

NAME

pianod — Multisource music daemon.

SYNOPSIS

```
pianod [-v] [-S] [-p port] [-P httpport] [-s httpsport] [-c clientdir]  
[-d directory] [-n nobodyuser] [-g groups]
```

DESCRIPTION

pianod is a daemon that plays music from multiple online services and local media. **pianod** provides a TCP/IP line-oriented socket interface and a Websockets interface, each allowing multiple clients to connect for status and control. The application protocol (command/response set) is identical between line-oriented and WebSocket connections.

The line-oriented protocol is accessible with `nc(1)` or `telnet(1)`; to port 4445. The included web-based client may be accessed by browsing the HTTP port (for example, `http://localhost:4446`). Line sessions may also be initiated on the HTTP or HTTPS ports via the greeting "HELO pianod".

OPTIONS

- v** Report version and build information, then exit. Flagged once, supplies only pianod version; twice, pianod configuration and library versions; thrice includes details about library configurations.
- S** Shadow system users. Accounts will be created on-demand for those authenticating with their system username and password if they are assigned a valid shell.
- p *port***
The line port, default 4445. When set to 0, the line-oriented port is disabled.
- P *port***
The HTTP port, default 4446 or `-p port + 1`. When set to 0, the HTTP server and Websockets are disabled.
- s *port***
The HTTPS port, default 4447, `-p port + 2`, or `-P port + 1`. When set to 0, or when the required X509 certificate and keys are not present, the HTTPS server and secure websockets are disabled.
- c *clientdir***
Location of files to be served via HTTP(S). The server only serves files (no server-side processing); this is intended to serve a web applet that will then communicate using Websockets.
- d *directory***
Sets the location for pianod configuration and data files.
- n *nobodyuser***
When invoked as root, the user to change to after startup. **pianod** assumes both the user and group id of the specified user. Defaults to nobody.
- g *groups***
When invoked as root, a comma-separated list of supplementary groups to assume after startup. Defaults to the supplementary groups of the nobodyuser (see -n).

ENVIRONMENT

- XDG_CONFIG_HOME** Sets the location of configuration files. Files are stored in a **pianod** directory within this.
- HOME** If **XDG_CONFIG_HOME** is not set, and **pianod** is not running as root, then files are stored in `$HOME/.config/pianod`.

FILES

Configuration file location is set by **XDG_CONFIG_HOME** or **HOME** (see environment, above). If run as root, **pianod** honors **XDG_CONFIG_HOME**, but skips **HOME** and uses **SYSCONFDIR**, which is set at

compile time and is often `/etc` but varies by platform; MacPorts, for example, uses `/opt/local/etc`.

Whichever location is used, **pianod** stores the following configuration files in a **pianod** subdirectory thereof:

<code>startscript</code>	Commands executed with administrator privilege when pianod is launched.
<code>passwd.xml(.gz)</code>	This XML file contains a list of pianod users, their passwords (encrypted), privileges and preferences.
<code>x509-server.pem</code>	The X509 certificate used for HTTPS encryption.
<code>x509-server-key.pem</code>	The X509 key used for HTTPS encryption
<code>source-name.xml(.gz)</code>	Music source data files. Not all sources persist to data files. Some may use compression to reduce data storage; in this case, <code>.gz</code> will be appended.
<code>\$(datadir)/share/pianod/html</code>	Default location of web client files. <code>datadir</code> defaults to <code>/usr/local</code> for tarball installs, or <code>/opt/local</code> for MacPorts, but may vary depending on options set by configure script. Package managers that risk this being wrong should include <code>-c clientdir</code> in launch configuration files to set correct location.
<code>/etc/shells</code>	Read to determine if a user has a valid shell account.

DIAGNOSTICS

To enable logging, use the `-Z` and `-z` flags:

`-Z value`

Enables pianod logging for events indicated by *value*. Logs are sent to standard error, which may be redirected in usual manners. `0xfefd` is a good value; see the code for specific flags.

`-z value`

Like `-Z` but for Football events such as connects, disconnects, socket states and HTTP requests.

Logging preferences may also be changed at run-time via the SET [FOOTBALL] LOGGING FLAGS command.

AUTHOR

pianod was developed by Perette Barella <perette@deviousfish.com> and incorporates components from Lars-Dominik Braun and others. See the COPYING file for full information.

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SEE ALSO

`piano(1)`, `runmix(1)`, `shells(5)`