

## NAME

**wsgw** — WebSocket (RFC 6455) gateway.

## SYNOPSIS

**wsgw** [ **-h1** ] [ **-v** ] [ **-n** *nobodyuser* ] [ **-p** *port* ] *service*

## DESCRIPTION

**wsgw** listens on a port and forwards connections to other services, performing translation to/from WebSocket protocol onto a traditional TCP stream. **wsgw** supports two modes: binary, in which data is passed through unadulterated; and text, for which **wsgw** treats WebSocket packets as lines and vice-versa, converting each CR/LF separated line to a WebSocket frame.

**wsgw** accepts a list of services as parameters. Services are formatted as follows: *service,destination,port,type*

**service** The service name. HTTP clients should specify this as the requested document to establish a connection.

**destination**

Specifies the server to which connections are forwarded. If omitted, the local host is used.

**port** The port to which connections are forwarded. If omitted, the service name is used in a service lookup.

**type** One of: auto, text, binary. If *text*, then text packets received from the client are forwarded with CR/LF appended. Packets from the server are broken into discrete lines by CR, LF, or CR/LF, and sent to the client one line per packet. If omitted, defaults to *auto*. *binary* undergoes no translation; packets are sent in the chunks they are received. *auto* uses binary unless the client's HTTP request GET parameters include "encoding=text".

Field values (except service) are optional but positional.

## OPTIONS

**-h** Logs header of received HTTP requests to stderr.

**-l** Logs HTTP error responses and other goodies to stderr.

**-v** Display version information and exit.

**-n** *nobodyuser*

When invoked as root, the user to change to after startup. Defaults to nobody.

**-p** **-port**

Selects the port **wsgw** operates on. By default, **wsgw** operates on port 8000.

**-v** Outputs the **wsgw** version and quits.

## EXAMPLES

**wsgw -p 4446 pianod,,4445**

**wsgw** will forward requests for "/pianod" received on port 4446 to port 4445 on the local host. It will operate in binary mode unless the request query string indicates otherwise.

**wsgw pianod,musicsrv,4445 pop3,mailsrv,,binary**

**wsgw** will gateway requests on port 8000 (the default) for either "/pianod" to musicsrv at port 4445 in text mode, or for "/pop3" to mailsrv also in binary mode. "/pop3" requests will probably use port 110, the well-know port listed in /etc/services.

## FILES

None.

## SEE ALSO

[services\(5\)](#)

**BUGS**

**wsgw** is a forking server. Whether this is a bug is a matter of perspective.

**wsgw** uses some arrays and fixed-size buffers in HTTP header parsing. It will drop the connection if the pre-defined limits are exceeded.

**wsgw** does not support TLS (transport layer security).

**wsgw** does not support the pre-RFC 6455 protocols. This is not a bug, even if you think it is.