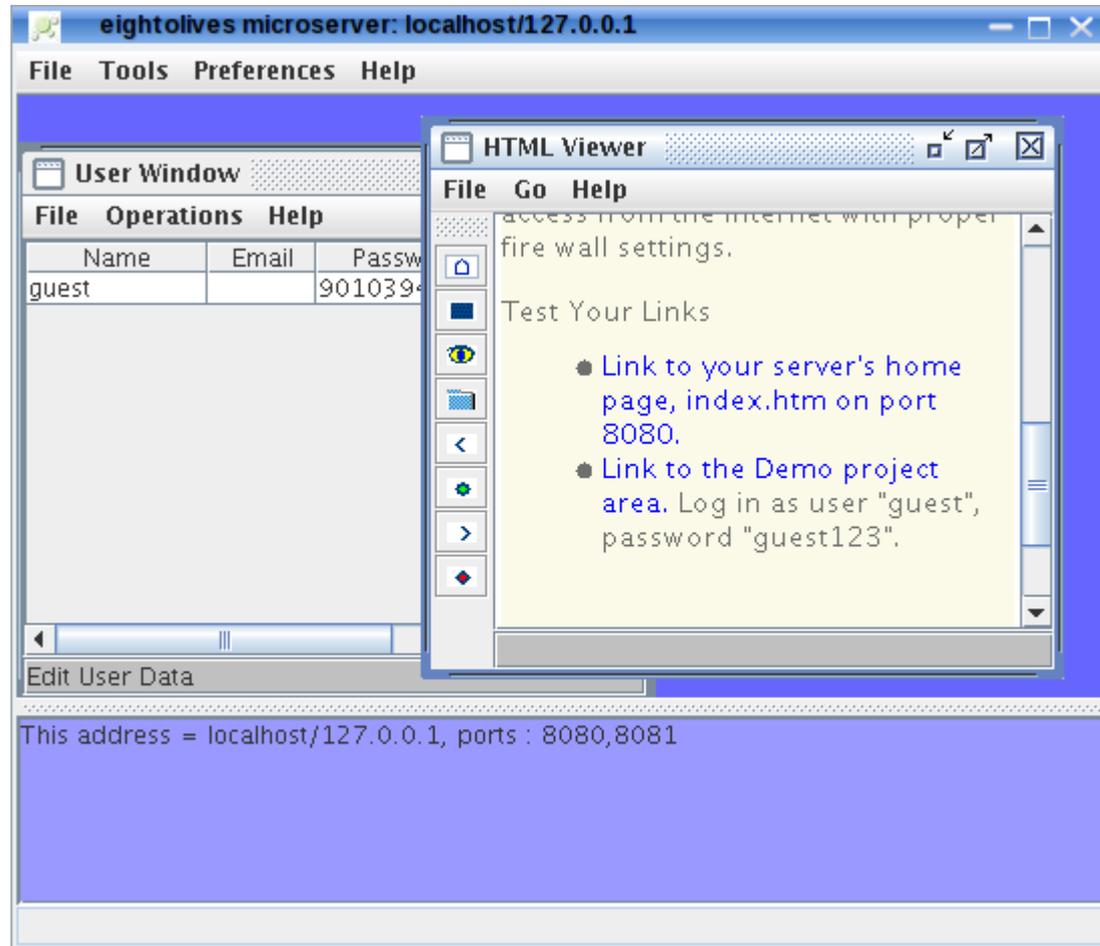


Microserver

An Overview



The eightolives Microserver implements a simple, GUI-driven, web server on your PC.

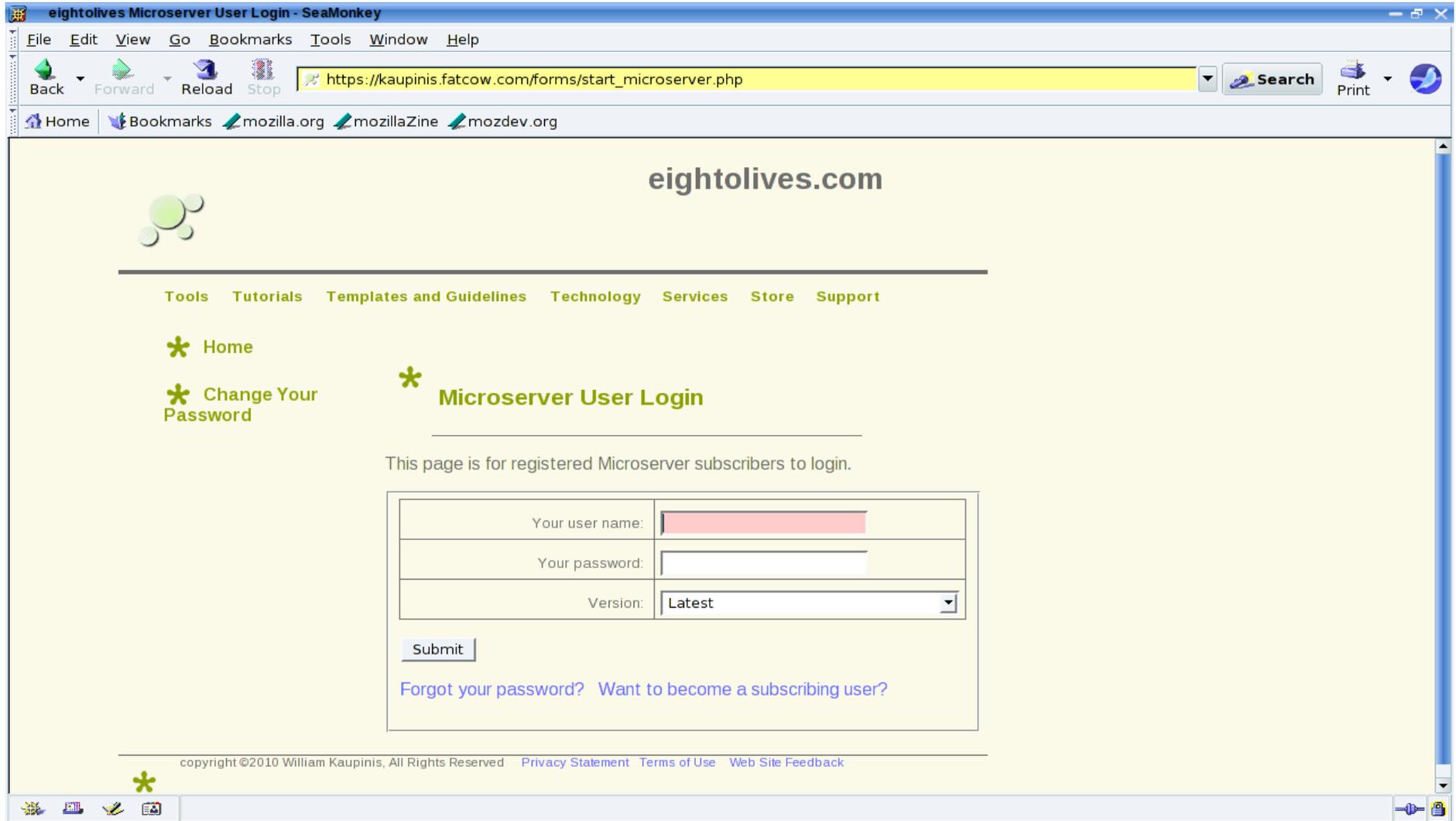
You can:

- Run a personal web server on your PC
- Open read access to documents in the “public” folder
- Password protected access to files in “project” folders
- Support normal http and secure https protocols
- Add and manage users using simple dialogs
- Limit access to your local “intranet” or allow external “Internet” access based on external firewall settings

What do I use it for?

- You use Microserver to serve HTML web pages, pdf files, images, media and other documents.
 - For example, this tool lets you access your documents or mp3 files remotely from your iPod
- Password protected “project” directories can only be accessed by users to whom you assign certain privileges

Log In to Download Microserver



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Start at <http://www.eightolives.com/index.htm> and select Microserver in left margin.

Installation occurs on first startup

- Microserver will prompt you to select a directory in which to put your files
- It then automatically installs the structure:

eo_microserver

users.xml – the file that contains user information on those who can access projects

mime_types.xml – a file that describes the type of data being sent based on filename suffix

public – the directory structure for public documents

 public/docs – subdirectory for documents accessible by anyone who can connect to your computer

 index.htm – default Home Page accessible by anyone who can connect to your computer

projects – the directory of restricted, password-protected projects

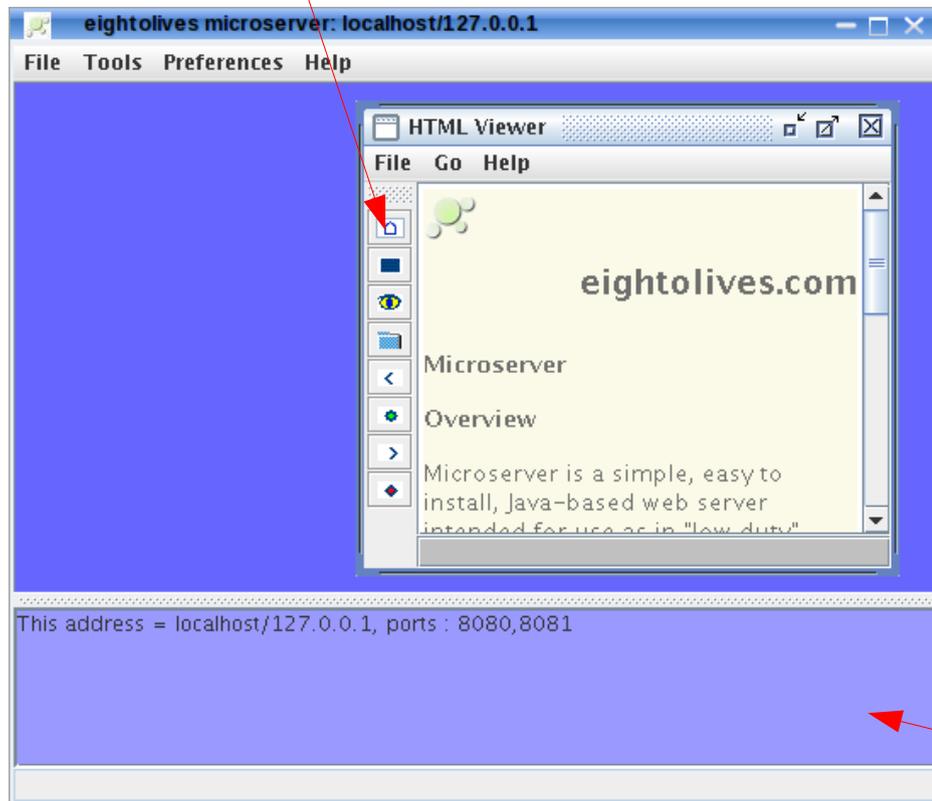
 projects/demo – default demonstration project directory

 projects/demo/upload – subdirectory to which project users with WRITE privileges can store files

 index.htm – default Home Page accessible by project users who have READ access privileges

Microserver display has a Tool Area and a Status Area

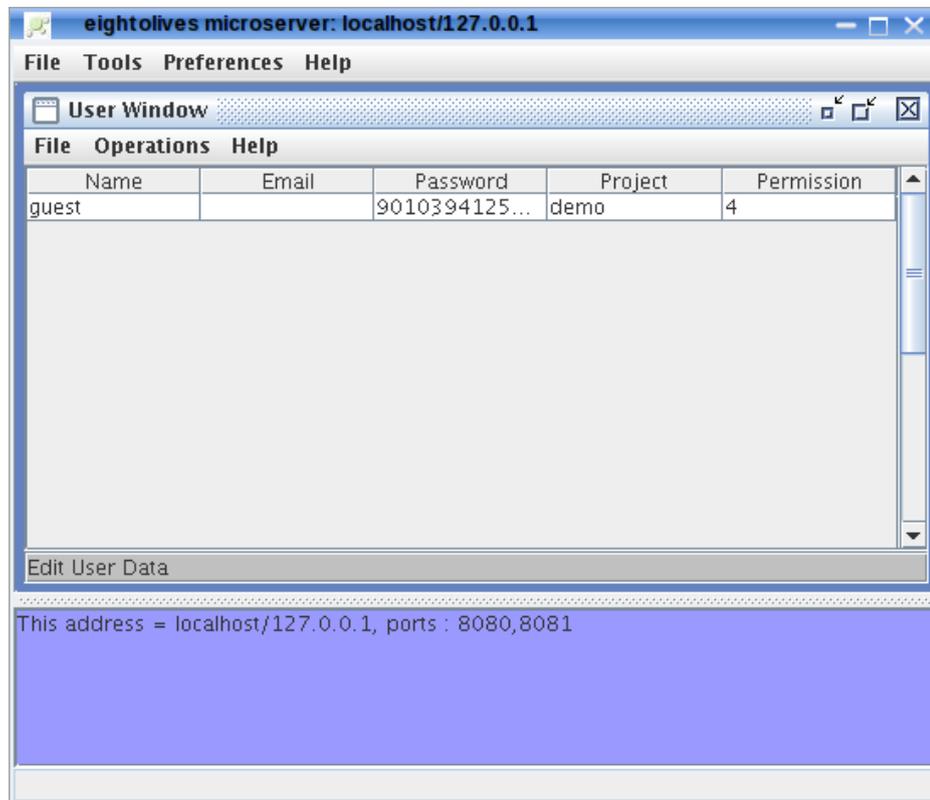
Click Home icon to view your Home Page



- The Microserver window starts with a simple web browser in the upper panel.
- Server status is reported in the lower panel.

Status Area shows a log of activity.

Menu Option Tools > Edit Users



- The User Window shows all users that can access project directories.
- Operations include Add a User, Edit a User and Delete a User

Easy to Add or Edit User data

The screenshot shows a web application interface. At the top, there is a 'User Window' with a menu bar containing 'File', 'Operations', and 'Help'. Below the menu bar, there is a table with a single row containing the name 'guest'. A dialog box titled 'Add New Entry' is open in the foreground. The dialog box has a yellow background and contains the following fields and controls:

- Name:** A text input field.
- Email:** A text input field.
- Click to Add a Password:** A button.
- Password:** A text input field with a red background, indicating that the password is encrypted.
- Project:** A text input field.
- Permission:** Three checkboxes: 'Read' (checked), 'Write' (unchecked), and 'Execute' (unchecked).
- Add Entry:** A button.
- Cancel:** A button.

Enter the User Name

Optional email

Click button to assign a new Password.

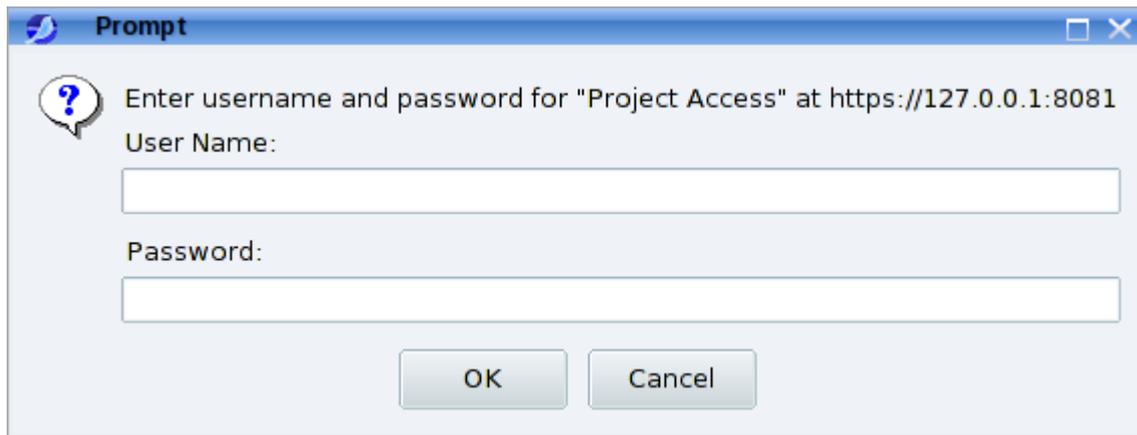
The displayed Password is encrypted

Enter the project (directory) name

Select permissions (default is Read)

Click to add data.

Web browsers will prompt you for access to Project directories



To access the demonstration project included as a default, set your web browser to;
<http://127.0.0.1:8080/projects/demo/index.htm>

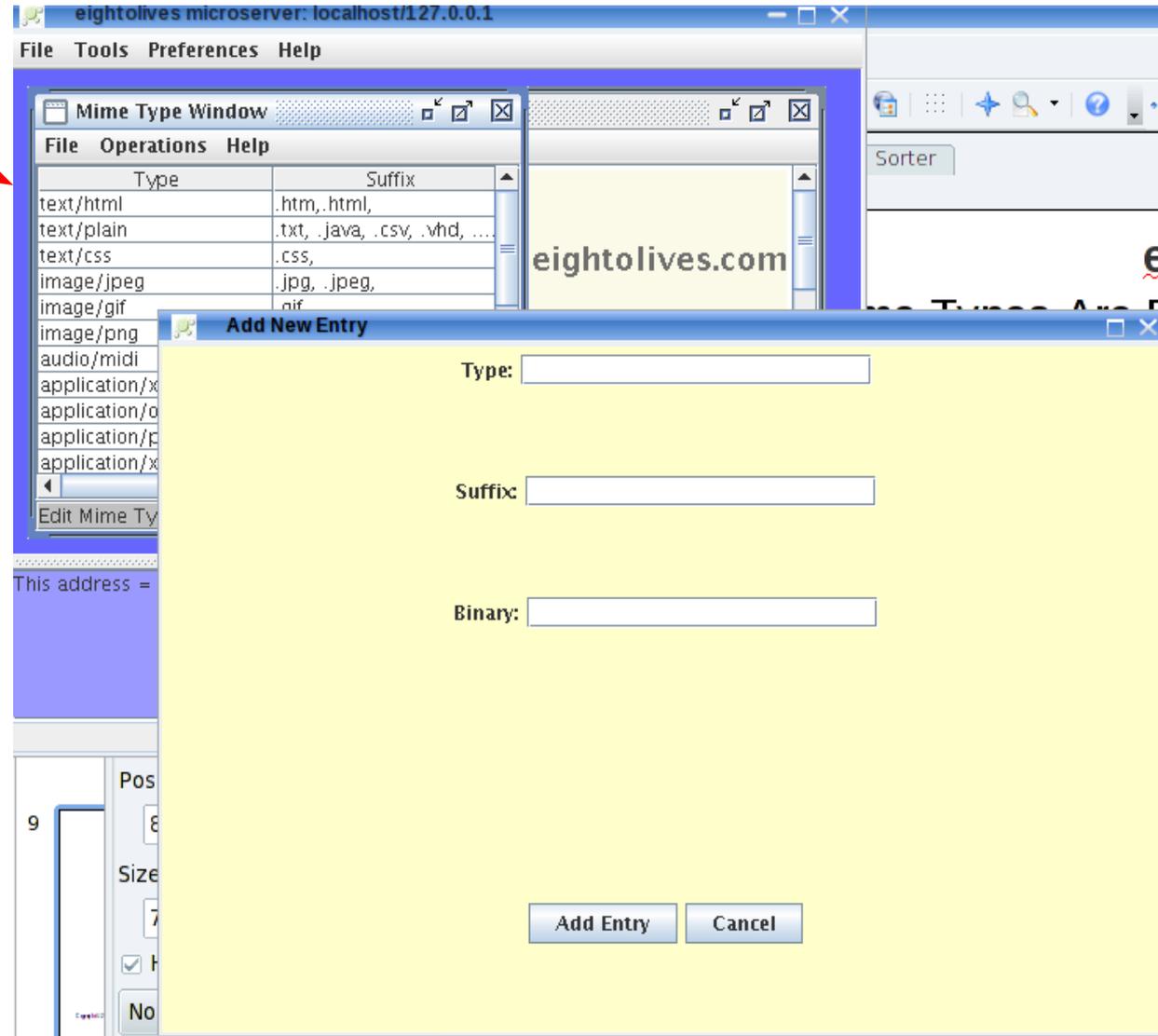
At the prompt, enter:
User Name: guest
Password: guest123

Passwords must be at least 8 characters in length.

Standard Mime Types Are Predefined

Mime Types relate the data type with filename suffixes.

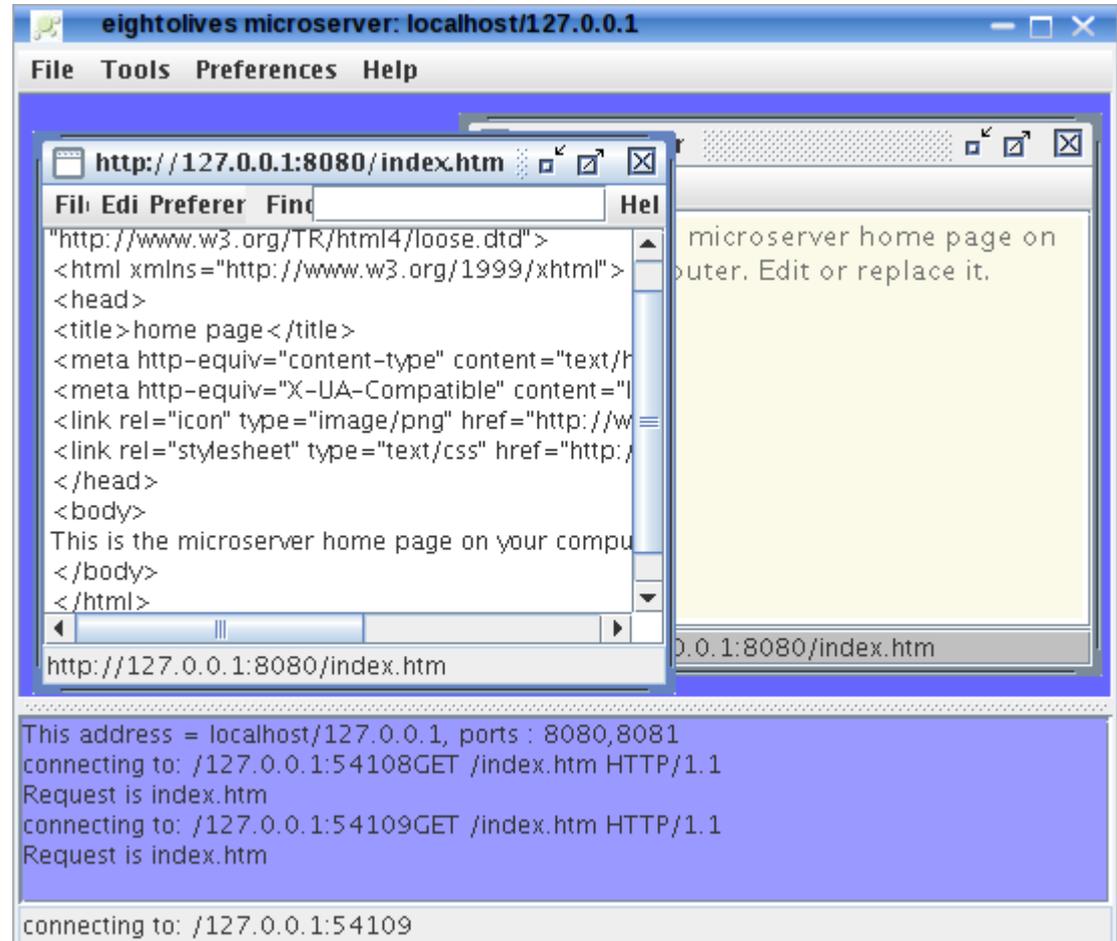
You can easily add or edit others if necessary.



The Built-In Simple Browser Lets You View the HTML Code in a Text Editor

This feature lets you edit and save the HTML code easily.

Template web pages can be selected from the eightolives site and then saved to your web server directory.



Two Protocols Are Supported

- HTTP

- The typical protocol used on the Internet

- HTTPS

- The standard secure protocol used on the Internet

Microserver *Does Not* Default to Standard IP Ports

- The standard IP ports require Microserver to be run with administrative privileges
 - Http traffic on port 80
 - Https traffic on port 443
 - You *can* select to use these ports if you wish via the Preferences Menu and then restarting
- The default IP ports used by Microserver only require user privileges to run
 - Http traffic on port 8080
 - Https traffic on port 8081

Preferences are saved when you exit.

URLs

- URLs to your server must specify an IP number
- When you use non-standard ports, URLs must also specify the port number
- Examples:
 - <http://127.0.0.1:8080/index.htm> Your Home Page
 - <https://127.0.0.1:8081/projects/demo/index.htm>
the Home Page of the demonstration project

Several IP Numbers May Connect to Your Server

- IP numbers have the format xxx.yyy.uuu.zzz
- 127.0.0.1 is the loopback IP address you can use to access your web pages without using the external network
- If you connect to the Internet through a router, an internal network IP address such as 192.168.0.18 allows computers on the internal network to access your computer
 - On a command line, run ipconfig (Windows), ifconfig (Linux) or netstat to determine your internal IP address
 - URL to your home page would be:
<http://192.168.0.18:8080/index.htm>

Internet Presence

- Your router has a global Internet IP address
 - Computers on the Internet can access your computer if your router is configured for Port Forwarding
 - Refer to your router's instructions or administrator on port forwarding
 - A home router's setup page is sometimes accessed as <http://192.168.0.1/>
- The eightolives Connect Me page provides links to your global IP address (port 80 typically your router) and to port 8080 to access your computer via port forwarding.

Connect Me is accessible from the eightolives home page: <http://www.eightolives.com/>.

Hints

- The home page of any directory should be called *index.htm*
- IP numbers are often assigned dynamically meaning they can change each time you power up your computer or router.

For more information

- Check the tutorials at:
<http://www.eightolives.com/tutorials.htm>
- Review bug reports and status from the Microserver home page at:
<http://www.eightolives.com/docs/Microserver/index.htm>