account to be a Domain User to be able to access network resources, like network-printers, please contact your Domain Administrator to set up a proper configuration. If you need further assistance, please feel free to contact technical support (support@printshopweb.com) or your local distributor.

This section covers the following subjects:

- [Creating a User Account for the PSS service](#)
- [Set the security privileges \(local account\)](#)
- [Managing printers for PrintShop Server](#)
- [Setting the PrintShop Server Service account](#)

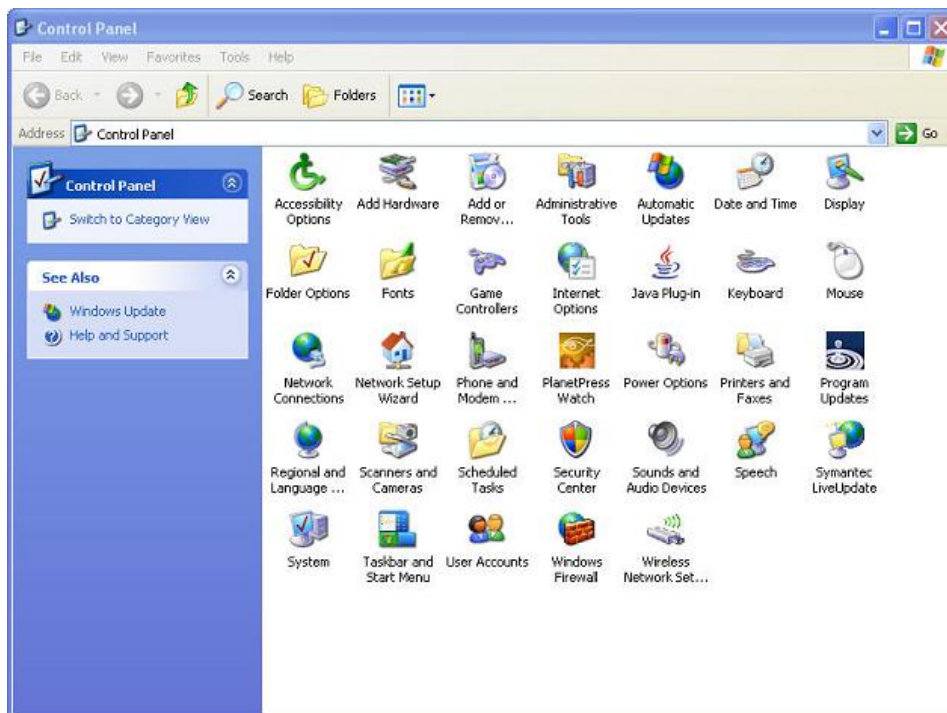
3.1 Creating a User Account for the PSS service

1. Click *Control Panel* in the *Start* menu in windows. If the Control Panel looks like this, click on *Switch to Classic View*:



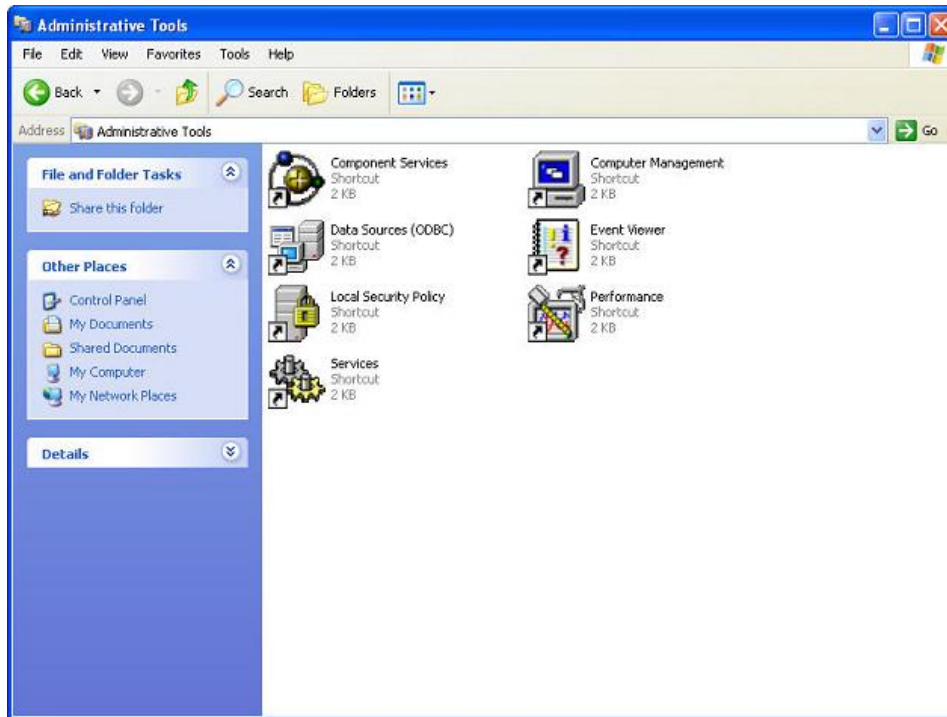
The Control Panel window

It should look like this now:



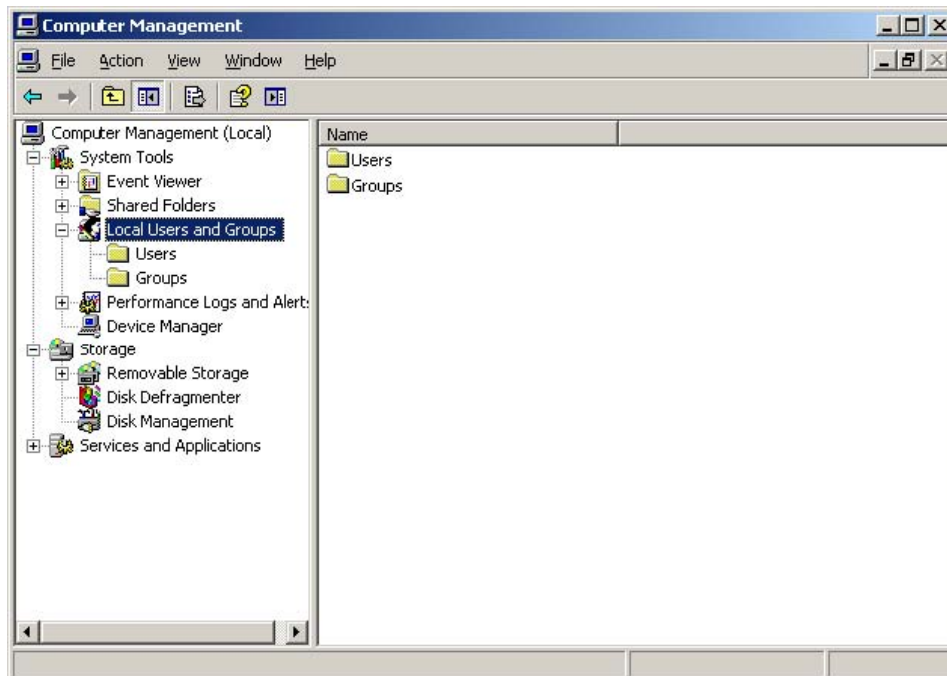
The Control Panel window

2. Open *Administrative Tools*:



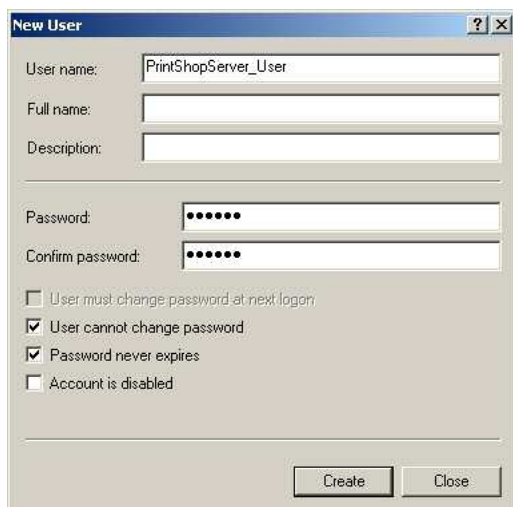
The Administrative Tools window

3. Open the *Computer Management* window and expand *Local Users and Groups*:



The Computer Management window

4. Right-click *Users* and select *New User...* the *New User* window appears
5. Enter a *User name*, a *Password* and select the check boxes as shown below:

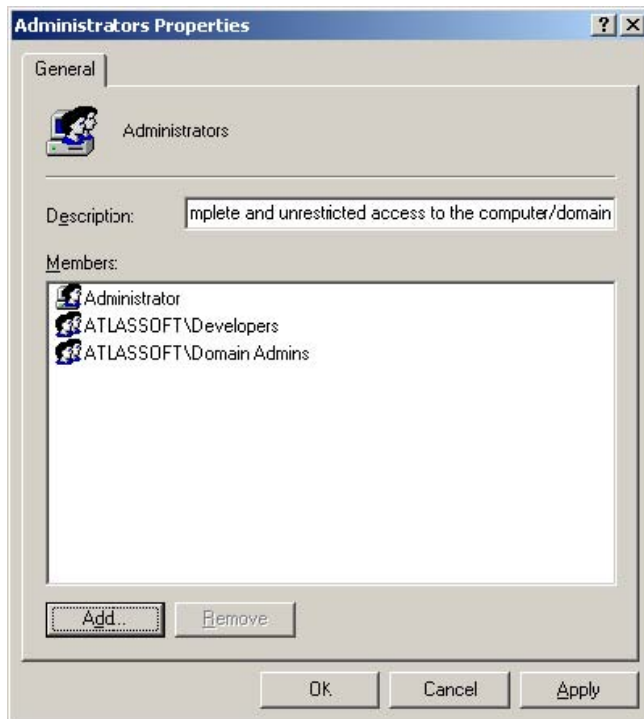


The New User window

6. Click *Create* and after that click *Close*. The account is created; now the security privilege need to be set.

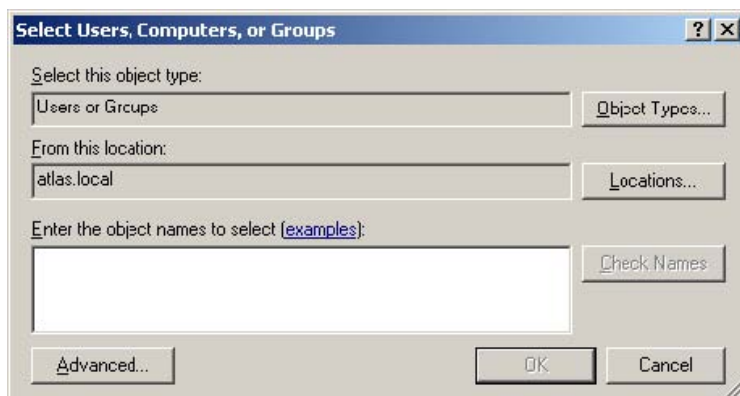
3.2 Set the security privileges (local account)

1. Select the *Groups* in the Computer Management pane on the left side of the window.
2. Right-click *Administrators* in the right pane and select *Properties* in the menu that appears. The following window will be shown:



The Administrators Properties window

3. Click *Add...* The *Select Users, Computers, or Groups* window appears. In this window the *From this location* option is set to a domain, in this example *atlas.local*.



The Select Users, Computers, or Groups window

In case you would want to select another domain, or use a local account, click *Locations...*, which will lead to the following window:

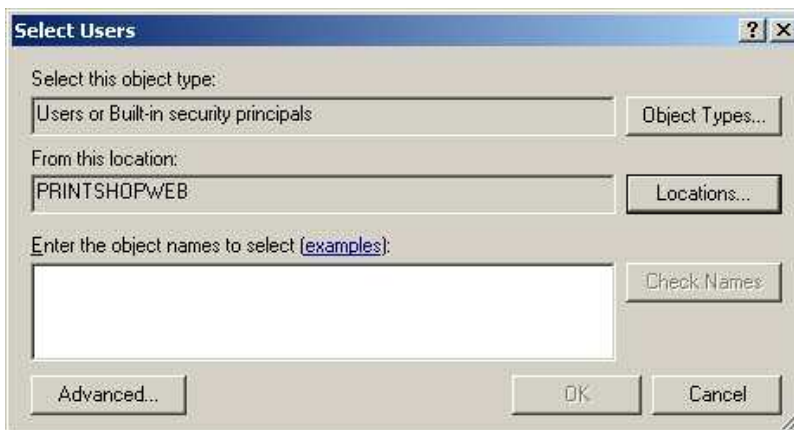
PrintShop Server service - Set the security privileges (local account)



Select the location you want to search for users.

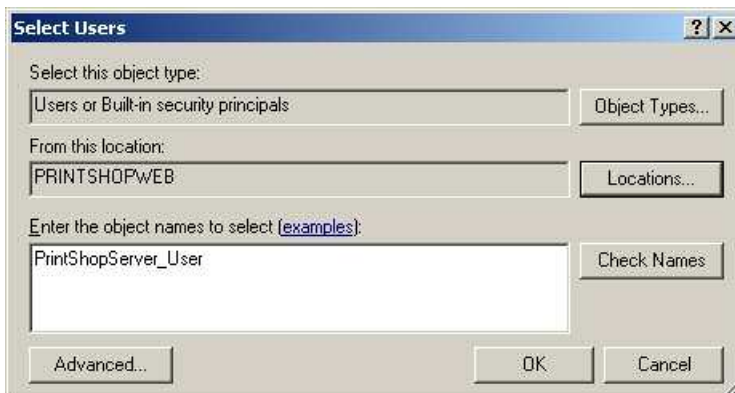
In this example the local computer (*PRINTSHOPWEB*) must be selected, because we want to set the security settings for the just created local account.

4. Click *OK* to proceed.



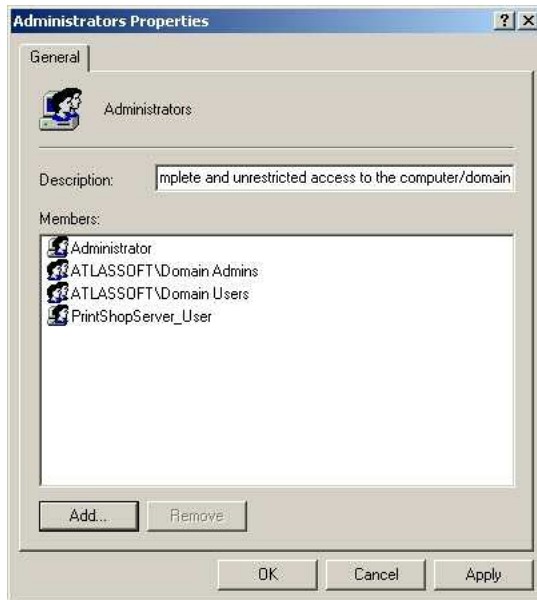
The Select Users window

5. Type the name of the local account to set the security settings.
6. Click *Check Names* to ensure that the account-name was entered correctly:



The Select Users window

7. Click *OK* twice. The *Administrators Properties* window appears showing the new user.



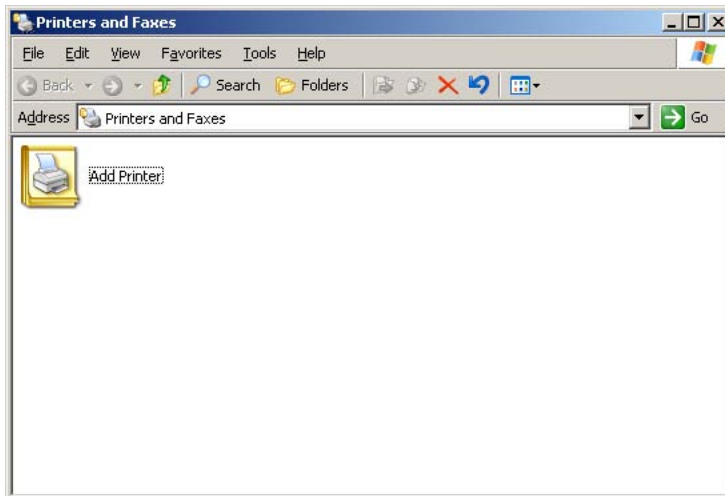
The Administrator Properties window

3.3 Managing printers for PrintShop Server

Installed printers differ per user in Windows, so we need to *Log Off* from Windows via the *Start* menu and *Log On* with the account that will be used for PrintShop Server.

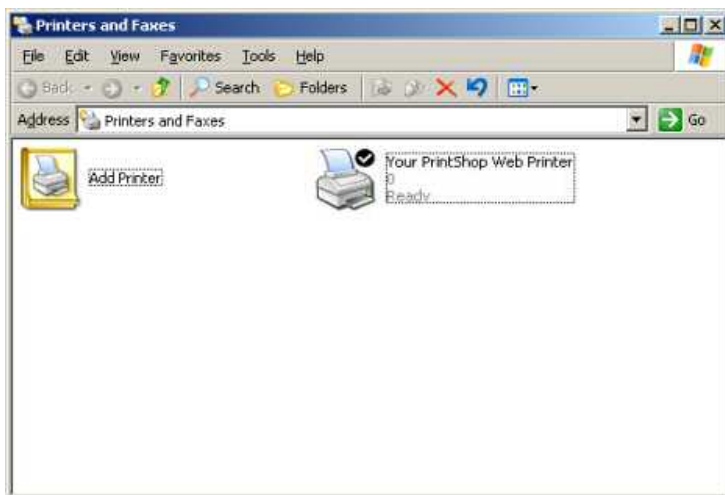
Note: PrintShop Server needs at least one PostScript printer to operate.

1. Open the *Printers and Faxes settings* from the *Windows Control Panel* (use the Windows *Start* menu)
2. Click the *Add Printer* icon, *Add Printer* wizard appears



The Printers and Faxes window

3. Add any PostScript printer you like through the Add Printer wizard.
4. Once created the printer is added to the *Printers and Faxes* overview.



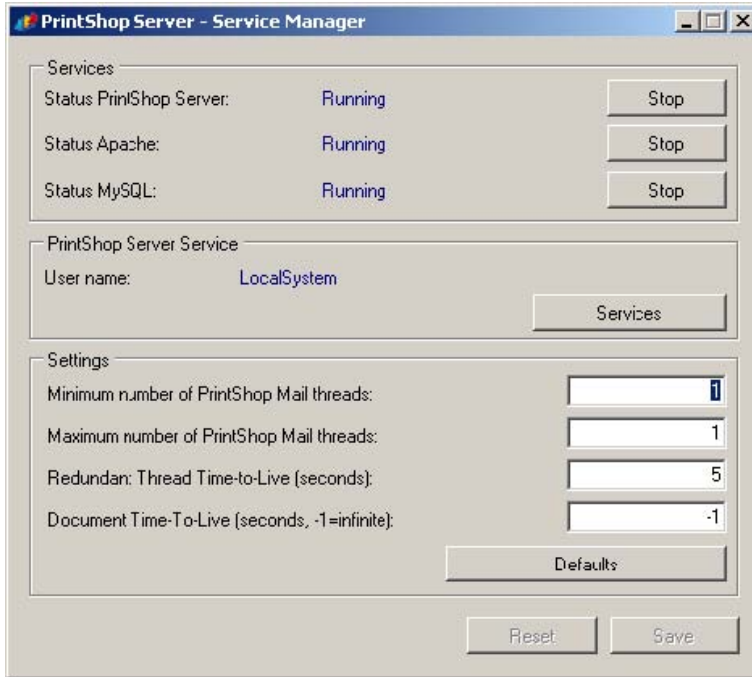
The new printer is added to the Printers and Faxes window

Note: The PrintShop Server service must be restarted after changing printer settings (or when printers have been added) to be able to use these new settings (or printers).

3.4 Setting the PrintShop Server Service account

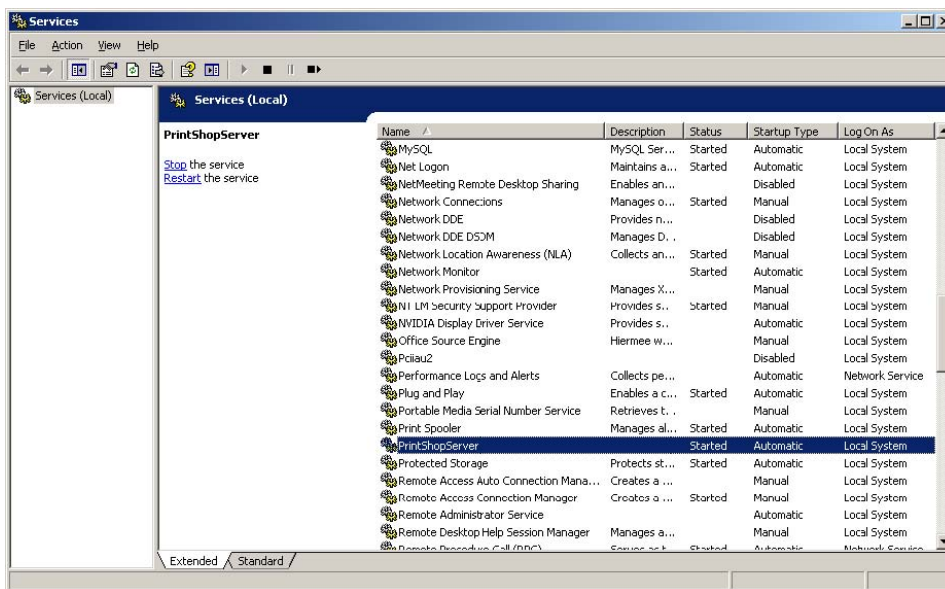
Now that we have set-up an account for PrintShop Server, PrintShop Server must be configured to use it.

1. Start *PrintShop Server Manager* from the *Start* menu.



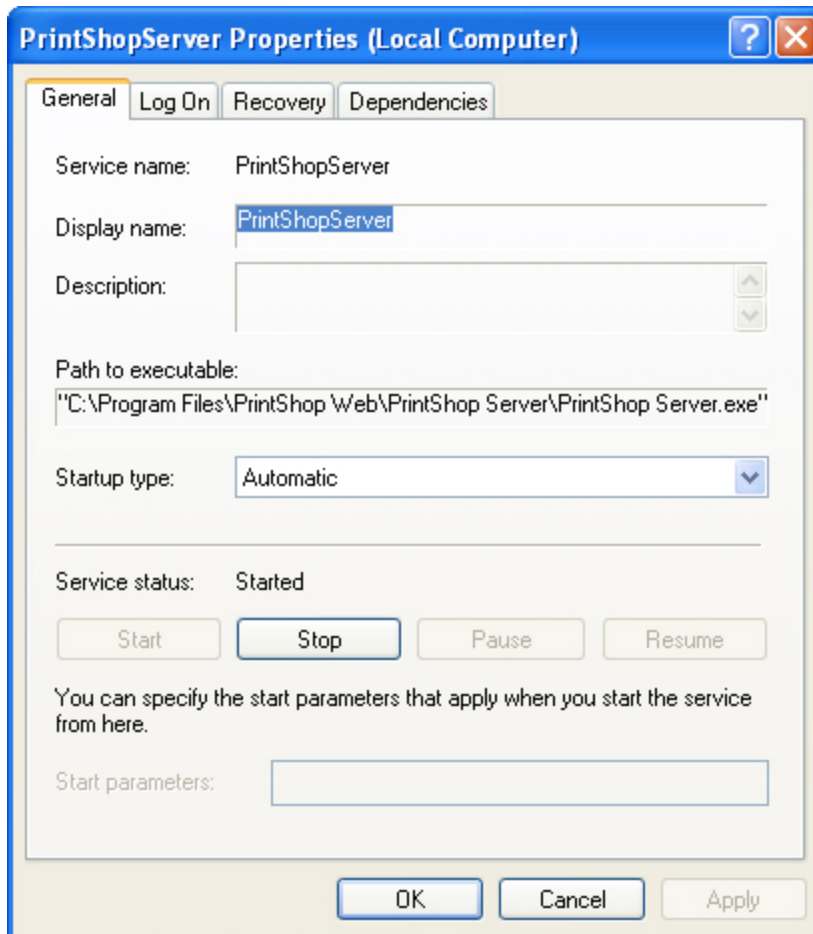
The PrintShop Server Manager main window

2. Click *Services*, which will lead to the *Service* window and locate *PrintShop Server* in the list:



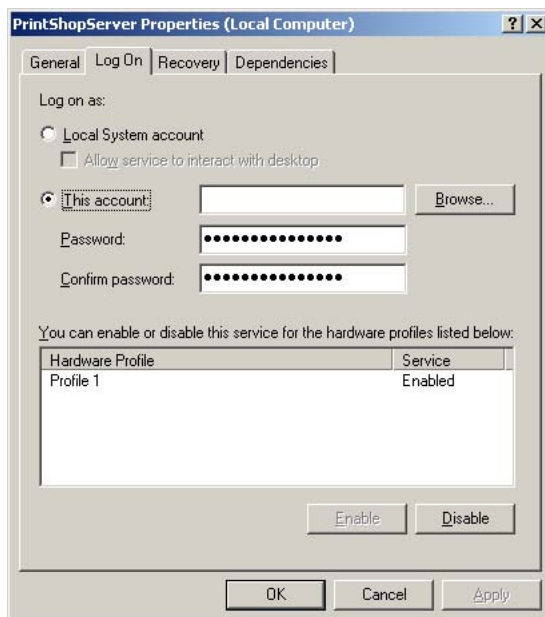
Locate PrintShop Server

3. Right-click *PrintShop Server* and select *Properties* in the menu that appears, which will lead to the following window:



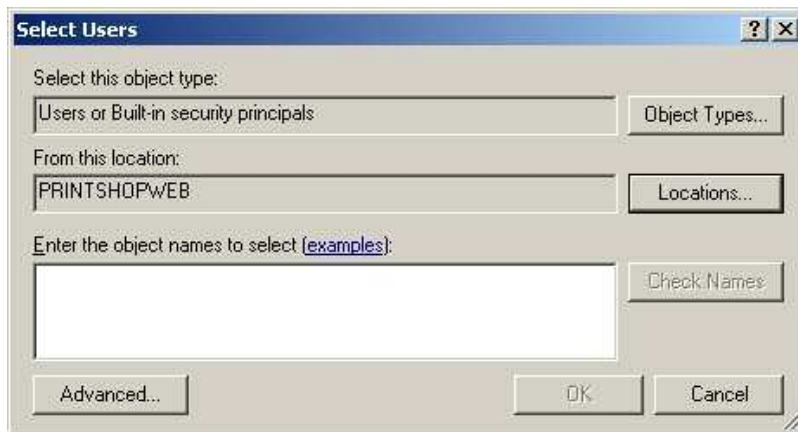
PrintShop Server service properties

4. Select the *Log On* tab, and select the *This account:-*option



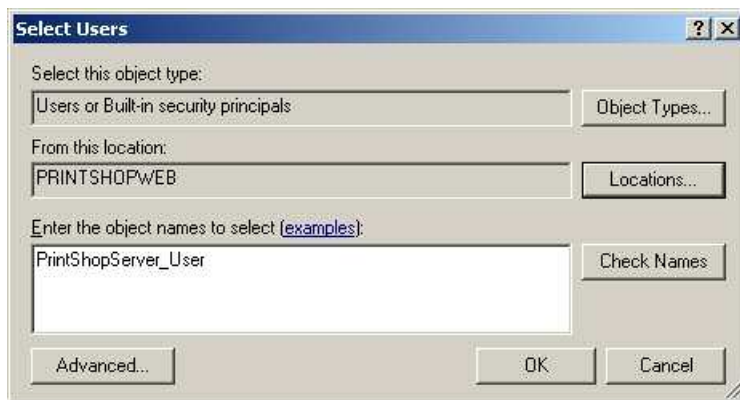
PrintShop Server service properties log on

5. Click *Browse...*. The following window will appear:



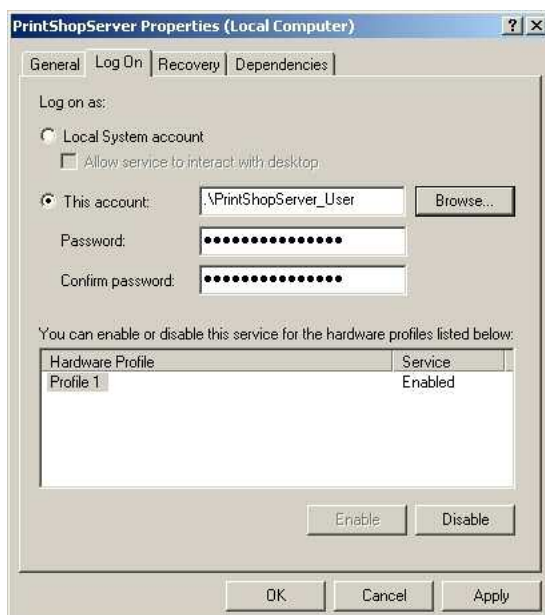
Select a user

6. Type the name of the newly created account:



The Select Users window

7. Click *Check Names* to be sure we entered it correctly, clicking *OK* after will lead to the following window:



PrintShop Server service - Setting the PrintShop Server Service account

PrintShop Server service properties log on as PrintShopServer_User

8. The *Password* is an old and invalid value, so the *Password field must be set to the password for the new account*:



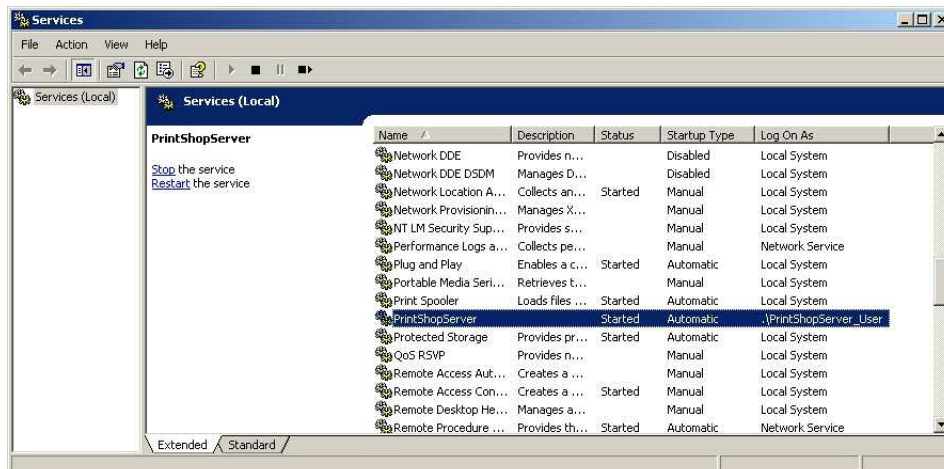
The Locate PrintShop Server window

9. Click *OK* to proceed



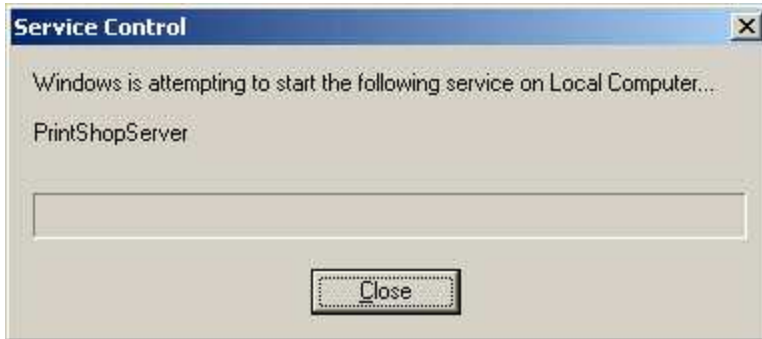
Log on as service rights granted

10. Clicking *OK* will return you to the following window:



Log on as *PrintShopServer_User*

11. Right-click *PrintShop Server* and select *Restart* in the menu that appears.



Restart service

Note: Wait for the restart to finish: (do not click *Close*, this dialog will disappear automatically).



4 Important update notes

Before updating an existing PSW 2.x installation please read the following:

- [Creating a backup \(Page 28\)](#)
- [Orders and Documents \(Page 31\)](#)
- [Skin changes \(Page 32\)](#)

Note! Upgrading to PSM Web 7 cannot be undone, the PSM Web 7 database is not backwards compatible with PSW 2.x.

4.1 Create backups

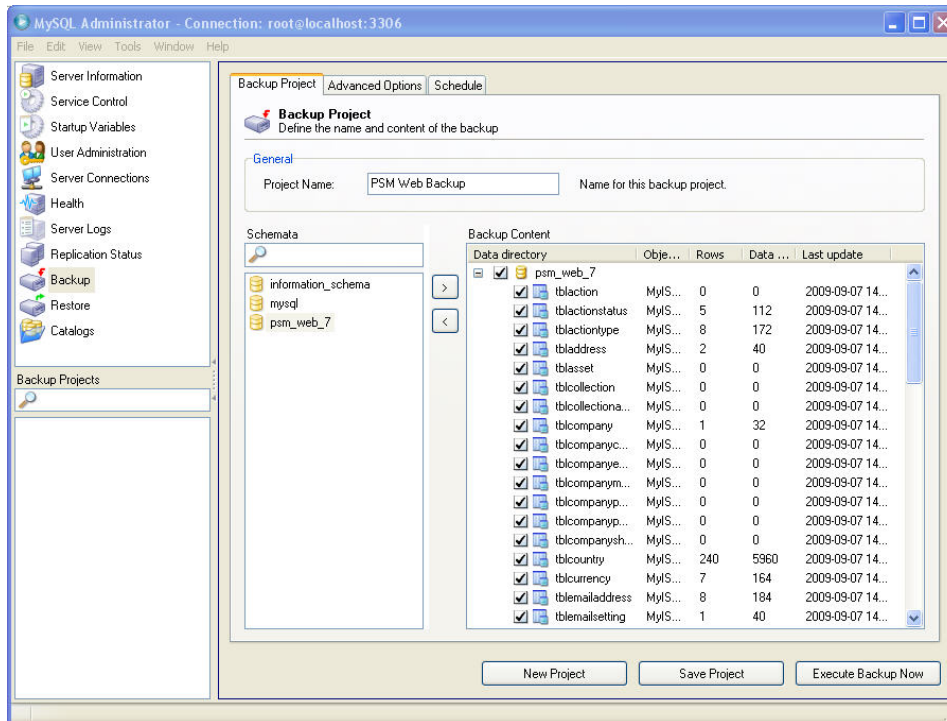
Backup all files and databases prior to the migration. In case of problems during the update installation this will enable the contents of PrintShop Mail Web to be restored.

- [Backup configuration files \(Page 30\)](#)
- [Backup production files \(Page 29\)](#)
- [Backup skin files \(Page 30\)](#)
- [Backup your database \(Page 28\)](#)

4.1.1 Backup your database

To create a backup of the database:

1. Download and install the MySQL GUI tools. These tools can be downloaded for free at: <http://dev.mysql.com/downloads/gui-tools/>
2. Launch the MySQL Administrator application. Existing backup projects are listed in the lower left area of the sidebar.



The MySQL Administrator window.

3. If you are not working from a previously saved backup project, click the New Project button to create a new backup project. You cannot begin configuring a backup operation without either loading an existing project or creating a new project.
4. Once you have configured your backup project, you can click the Save Project button to save your project for future use. To start your backup, click the Execute Backup Now button. You will be prompted for a path and filename for the backup file, after which the backup operation will begin.

MySQL Administrator can be used to restore the database backup files created using MySQL Administrator. The backup files created by MySQL Administrator are similar but not identical to those created by **mysqldump**. A consequence of the differences is that MySQL Administrator cannot read dump files created by **mysqldump**.

4.1.2 Backup production files

PrintShop Mail Web stores the production files in a central location located in the web site folder of the PSM Web system. This folder includes: template documents, job created by the visitors, image collections, job option files etc. Most of these items are referred to by the PSM Web database. It is very important to create a backup of the database that goes with the current state of your *files* folder.

To create a backup of the *files* folder:

1. Stop the PrintShop Mail Server service. This can be done via the Windows *Services* dialog (Administrative tools) or by launching the PrintShop Server - Service Manager application. The latter can be found in the following locations:

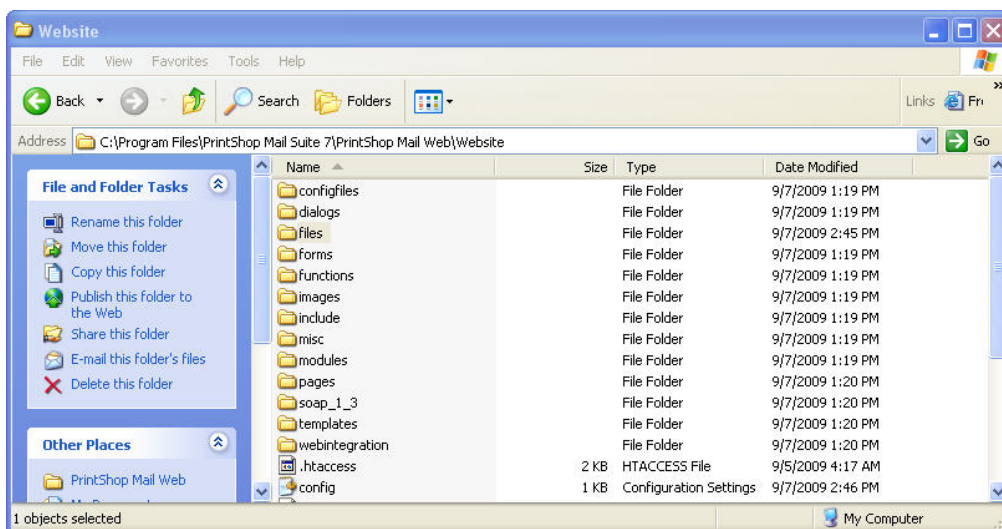
- For PSW 2.x this is:
C:\Program Files\PrintShop Web\PrintShop Server
- For PSM Web 7 this is:
C:\Program Files\PrintShop Mail Suite 7\PrintShop Mail Web\PrintShop Server

Note: If you do not stop the PSM Server service files might be in use (busy) due to the template cache of PrintShop Server.

2. Locate the web site folder of your PrintShop Mail Web installation.

- For PSWeb 2.x this is:
C:\Program Files\PrintShop Web\Website
- For PSM Web 7 this is:
C:\Program Files\PrintShop Mail Suite 7\PrintShop Mail Web\Website

3. Copy the *files* folder to an external hard drive or share on your network.



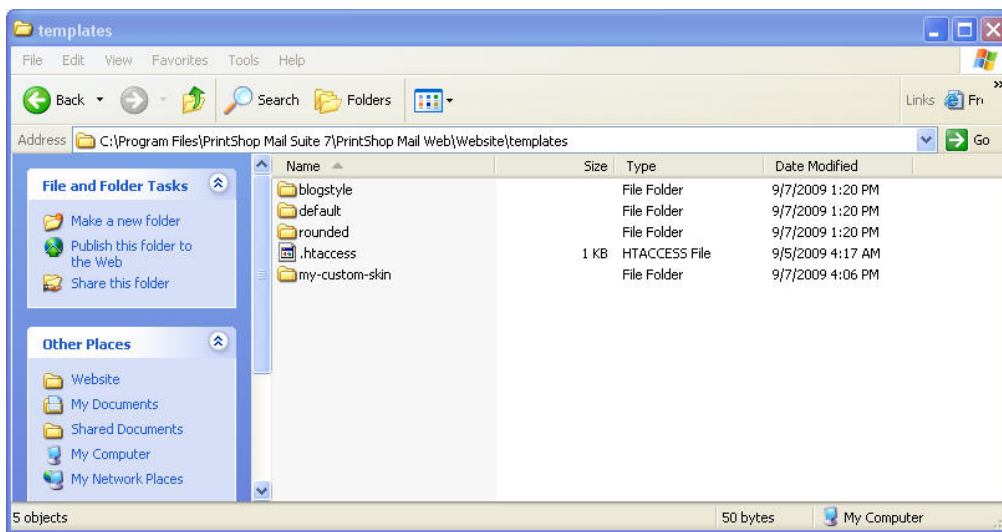
The files folder of a PrintShop Mail Web 7 installation.

4.1.3 Backup skin files

Skin files should be backed up when you created custom skins or altered the default skins supplied with PrintShop Mail Web.

To create a backup of your skins:

1. Locate the web site folder of your PrintShop Mail Web installation.
 - For PSWeb 2.x this is:
C:\Program Files\PrintShop Web\Website
 - For PSM Web 7 this is:
C:\Program Files\PrintShop Mail Suite 7\PrintShop Mail Web\Website
2. Copy the *templates* folder to an external hard drive or share on your network.



The templates folder of a PrintShop Mail Web 7 installation.

Note: Custom skins or skins from older/newer versions of PrintShop Mail Web might not work properly in newer or older versions of PrintShop Mail Web.

4.1.4 Backup configuration files

If you modified the httpd.conf and ssl.conf files (f.e. changed the VirtualHost(s)) these should be backed up too.

To create backups of your configuration files:

1. Locate the *conf* folder of the Apache folder which resides in the PrintShop Mail Web folder.
 - For PSW 2.x this is:
C:\Program Files\PrintShop Web\PrintShop Server\Apache\conf
 - For PSM Web 7 this is:
C:\Program Files\PrintShop Mail Suite 7\PrintShop Mail Web\Apache\conf
2. Copy the httpd.conf and ssl.conf files to an external hard drive or share on your network.

4.2 Orders and Documents

- In PSM Web 3 the relationship between orders and documents (print jobs) is changed. Orders now can contain multiple documents which is visualized using a tree view. To avoid misunderstanding by customers it is advised to change the status of orders in the *Ordered* and *Approved* status folders to *In-plant*. Price related items remain intact although the presentation is different due to changes in the PrintShop Web user interface.
- PrintShop Mail documents (templates and print jobs) in the system are automatically converted to the PrintShop Mail 7 format the first time they are used for previews or print actions. This action is performed only once.

4.3 Skin changes

- As PSM Web 7 includes various user interface enhancements and new interface elements (e.g. modular dialogs) custom skins should be checked and updated to support these new items. To test your existing skin(s) with PSM Web 7:
 - Install PSM Web 7 on a stand-alone machine.
 - Copy your skin(s) to the templates folder of the PSM Web 7 installation.
 - Test and modify your skin
 - Once completed create a backup of the modified skin and copy it to your production server.
- The 'Default' skin of PSM Web 7 uses a gradient image as background image in the menu bar and table headers. Although this looks very nice it prevents the web browser from showing the contrast color set in the *Edit Web Design* page. If the contrast color is preferred the style-element-menu.php of the default skin should be changed. The original code is still there but commented out. Simply remove these comments and comment the lines that render the gradient image.



5 HTTP over SSL (HTTPS)

HTTPS (Hypertext Transfer Protocol over Secure Socket Layer, or HTTP over SSL) is a Web protocol used to encrypt and decrypt user page requests as well as the pages that are returned by the Web server.

SSL is an open, non proprietary protocol that Netscape has proposed as a standard to the World Wide Consortium (W3C). HTTPS is not to be confused with S-HTTP, a security-enhanced version of HTTP developed and proposed as a standard by EIT.

When you visit a web site with a Uniform Resource Locator (URL) that starts with https:// your browser's HTTPS layer will encrypt information send from the client to the server. The acknowledgment you receive from the server will also travel in encrypted form, arrive with an https:// URL, and be decrypted for you by your browser's HTTPS sublayer.

HTTPS and SSL support the use of X.509 digital certificates from the server so that a user can authenticate the sender.

5.1 PrintShop Mail Web and HTTPS

The PrintShop Mail Web installer gives you the option to support both HTTP and HTTPS connections. If you do not install HTTPS during the installation you can enable it afterwards.

5.1.1 SSL certificates

When you enable HTTPS you have to obtain a ssl certificate from a certificate authority like Verisign (<http://www.verisign.com>), this certificate and the private key must be placed in `/apache/certificate`. PSW comes with a sample certificate, which will work on PrintShop Mail Web servers that can be reached through the URL `https://localhost`. For any other URL the supplied certificate will generate security warnings when an user connects to the PrintShop Mail Web server.

Most certificate authorities have detailed information on their web site on how to obtain, create and install certificates. The following steps will help you generating a Certificate Signing Request (CSR) and need to be performed on the PSM Web server.

1. Download and install Openssl. Openssl can be found at the following location: <http://www.slproweb.com/>
2. Navigate to the OpenSSL folder and launch the OpenSSL.exe located in the bin folder
3. Enter the following command to generate a private key:

```
openssl genrsa -out yourdomainname.key 1024
```

The example above generates a *genrsa* encrypted key. These settings may differ between certificate providers.

4. Enter the following to create the CSR:

```
openssl req -new -key yourdomainname.key -out yourdomainname.xsr
```

5. Read the instructions and completed the information on screen (use YOUR details).

```
You are about to be asked to enter information that will be
incorporated into your certificate request.
What you are about to enter is what is called a Distinguished Name
or a DN. There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [AU]:NL
State or Province Name (full name) [Some-State]:Zuid Holland
Locality Name (eg, city) []:Zoetermeer
Organization Name (eg, company) [Internet Widgits Pty Ltd]:Objectif Lune BV
Organizational Unit Name (eg, section) []:R and D
Common Name (eg, YOUR name) []:www.yourdomainname.com
Email Address []:info@yourdomainname.com

Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:
An optional company name []:
```

Enter your host address at "Common Name", if you enter "yourdomainname.com", the certificate is limited to the `https://yourdomainname.com` and cannot be used for `https://www.yourdomainname.com`.

You can leave the "challenge password" and "optional company name" empty. This completes to steps to create a private key and the csr, both files are created inside the folder of OpenSSL.exe. You will need the csr when obtaining a SSL certificate.

Place the key file generated in step 3 in Apache/certificate/psw.key in your PrintShop Mail Web installation folder. The .crt file provided by your certificate authority must be installed in Apache/certificate/psw.crt in your PrintShop Mail Web installation folder.

5.1.2 Server installation

During the installation of PSM Web all components to run HTTPS are installed but will be disabled if you did not choose to select the HTTPS protocol. To enable and configure HTTPS:

1. Open the *httpd.conf* file located in the *conf* folder of the *Apache* folder (inside the PrintShop Web folder).
2. Add the following module rule:

```
LoadModule ssl_module modules/mod_ssl.so
```

3. Open the *ssl* file located in the *conf* folder of the *Apache* folder (inside the PrintShop Web folder).
4. Make sure that the following entries refer to the location of your certificate files:
 - SSLCertificateFile (.crt)
 - SSLCertificateKeyFile (.key)
5. Restart the Apache service using the PrintShop Server Manager.

5.1.3 Client installation

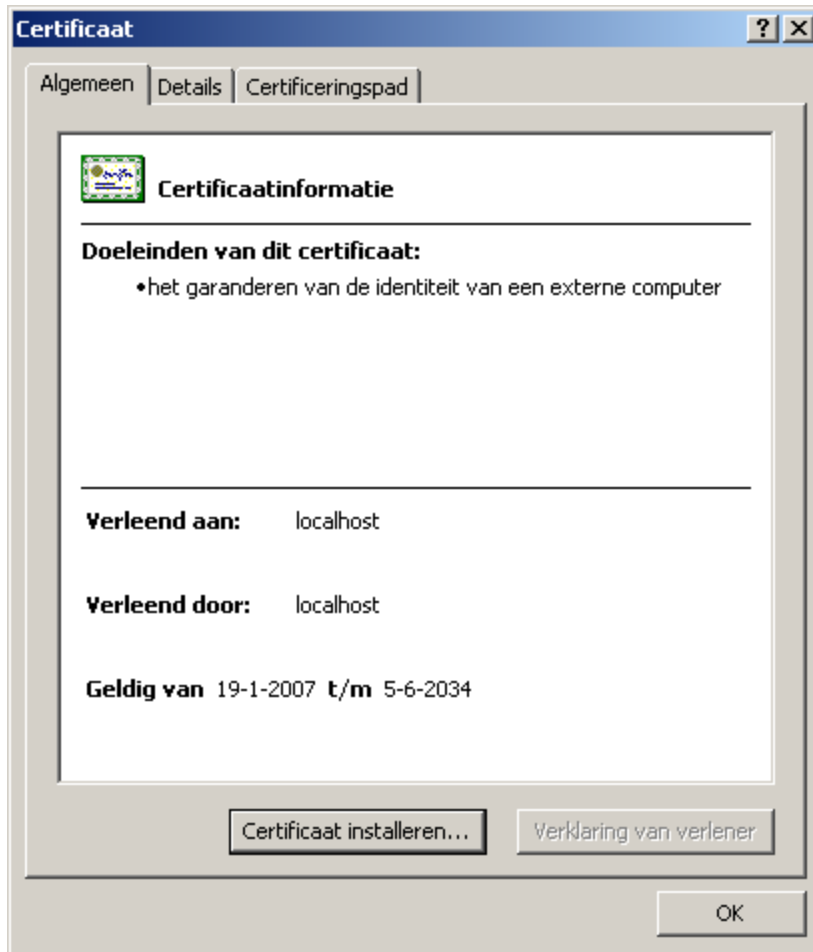
Important: The supplied certificate only works on PrintShop Mail Web servers that can be reached through the URL <http://localhost>. For any other URL the supplied certificate will generate security warnings when an user connects to the PrintShop Mail Web server.

1. Close all opened web browser windows.
2. Open the an Internet Explorer web browser and go to <https://localhost> (notice that this is https, not http!).
3. If you don't see the following dialog and PrintShop Mail Web loads normally, all settings are correct and you may stop reading this section:



This certificate is not accepted yet

4. Click View Certificate to view the certificate. The following dialog appears:



View the certificate

5. Click on *Install Certificate*, progress through the wizard and click Yes.

Test Certificate by Web Browser

1. Open an internet browser and add the following URL to test the non-secure version: `http://localhost`
2. Open an internet browser and add the following URL to test the secure version: `https://localhost`
Important: If you see the following window while visiting the secure version, the certificate isn't properly installed on your system (See Install Certificate). Please do not close the windows and repeat Install Certificate.



This certificate is not accepted yet

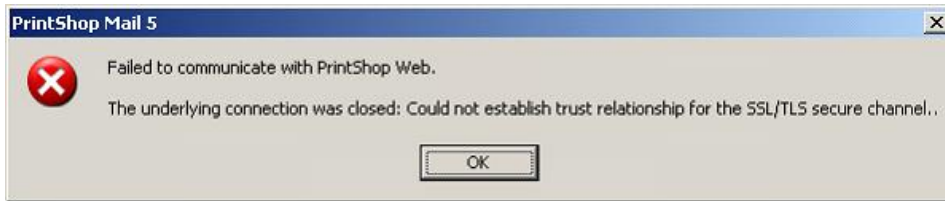
Important: If you see the following window while visiting the secure version, the URL you are using is not `https://localhost` but some other one!



The URL you used doesn't mach the URL in the certificate

Test Certificate in PrintShop Mail

1. Open PrintShop Mail. In the PrintShop Mail Web publishing preferences, please set the URL property to: `https://localhost`
2. Click on *Test Connection...* button. If you the following message, please re-check the URL and re-test by webbrowser if the URL was set correctly.



There is no certificate installed yet for this server