

No bloatware needed

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thttpd configuration

```

```

Change the colors

Eventually change the default green background to white,

```
| grep -r COLOR *
| vi libhttpd.c
```

and clean up the BODY tags (two occurrences).

note. one could also edit the defaults,

```
| #vi config.h
```

but they're fine. Even INDEX_NAMES eventually points to index.cgi, already.

Compilation

Create the needed groupthttpd user and group,

```
| groupadd www
```

note. otherwise you would get this error doing 'make install',

```
| chgrp: invalid group: 'www'
```

Compile and install,

```
| ./configure
| make clean
| make
| mkdir -p /usr/local/man/man1/
| make install
```

note. if you get this error doing 'make',

```
| httpswd.c:52: error: conflicting types for 'getline'
```

replace 'getline' by 'my_getline' in extras/httpswd.c (two occurrences).

Configuration

Create the web dir and some user,

```
| mkdir -p /var/www/
| useradd -g www -d /var/www/ -s /sbin/nologin thttpd
```

Configure thttpd,

```
| vi /etc/thttpd.conf
```

like,

```
| dir=/var/www
| chroot
| user=thttpd
| logfile=/var/log/thttpd.log
| pidfile=/var/run/thttpd.pid
| vhost
| charset=utf-8
| cgipat=*.cgi
```

Note. other charsets: 8859-1, 8859-15

Create a virtual host,

```
| mkdir /var/www/host.example.net/
```

Note. directory listing is enabled as long the directory has the 'x' permission

Virtual host redirects & tricks

It's clever to make a redirect for:

- your server's hostname,
- your server's IP address,
- the global domain name,

to the main website it is supposed to be hosting, so you will get even more traffic on it. So people looking for your hostname, domain or IP directly will get a clue on your business or what you are doing, and won't fall on some 404 because the virtual host directory doesn't exist.

So create redirects like this,

```
| mkdir example.net/
| cd example.net/
| cp path/to/thttpd/redirect redirect.cgi
| ln -s redirect.cgi index.html
| cat > .redirects <<EOF9
| / http://www.example.net/
| ln -s example.net server_host.example.net
| ln -s example.net IP_ADDRESS
```

Note. Make sure you have got 'cgipath=*.cgi' in your thttpd configuration.

Usage

Start the daemon,

```
| thttpd -C /etc/thttpd.conf
```

enable it at boot time,

```
| cat >> /etc/rc.local <<EOF9
| echo -n starting thttpd...
| /usr/local/sbin/thttpd -C /etc/thttpd.conf && echo done
| EOF9
```

Check the vhost is working. Open your web browser to the URL e.g.,

```
| http: //host.example.net
```

UTF8 encoding

To serve UTF8 content you need several things:

- charset=utf8 in thttpd.conf (otherwise charset="iso-8859-1" is the default),
 - the right http header for CGI scripts [e.g.](#),
print "Content-type: text/plain; charset=utf-8 ";
- then you should also make sure the libraries you are using are compatible with UTF8 e.g. perl [CGI and DBI modules aren't](#).
- or the right file encoding, html or text (this depends on your shell env and text editor compatibility with utf8).

Todo

Configure a minimal chrooted CGI environment,

```
mkdir -p /var/www/bin/  
cp /bin/ksh /var/www/bin/  
cp /bin/cat /var/www/bin/  
ldd /var/www/bin/ksh  
ldd /var/www/bin/cat  
...  
mkdir tmp/  
chmod 777 tmp  
chmod +t tmp  
(cd /; tar cvf - dev/tty) | (cd /var/www; tar xvf -)
```

test it,

```
chroot /var/www /bin/ksh  
cat <<EOF9  
check  
EOF9  
exit
```

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