
Web Pages on the PWF: Personal and Group

many leaflets can be found at: <http://www.cam.ac.uk/cs/docs/>



**UNIVERSITY OF
CAMBRIDGE**
Computing Service

Leaflet M350
October 2009
25 pence

Group and Registered Society pages

Any group can request PWF filespace via <http://www.cam.ac.uk/cs/request/grpresources.html>. After this has been successfully processed the group may publish pages on the Computing Service webserver <http://groups.pwf.cam.ac.uk/groupid/> where 'groupid' is the group name agreed on set-up. Registered societies should see the information under 'Publishing onto www.societies.cam.ac.uk' for more information. Currently the total group filespace limit is 250MB. Requests for increases in filespace may be sent to user-admin@ucs.cam.ac.uk but will probably require academic justification.

The group filespace has at least one manager who can give other users the ability to update pages. This is done by assigning rights to directories for that user. A manager can also make another user a manager. Assigning rights is a separate process from creating directories and files and is detailed in the section 'What to do first'.

Any group that publishes pages on this server **must** have a group e-mail address to which comments, complaints and administrative messages can be sent. It is the group's responsibility to ensure that electronic mail is collected and dealt with. Apparently abandoned or malfunctioning web pages may be removed.

Registered Societies and Clubs (see <http://www.cam.ac.uk/about/socinfo/> for details) can request to have a link to their filespace included on the page <http://www.societies.cam.ac.uk/> and use the URL <http://www.societies.cam.ac.uk/groupid/> as the access point to their web pages. To do this send an email to societies-admin@ucs.cam.ac.uk.

Personal pages

Default web pages

If you are a new user or haven't previously created a directory called `public_html`, a directory, index page and simple stylesheet will now have been created for you. You can use these as a basis for a simple web page. If you'd like to get a copy of the files, they may be found at <http://www.cam.ac.uk/cs/pwf/web/public-html-default.zip>.

Locating your personal filespace through the PWF

Log in to the PWF in the usual way (see <http://www.cam.ac.uk/cs/pwf/gettingstarted/>). You will be connected to your filespace and it will be easily visible.

Locating filespace remotely

When accessing your PWF filespace, you can use a number of methods. You can work on your web pages on another computer and then transfer them to the PWF.

- **sftp access** is by logging in to sftp.pwf.cam.ac.uk, using your standard PWF username and password. You will be logged into your personal filespace. To get to the group directories, go to `/ux/groups/`

- **ssh access to the Remote Linux service** - ssh to linux.pwf.cam.ac.uk and cd to `/ux/groups/`
- **CIFS access** (only from within the CUDN) mounts your PWF filespace on your desktop. The web pages at <http://www.cam.ac.uk/cs/pwf/remote/cifs.html> give instructions, depending on the operating system of your computer.
- Use the **NetStorage web interface** at <https://netstorage.pwf.cam.ac.uk/netstorage>). This enables you to list your PWF files, transfer them between the PWF and your local machine, delete, rename, or move them. You can display but not edit the contents of some types of file (depending on the capabilities and configuration of your web browser). To properly use netstorage, you need to have javascript and pop-ups enabled for the site in your browser. It is available outside the cam domain.
When you go to the web interface it will request your user identifier and PWF password, and then display a window containing two icons: DriveU@userid contains your PWF files
- **WebDAV access** is also available via <https://netstorage.pwf.cam.ac.uk/webdav>. More information about browser/client suitability for this service is available at <http://netstorage.pwf.cam.ac.uk/webdav.html> Mac users are recommended to use Goliath rather than the Finder (see <http://www.webdav.org/goliath/>).

Serving web pages from your filespace

To serve web pages from a PWF filespace, you must have a directory in your filespace and named `public_html` - this will act as your webspace directory. If you have a new account or have not previously created such a directory, a default version of the directory and content will have been inserted for you. This name is case sensitive and no other directory name will be recognised. Any files in this directory and any changes you make to them will be seen on the web immediately. The default web page looks like this:

The personal filespace limit is 500MB, which includes all files in your web space. Requests for increases in filespace may be sent to user-admin@ucs.cam.ac.uk but will probably require academic justification.

Group and Registered Society pages

The user named on the application form for a group filespace is given full access rights to the directory. Subsequent management - allowing other group members access, for example - is left in the hands of this user and any others to whom they give the appropriate access rights. Further information about rights follows - full information is at <http://www.cam.ac.uk/cs/docs/infosheets/is17/>

Locating group filespace through the PWF

Log in to the PWF in the usual way (see <http://www.cam.ac.uk/cs/pwf/gettingstarted/>).

Using Windows XP™: Click on the Start menu. Click on My Computer then double-click `UX on PWF-shared (X:)`, then the groups directory and locate your society directory.

Using a Macintosh: When you log in to the PWF you will automatically be connected to `PWF-SHARED.UX`. An icon will appear on the desktop. Select the groups directory and locate your group directory.

Using Linux: Double click on the **Computer** icon. Click on **Filesystem > ux > groups**. Now locate your society directory. You could also use a terminal window.

Locating filespace remotely

When accessing your PWF filespace, you can use a number of methods. You can work on your Web pages on another computer and then transfer them to the PWF. You can change rights when connected via remote linux (ssh) or NetStorage but you cannot change rights when connected by sftp.

- **sftp access** is by logging in to sftp.pwf.cam.ac.uk, using your standard PWF username and password. You will be logged into your personal filespace. To get to the group directories, go to `/ux/groups/`
- **ssh access to the Remote Linux service** - ssh to `linux.pwf.cam.ac.uk` and cd to `/ux/groups/`
- **CIFS access** (only from within the CUDN) mounts your group filespace on your desktop. The web pages at <http://www.cam.ac.uk/cs/pwf/remote/cifs.html> give instructions, depending on the operating system of your computer, but note that you need to connect to `cifs-shared.pwf.private.cam.ac.uk` to access group filespace.
- Use the **NetStorage web interface** at <https://netstorage.pwf.cam.ac.uk/netstorage>). This enables you to list your PWF files, transfer them between the PWF and your local machine, delete, rename, or move them. You can also

modify access rights via this interface. You can display but not edit the contents of some types of file (depending on the capabilities and configuration of your web browser). To properly use netstorage, you need to have javascript and pop-ups enabled for the site in your browser. It is available outside the cam domain.

When you go to the web interface it will request your user identifier and PWF password, and then display a window containing two icons: DriveX@UX contains group and society filespaces.

To view or modify access rights for a file or directory, right-click on the file or directory and select **Properties**, then click the **NetWare Rights** tab to view or modify rights.

- WebDAV access is also available via <https://netstorage.pwf.cam.ac.uk/webdav>. More information about browser/client suitability for this service is available at <http://netstorage.pwf.cam.ac.uk/webdav.html> Mac users are recommended to use Goliath rather than the Finder (see <http://www.webdav.org/goliath/>).

What to do first

Use a PWF PC workstation and either Windows or Linux (rights cannot be administered from a Mac). The following describes commands in Windows - further down the page there is a list of equivalent Linux commands that can be used at a PWF Linux workstation or remote PWF Linux.

- Log in and open an MS-DOS window using **Programs > Command Prompt** from the startup menu. Type **X:** then move to your Society's pwf filespace by typing `cd groups/filespaceName` and pressing return.
- Create a subdirectory named `public_html` within the group filespace by typing `mkdir public_html` and pressing return.
The `public_html` directory is where all the files that are to appear on the web should be placed.

Giving rights to other users

The `RIGHTS` command is used to give users other than the manager the ability to update pages. To give another user (in this example, `abc1`) full access to `public_html`, you will need to grant them Read, Write, Create, Erase, Modify & File-scan permissions as in the following example:

```
cd public_html (if you aren't already in it)
```

```
RIGHTS public_html RWCEMF /NAME=.abc1.aliases
```

Making another user 'manager' of a directory

Throughout this document, the term 'manager' is used to mean a user who has sufficient access rights within a directory to be able to alter access rights for other users.

The following command grants full rights (which is also expressed as 'ALL') for a directory to a user abc1:

```
RIGHTS directoryname ALL /NAME=.abc1.aliases
```

Thus, from a society filespace, to give user abc1 full rights to the filespace, use:

```
RIGHTS . ALL /NAME=.abc1.aliases
```

Changing rights on Remote PWF Linux (or at a PWF Linux workstation)

To modify access rights on remote PWF Linux or at a PWF Linux workstation, you can use various special commands starting with nw (for NetWare). The command "nw (tab)(tab)" will list these, and most have man pages. Some simple equivalents to the Windows RIGHTS command are:

- `nwrights directoryname` to check your access rights to the current directory
- `nwtrustee2 directoryname` to check what other users have access
- `nwgrant -r "[RF]" -o .abc1.aliases directoryname` to allow user abc1 to read files in a directory
- `nwgrant -r "[RWCEMF]" -o .abc1.aliases directoryname` to allow abc1 full access to the directory (read, create, erase, modify, filescan)
- `nwgrant -r "[RWCEMFA]" -o .abc1.aliases directoryname` to make abc1 a manager of the directory (all the above plus modify access rights)
- `nwgrant -r "[]" -o .abc1.aliases directoryname` to withdraw all rights from abc1 (who will still appear on rights lists)
- `nwrevoke -o .abc1.aliases directoryname` to remove abc1 altogether from the rights lists

Further information on rights

Further details on the RIGHTS command can be found in Information Sheet *IS17: Managing a PWF group filespace*, available from CS Reception or online at <http://www.cam.ac.uk/cs/docs/infosheets/is17/>. Netware file protection is hierarchical and by default, sub-directories inherit rights from the parent directory. By default, therefore, if a filespace manager allows others write or update access to the PWF directory in general, special steps will need to be taken to ensure that only those who are intended to have write and update access to the web information do so.

NB If you create a replacement `public_html` directory some time later, don't forget to grant the necessary access.

Publishing onto www.societies.cam.ac.uk

If you are a registered society then on request your pages can be published at URLs at <http://www.societies.cam.ac.uk/> and listed on the index page at that URL (this replaces the list previously found at <http://www.cam.ac.uk/societies>). The pages will then no longer be available at <http://groups.pwf.cam.ac.uk/>. If your registered society web pages are published elsewhere, you can request that the URL is listed on <http://www.societies.cam.ac.uk/>. Requests should be made to societies-admin@ucs.cam.ac.uk.

Transfer of your web pages from the PWF

If your registered society decides to move your web presence to a different web server, remember to remove the `public_html` directory from the groups filesystem. You can request a redirection by emailing to societies-admin@ucs.cam.ac.uk.

Transfer of responsibility for group PWF filesystems

If you are about to leave your group or society post, please remember to arrange for another manager to take over responsibility of the filesystem. Grant them appropriate rights using the `RIGHTS` command and tell user-admin@ucs.cam.ac.uk or societies-admin@ucs.cam.ac.uk who the new manager is.

If you are the new manager of a group filesystem and the previous manager has left without granting you the correct access rights, email user-admin@ucs.cam.ac.uk or societies-admin@ucs.cam.ac.uk.

The PWF web server

Facilities available

The web server is an Apache configuration. The manual is available at <http://www.cam.ac.uk/cs/pwf/web/manual/>

- A list of recognised file types and other updated information may be found at <http://www.cam.ac.uk/cs/pwf/web/> - files with suffixes other than those listed on this page may be wrongly served. If there is a particular reason a filetype should be made available, please contact societies-admin@ucs.cam.ac.uk and the request will be considered.
- Simple directory indexing is turned on by default. 'AllowOverride indexes' is enabled as well. 'FancyIndexing' is turned off by default. Index files named `index.html` or `index.htm` or `index.shtml` will be served by default in that order of appearance.
- Per-directory configuration files (`.htaccess` files) can be used in any directory, but on the PWF are named `htaccess`. Errors in `htaccess` files will lead to web pages declaring an internal server error in the directory or directories affected.

- Access by search engines has not been disabled so files that are linked to may be indexed as and when they are found by search engines.
- Pages can be set up to be viewable only in *.cam.ac.uk or by Raven authentication. Make a directory named ucamonly within any webspace directory and place such files within it. Any content will be viewable only within *.cam.ac.uk or by Raven authentication and will not be indexed by external search engines.
- There is no default character encoding. You can apply character encoding by adding the following line in the head part of your web page, adding a suitable character set, for instance:

```
<meta http-equiv="content-type" content="text/html; charset=gb18030" />
```

A list of character encodings that may be applied may be found at <http://www.cam.ac.uk/cs/pwf/web/chartransenc.html> Apache can also accept alternate character encodings by appending the filename with the extension, for instance `index.html.latin5`

- Server Side Includes (SSI) may be used.

Facilities not available

- Access control by password and/or IP address (other than ucamonly, described previously)
- Access counters (for a variety of reasons these are seldom to be trusted)
- CGI scripts, ASP and PHP, and other forms of dynamic content handled by the server (other than SSI)
- Access to logfiles
- Symlinks (Unix), Shortcuts (Windows) or Aliases (Mac) are not followed by the web server.

Other points and guidelines

- Apparently abandoned or malfunctioning pages may be removed. PWF accounts may be suspended if guidelines are contravened.
- Browser-specific pages should be avoided. Browser scripting and programming facilities (e.g. JavaScript, Java) should be used sparingly. You must ensure that your pages work on several browsers and on other platforms than just Windows.
- HTML documents should be validated to conform to a DTD in order that they are usable by a maximum number of users.
- There are some easy ways to test, validate and check accessibility of your pages more thoroughly by using the Firefox browser with some extensions. The web developers toolbar extension and the Total Validator extension are particularly

useful. You can install them into your PWF account. See <https://addons.mozilla.org/en-US/firefox/search?q=&cat=1%2C4> for a list of web developer extensions.

- When a user account is cancelled, personal web pages will cease to be served.

Web pages published from public_html on the PWF

Each directory and sub directory should have a valid index file (usually index.html) that is the 'entry' page for the directory, else a directory listing will be served.

File and directory naming

- Filenames must have a suffix indicating the type of document (see list on <http://www.cam.ac.uk/cs/pwf/web/>). Although the PWF web server is not case-sensitive, we recommend filenames should only contain lowercase letters (a-z), digits (0-9), and the punctuation characters ",", "-" and "_". For the file to be served, the "." character must not appear at the start of a filename. For maintenance and ease of use, shorter and obvious filenames are better.
- PC and Macintosh browsers are not case sensitive and, when used locally on a PC or Mac, will recognise the names in lower-case even if file names of documents are seen as upper-case. Unix/Linux is a case-sensitive operating system and users of Linux should be aware of the difference.
- We recommend directory names should contain only the characters listed above and be short for ease of use.

Help with HTML

The default PWFweb page that's now installed for new users is there to help get you started and has a number of pointers to sources of help. If you'd like to get a copy of the files, they may be found at <http://www.cam.ac.uk/cs/pwf/web/public-html-default.zip>.

There are Computing Service courses that will teach you about writing web pages, plus self-teach tutorials available from Computing Service Reception. See <http://www.cam.ac.uk/cs/courses/> for further information and online booking. A number of HTML editors are available on the PWF to help you write files. If you choose to obtain a free html editor, do make sure it is up to date and produces valid code.

HTML dog (<http://htmldog.com/>) contains articles and tutorials to help you with writing HTML. Control the appearance of your pages by using cascading style sheets rather than formatting inline.

Reporting problems and getting help

Report problems with the PWF web server first to the Computing Service Help Desk (help-desk@ucs.cam.ac.uk).

Further Documentation

Online PWF information is available at: <http://www.cam.ac.uk/cs/pwf/>.

The information in this document may be available in other forms. Please telephone the Information Group coordinator on 334598 or e-mail documentation@ucs.cam.ac.uk to discuss what is available, any special requirements for presentation and how we could meet them.

Leaflet number: M350.

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