

BatchKi Installation Instructions

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Introduction

This document describes installation instructions for a demo version of the software BatchKi, specifically configured to run on a desktop computer under Windows XP.

BatchKi Installation Instructions

Prerequisites: Perl and Apache

BatchKi requires for its operation two pre-requisite pieces of software:

1. The Apache web server (a.k.a. HTTP server)
2. The Perl interpreter

Installing Perl

The appropriate Windows version of Perl is available from ActiveState.COM:

- <http://www.activestate.com/Products/Download/Download.plex?id=ActivePerl>
- Click "MSI" ("Microsoft Installer") on the left

Installing Apache

The Apache HTTP server is available from the Apache Foundation website:

- <http://httpd.apache.org/download.cgi>
- Under "Apache HTTP Server 2.2.3 is the best available version"
- Click "Win32 Binary (MSI Installer)": [apache_2.2.3-win32-x86-no_ssl.msi](#)

Testing Apache

After the Apache server is installed, check to see if it is working properly by pointing your web browser to **http://localhost/**, or (equivalently) **http://127.0.0.1/**.

Testing Apache/Perl CGI ("Common Gateway Interface")

After both Apache and Perl are installed, you will find a Perl script called **printenv.pl** in your Apache server's **cgi-bin** directory:

```

#!c:/Perl/bin/Perl.exe
##
## printenv -- demo CGI program
##

print "Content-type: text/plain\n\n";
foreach $var (sort(keys(%ENV))) {
    $val = $ENV{$var};
    $val =~ s|\n|\\n|g;
    $val =~ s|"|\\"|g;
    print "${var}=\"${val}\"\\n";
}

```

This assumes that Perl was installed in the default installation directory (**C:/Perl/bin/Perl.exe**).

Assume instead that the Perl interpreter was installed on the "F:" drive, instead of the usual "C:" drive. If so, change the first line of **printenv.pl** accordingly, using the Notepad text editor:

```

#!F:/Perl/bin/Perl.exe

```

After this change, test the Perl CGI script by pointing the web browser to

- <http://localhost/cgi-bin/printenv.pl>

The following is a sample output in the browser window

```

COMSPEC="C:\WINNT\system32\cmd.exe"
DOCUMENT_ROOT="J:/Apache/Apache2/htdocs"
GATEWAY_INTERFACE="CGI/1.1"
...
SERVER_SOFTWARE="Apache/2.0.48 (Win32)"
SYSTEMROOT="C:\WINNT"
WINDIR="C:\WINNT"

```

Installing BatchKi

1. Unzip the archive file **batchki-install-win.zip** into some temporary directory, while preserving the directory structure. In this example, I will be using the temporary directory **c:_temp**. This will create a directory called **c:_temp\batchki**, and within it the subdirectory **setup**.
2. Open the file **batchki-setup.ini** located in the subdirectory **c:_temp\batchki\setup**, using a text editor such as *Notepad*. This is the listing of the file:

```

; Hand-edit this file before running BATCHKI-SETUP.PL

[batchki-setup]

Perl      = C:/Perl/bin/Perl.exe           ; Perl executable file
Apache    = C:/Program Files/Apache Group/Apache2 ; Apache main directory
HTMLdir   = htdocs/batchki                 ; HTML root, relative to Apache

```

```

CGI_dir = cgi-bin/batchki           ; script root, relative to Apache
Server = 127.0.0.1                 ; server name or I.P. address
RelRoot = ../../../../htdocs       ; document root relative to '*.pl'

OperatingSystem = Windows          ; 'Windows' or 'Linux'
PreserveUserData = Yes
PreserveSettings = Yes

[email] ; use 'Mailer = NONE' to suppress email notifications

Mailer      = NONE
Sender      = No Sender
Recipient   = No Recipient
Subject     = No Subject

[administrator]

Login       = craighill
Password   = admin2004

```

3. Modify the first six lines of the file **batchki-setup.ini**, to reflect the configuration of the computer on which the demo will run. Most important are the first two lines. For example, if the Perl interpreter is located on logical drive **F:** and the Apache HTTP server is located in the directory **J:\Apache\Apache2**, the first two lines of the initialization file would read:

```

Perl      = F:/Perl/bin/Perl.exe
Apache    = J:/Apache/Apache2

```

4. Assuming that the Perl interpreter is already installed, double click on file **batchki-setup.pl** located in the directory **c:_temp\batchki\setup**. This will start the installation proper, starting with the screen display similar to this:

```

~~~~~

Updating Perl path in all *.PL files in directory ./cgi-bin/batchki.
Updated Perl path: [F:/Perl/bin/Perl.exe]

Proceed? <y/n> [Enter]

```

5. Type the letter **y** followed by the Enter key, and repeat as many times as necessary, until the last installation screen:

```

...
...
...
~~~~~

Setting administrator passwords in the files listed below:

[...]/generic/setup/users.txt
[...]/template/setup/users.txt
[...]/assay/setup/users.txt
[...]/upload/setup/users.txt

Proceed? <y/n> [Enter]
y

-----
Execution terminated. Press Enter...

```

Testing the BatchKi Installation

Assuming that the test is being conducted from the same machine on which BatchKi/Perl/Apache is installed, follow these steps:

1. Point your web browser to

http://localhost/batchki/

2. Click on the "**Data Submission Form**" link
3. Click on the "**Upload**" link
4. Under *User Login*, type

User ID: **[Administrator]**

Password: **[test1234]**

5. Click the *Browse* button on the **Data File** line
6. Navigate to directory [c:_temp\batchki \setup\test-data\upload], and select the file **data.xml**.
7. Click the **Browse** button on the **Settings File** line
8. Navigate to directory [c:_temp\batchki \setup\test-data\upload], and select the file **settings.ini**.
9. Click the *Continue* button

After approximately 2-5 seconds, the browser will display the main output window similar to this:

BatchKi Results

Run time: 3 seconds

Output file: Administrator_index.html

- Output file will open in a separate window.
- Press the Back button in the browser to submit more data.

10. Click on the link to the output file **Administrator_index.html**, and navigate in the output pages.