Introduction

BuddyWeb is a multi-user web based interface for management and control of QA Cafe test suites including CDRouter. BuddyWeb simplifies many of the tasks associated with running and managing test runs. Using BuddyWeb, QA engineers and developers can configure, execute, and view results of test suites right from a web browser. These results can be easily shared with other parts of a product organization using a web browser or printable reports.

BuddyWeb allows you to:

- Create "packages" to capture configuration, test selection, and run time options
- Initiate test runs via the web or command-line
- View results while tests are running or later
- Bundle together logs and capture files
- Integrate directly with Ethereal to view capture files
- Share web based results with engineers and managers

Installation and Requirements

BuddyWeb is included as part of the installation process of each QA Cafe test suite. Before running BuddyWeb, your license file must be updated to enable all of the BuddyWeb features.

The BuddyWeb binary is installed under `/usr/bin/buddyweb` on all Linux systems. When the binary is running, a web server is created on the test host that provides the BuddyWeb interface. Web browsers running on the same system or any remote system may connect to the BuddyWeb server.

BuddyWeb only supports the Firefox web browser. Other web browsers are not supported. The latest version of Firefox may be downloaded from `http://getfirefox.com`. Firefox supports Linux, Windows, and Mac operating systems.

The web screens of BuddyWeb are designed for a display setup of at least 1024x768. Buddyweb can still be run with lower resolutions, but a high resolution is recommended.

Starting BuddyWeb

BuddyWeb can be started directly on the command-line by running `/usr/bin/buddyweb` as root. It is recommended that you configure your system to automatically start BuddyWeb each time the system is started using an `init.d` start-up script. Detailed instructions for configuring start-up scripts for each system are provided in **Appendix A** of this guide.

By default, BuddyWeb starts up as a web server on port 8015. This port number may be changed by specifying the `-port` option when running `/usr/bin/buddyweb`.

Once the BuddyWeb server is running, you may connect to BuddyWeb using your browser by specifying the test host and port number as a URL.

Examples:

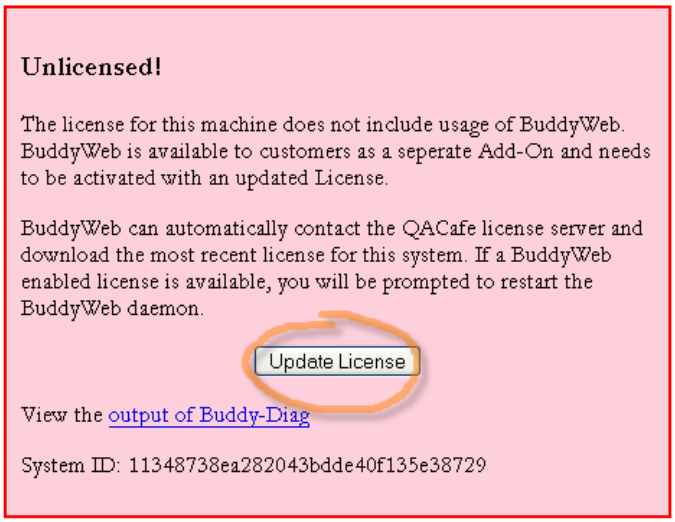
- BuddyWeb running on host 4.3.2.1 with the default port number
  Open URL `http://4.3.2.1:8015`

- Connect using a web browser running on the same system
  Open URL `http://localhost:8015`

Updating the License

The first time you connect to BuddyWeb, you will need to update your license using the following steps:

1. Contact `support@qacafe.com` to make sure BuddyWeb has been enabled for your system.
2. Open the URL for your BuddyWeb system. For example `http://4.3.2.1:8015`
3. Select the '**Update License**' button. See the screen shot on the right.
4. After the update, restart BuddyWeb. If you have enabled the init.d script, you can run: `/etc/init.d/buddyweb restart`. Otherwise control-C or kill the buddyweb process.
5. After restarting BuddyWeb, re-connect to the BuddyWeb URL. You should see the BuddyWeb home page.
6. For more help, contact `support@qacafe.com`.



Secure BuddyWeb

BuddyWeb supports both http and https access. The default https port is 8016. This may be changed using the –https-port option from the buddyweb command-line. The BuddyWeb home page contains a link to switch between http and https.

By default, BuddyWeb does not require a password to access the web interface. You may enable a password from the **Advanced** tab.

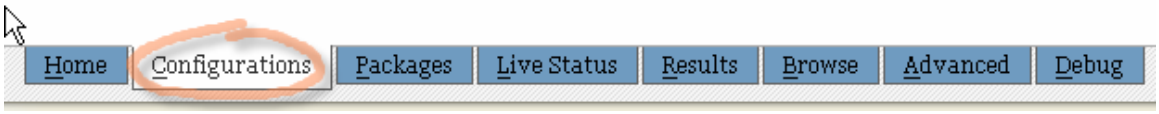
BuddyWeb Concepts Overview

BuddyWeb provides several navigation "tabs" at the bottom of each page. Use these tabs to navigate through the BuddyWeb interface.

Config Manager

Each test suite requires a configuration file that defines many aspects of the test setup – the configuration of the device under test, the network interfaces on the test host, the features that the device supports, etc. From the **Config Manager** you can create and edit configuration files for the test suite.

Use the "Configurations" tab to open the **Config Manager**.



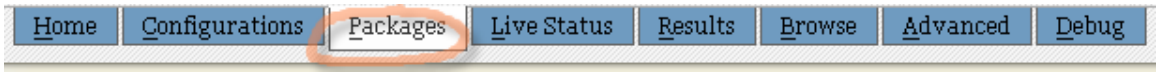
When the Edit button is selected from the Config Manager, BuddyWeb will open the Configuration Editor which can be used to make changes to the configuration file. The Configuration Editor is a text based window that allows you to directly edit the **testvars**. After editing, save your changes by selecting the **Save** button.

TIP: Use Control-F to open up a search box in the Configuration Editor window.

Packages and the Package Manager

BuddyWeb uses **packages** to organize a test run. A package consists of a specific configuration file, selected test cases, and various run time options. For users familiar with the buddy command-line, a package is used to collect all the various command-line options along with the configuration file. All of these items are grouped together into a package that can be uniquely named. Once the package has been created, BuddyWeb can run the package to provide the results.

BuddyWeb provides a Package Manager that is used to create and manage packages. Use the "Packages" tab to open the **Package Manager**.



From the Package Manager, you may view existing packages, create new ones, or start the execution of a package.

The **New** button from the Package Manager is used to open the Package Creator Wizard. This wizard guides you through the process of creating a new package.

Running Packages

Once a package has been created, it can be run by selecting the run icon from the package list.

TIP: You can also run a package directly from the BuddyWeb home page using the package quickstart box.

Live Status

When a package is started, the live results can be viewed by selecting the "Live Status" tab. By default, BuddyWeb will prompt the user to restart the router under test using a dialog box on the Live Status page.

During the test run, the status of each test is displayed on the Live Status page along with links to log files and capture files.

Results

Once the package is finished running, all of the results and logs that were generated are saved automatically. BuddyWeb provides convenient access to all of the results on the system through the Results tab.

From the results tab you can see when a package was run, results, times, and size of the related logs and capture files. Here, you can view your package results in a number of ways:

 View the completed package results page

 Open the Log Directory containing all logs and capture files

Open a printable final-report

Download the entire log directory as a compressed file

Archiving Results

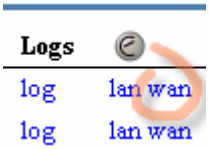
After using BuddyWeb for a while, your Results page will start to build up with old results. Instead of deleting them, you can move them into an **Archive**. The archives will help you organize all of the results on your system.

To archive results, select the desired rows of results, and choose an archive name from the drop-down box labeled "Move to Archive". If you are creating a new archive, you will be prompted for a name.

To view the archives and their contents, choose the "Archives" link at the top of the Results tab. Clicking on the name of an archive will show you its contents which can be used the same ways described above for non-archived results.

Capture Files

BuddyWeb makes it easy to view the capture files for any tests case. From the Live Status or Results tab, select a link from the Capture column. The Capture column has an Ethereal logo at the top. Links to the capture files are based on the name of the interface. The first time you try to open a capture file using Firefox, the browser will prompt for the helper application. At that time, select the location of Ethereal on your system.



For example, to select the wan side capture file for a test, select the wan link from the capture list.

Using BuddyWeb with other scripts

To work with other types of automation, BuddyWeb packages can be run directly from the buddyweb command-line using the `-package` option. While test runs can also be started using the buddy command-line, the buddyweb option allows the test runs to later be viewed

and managed through buddyweb. This allows you to write a script that initiates a test run and later check on the status of the results using BuddyWeb.

Example:

```
# /usr/bin/buddyweb -package pppoe-router-a
```

Appendix A

BuddyWeb can be started automatically each time your Linux system is restarted. An `init.d` style start-up script can be found in the /usr/buddyweb/extras directory. There are different scripts available for different Linux distributions. Use the following instructions to configure the system to automatically start BuddyWeb. Once the start-up script is installed, BuddyWeb will start automatically each time the system is booted. For additional help, contact `support@qacafe.com`.

Red Hat

1. Copy the buddyweb.redhat script to /etc/init.d/buddyweb
   ```
   # cp buddyweb.redhat /etc/init.d/buddyweb
   ```

2. Make the init script executable
   ```
   # cd /etc/init.d/
   # chmod 755 /etc/init.d/buddyweb
   ```

3. Run chkconfig --add to create the appropriate links
   ```
   # /sbin/chkconfig --add buddyweb
   ```

4. Run /etc/init.d/buddyweb start to start BuddyWeb
   ```
   # /etc/init.d/buddyweb start
   ```

Fedora

1. Copy the buddyweb.fedora script to /etc/init.d/buddyweb
   ```
   # cp buddyweb.fedora /etc/init.d/buddyweb
   ```

2. Make the init script executable
   ```
   # cd /etc/init.d/
   # chmod 755 /etc/init.d/buddyweb
   ```

3. Run chkconfig --add to create the appropriate links
   ```
   # /sbin/chkconfig --add buddyweb
   ```

4. Run /etc/init.d/buddyweb start to start BuddyWeb
   ```
   # /etc/init.d/buddyweb start
   ```

SUSE

1. Copy the buddyweb.suse script to /etc/init.d/buddyweb
   ```
   # cp buddyweb.suse /etc/init.d/buddyweb
   ```

2. Make the init script executable
```
# cd /etc/init.d/
# chmod 755 /etc/init.d/buddyweb
```

3. Run insserv /etc/init.d/buddyweb
```
# /sbin/insserv /etc/init.d/buddyweb
```

4. Run /etc/init.d/buddyweb start to start BuddyWeb
```
# /etc/init.d/buddyweb start
```

Debian

1. Copy the buddyweb.debian script to /etc/init.d/buddyweb
```
# cp buddyweb.debian /etc/init.d/buddyweb
```

2. Make the init script executable
```
# cd /etc/init.d/
# chmod 755 /etc/init.d/buddyweb
```

3. Run update-rc.d
```
# update-rc.d buddyweb defaults
```

4. Run /etc/init.d/buddyweb start to start BuddyWeb
```
# /etc/init.d/buddyweb start
```