



PDF/GUI print installation instructions

Overview

Follow these instructions to complete the implementation of Fitrix GUI print once the Linux prerequisites have been met. (Requires a Linux Systems administrator). Please contact your Fitrix sales representative if you want assistance with this implementation.

For **GUI print** you will need to have installed:

- 1) PHP
- 2) Apache Web Server

Installation of these prerequisite products is greatly streamlined by using Linux package specific install utilities.

Redhat:

Use the utility 'yum' to install packages. The format is:

```
$ yum install {package}
```

The administrator must have a RedHat Network (RHN) login which in turn requires a valid licensed product.

Debian:

Use the utility 'apt-get' to install packages. The format is:

```
$ apt-get install {package}
```

If you have trouble locating a repository with the packages you need, check the file:

```
/etc/apt/sources.list
```

If you need to install packages from source, you will need a development system-- compiler (gcc), libraries, and development utilities (binutils). Download and unpack the source to each package and use the sequence:

```
$ ./configure  
$ make  
$ make install
```

Details are provided in Appendices.

GUI Print

1. Install and configure PHP if necessary:

Check current version

```
$ php -v  
    PHP 5.1.x (cli) {or higher}
```

If not installed refer to Appendix A.

Make a change to the php configuration file:

```
$ vi /etc/php.ini
```

```
...  
allow_call_time_pass_reference = true [On]  
...
```

2. Install and Configure Apache Web Server if necessary:

If not installed refer to Appendix B.

Make changes to configuration file:

```
$ vi /etc/httpd/conf/httpd.conf
:
: ServerName <server>:80
:
: AddHandler cgi-script .cgi
:
: Alias /pdfprint/ "/var/www/html/pdfprint/"
<Directory "/var/www/html/pdfprint">
    Options Indexes FollowSymLinks
    Order allow,deny
    Allow from all
</Directory>
:
: ScriptAlias /php/ "/usr/bin/"
AddType application/x-httpd-php .php
Action application/x-httpd-php "/php/php-cgi"
```

or (if installed from source)

```
$ vi /usr/local/apache/conf/httpd.conf
:
: ServerName rhino.fgss.com:80
:
: AddHandler cgi-script .cgi
:
: DocumentRoot "/usr/local/apache/htdocs"
:
: Alias /pdfprint/ "/usr/local/apache/htdocs/pdfprint/"
<Directory "/usr/local/apache/htdocs/pdfprint">
    Options Indexes FollowSymLinks
    Order allow,deny
    Allow from all
</Directory>
<Directory "/usr/local/bin/">
    AllowOverride None
    Options None
    Order allow,deny
    Allow from all
</Directory>
:
: ScriptAlias /cgi-bin/ "/usr/local/apache/cgi-bin/"
ScriptAlias /php/ "/usr/local/bin/"
AddType application/x-httpd-php .php
Action application/x-httpd-php "/php/php-cgi"
```

Configure starting the Web server at system boot:

RedHat:

```
$ /sbin/chkconfig --list httpd
$ /sbin/chkconfig --level 345 httpd on
```

-

Debian

```
cd /etc/init.d
update-rc.d -f apache2 remove
ln -s /usr/local/apache/bin/apachectl ./apache
update-rc.d apache defaults
ls -la /etc/rc* | grep apache
```

-

Manually start the server:

RedHat:

```
$ /sbin/service httpd restart
```

-

Debian

```
/etc/init.d/apache start
```

-

3. Do the actual GUI Print Install

```
$ install_guiprint.sh [-s]
```

```
Are you root.....OK
Check for switches.....OK
Find Apache document root...../var/www/html OK
Check Apache document root path exists.....OK
Check for directory '/fitrix'.....OK
Check for directory '/fitrix/fx_tools/bin'.....OK
Check for directory '/fitrix/fx_tools_rt/bin'.....OK
Copy scripts to: '/fitrix/bin'.....OK
Copy scripts to: '/fitrix/fx_tools/bin' and set links to '/fitrix/bin'.....OK
Copy scripts to: '/fitrix/fx_tools_rt/bin' and set links to '/fitrix/bin'...OK
Set permissions under $documentRoot/pdfprint.....OK
Add all users to group 'guiprint'.....OK
Modify '/fitrix/bin/env_xtra.sh.....OK
Clean up.....OK
Backups (if made) are: {name}_20091203_120810
```

Switch -s implies a re-install or update and prevents the overwriting of document templates (*.std).

See Appendix C for details.

Install logos

Make a logo 264 pixel x 48 pixel (2.75 in x .5 in). Format 24-bit 96 dpi RGB 'JPEG'.



Name the logo '**logo_<company>.jpg**' (case sensitive). If the logo does not exist, then **logo_default.jpg** will be used.

The logo resides on the application server in the directory: '**\$documentRoot/pdfprint/images**'.

DATE	NUMBER	PAGE
05/07/09	1128	1

INVOICE

Sold To: CLASSIC PARTS UNLIMITED
22501 72ND
CLEARING POINT BUSINESS CENTER
SOUTH BED IN 04494
US

Ship To: CLASSIC PARTS UNLIMITED
22501 72ND
CLEARING POINT BUSINESS CENTER
SOUTH BED IN 04494
US
USD HOME CURRENCY

Ship Terms: PREPAID SHIP POINT

ORDER NO	ORDER DATE	CUSTOMER	SALESMAN	PURCHASE ORDER	SHIP VIA	TERMS
2634	05/06/09	12	BJ		BEST WAY	E

ORDERED	SHIPPED	BACKORDERED	ITEM	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
69.000	69.000	0.000	12104	SCM A SERIES MULSTRIKE	8.7777	605.66
70.000	70.000	0.000	12104	SCM A SERIES MULSTRIKE	8.7777	614.44
WE APPRECIATE YOUR BUSINESS						

DEPOSIT PAID	
SUB-TOTAL	1,220.10
DISCOUNT	
SALES TAX	.00
FREIGHT	.00
TOTAL	1,220.10

Page 6 of 11 as of 12/3/2009

Fourth Generation Software Solutions, 700 Galleria Parkway, Suite 480, Atlanta, Georgia, 30339
Phone 770.432.7623, Toll Free 1.800.374.6157, FAX 770.432.3448, www.fourthgeneration.com, info@fourthgeneration.com

S:\FGSS Intranet\professional services\standard services\fitrix complete standard services web mirror\support\fitrix.pdf.print\pdf_gui_print_installation_instructions.doc

custinfo3.fitrix.pdf.print/pdf_gui_print_installation_instructions.doc

version 2.0.a 10/23/2009

4. Review of what should now be installed.

- a. Apache server
- b. PHP
- c. Under /fitrix/bin:
pdfviewer.sh
- d. Under \$fgtooldir/bin:
pdfviewer.42r
pdfviewer.sh -> /fitrix/bin/pdfviewer.sh
- e. Under \$documentRoot/pdfprint:
pdfviewer.php
*.std (application php files)
\$documentRoot/pdfprint/images (logos)

5. Testing

```
. /fitrix/bin/env_dev.sh  
/fitrix/bin/pdfviewertest.sh
```

Appendix A:

Install on RedHat

```
$ yum install php
```

Install on Debian

```
$ apt-get install php5
```

Install PHP from source:

```
php-5.2.4.tar.gz
```

Debian:

```
tar xvfz libxml2-x.x.x.tar.gz
cd libxml2-x.x.x
./configure
make
make install
```

```
cd /usr/local/pub [ /usr/src/redhat/SOURCES for Redhat]
tar xvfz php-5.2.4.tar.gz
cd php-5.2.4
./configure
make
make install
```

```
cp /usr/local/pub/php-5.2.4/php.ini-dist /etc/php.ini
```

•

Appendix B:

Install on RedHat

```
$ yum install httpd
```

Install on Debian

```
$ apt-get install httpd
```

Install Apache from source:

Download most recent version from: <http://httpd.apache.org/>

Login as root:

```
mkdir /usr/local/apache ;chmod 777 /usr/local/apache
cd /usr/local/pub
gzip -cd ../httpd-2.2.10.tar.gz | tar xvf -
cd httpd-2.2.10
./configure --prefix=/usr/local/apache
make
make install

cd /etc/init.d ;ln -s /usr/local/apache/bin/apachectl ./httpd

*** Remember that DocumentRoot will now be:
    /usr/local/apache/htdocs
```

Appendix C:

Executing script 'install_guiprint' does the following:

1. Prepare Groups and Accounts

Background print requires read/write access to the archive directory under the Web Server's document root. This can be accomplished by making all users a member of a group with proper permissions. In the example below, the group '**guiprint**' is used.

```
/usr/sbin/groupadd guiprint  
  
Run: /fitrix/bin/pdfgroups.sh > _groups.sh  
sh ./_groups.sh
```

2. Setup up some scripts:

Modify script: /fitrix/bin/env_xtra.sh

```
#!/bin/sh  
#  
# env_xtra.sh  
#  
DBPATH=$DBPATH:$fg/accounting/ut.4gm/lib.4gs  
export documentRoot=/var/www/html [ /usr/local/apache/htdocs If installed from source ]  
export mn_pdfviewer=pdfviewer.sh  
#  
# End...
```

3. Set permissions

```
su  
: ${documentRoot:=/var/www/html}  
cd $documentRoot  
for c in archive pdftest ;do  
  cd $documentRoot/pdfprint/$c  
  cDir=`pwd`  
  while [ ! "$cDir" = "/" ] ;do  
    chmod 775 $cDir  
    chown root:guiprint $cDir  
    ls -ld $cDir  
    cDir=`dirname $cDir`  
  done  
done
```

4. Establish some links (if necessary)

```
. /fitrix/bin/env_dev.sh
cd $fgtooldir/bin
[ ! -L ./pdfviewer.sh ] && ln -s /fitrix/bin/pdfviewer.sh ./pdfviewer.sh

. /fitrix/bin/env_prod.sh
cd $fgtooldir/bin
[ ! -L ./pdfviewer.sh ] && ln -s /fitrix/bin/pdfviewer.sh ./pdfviewer.sh
```