Rocky Enterprise Linux 9.2 Manual Pages on command 'libvirtd.8'

C:\>man libvirtd.8

LIBVIRTD(8) Virtualization Support LIBVIRTD(8)

NAME

libvirtd - libvirt management daemon

SYNOPSIS

libvirtd [OPTION]...

DESCRIPTION

The libvirtd program is the server side daemon component of the libvirt virtualiza?

tion management system.

This daemon runs on host servers and performs required management tasks for virtu?

alized guests. This includes activities such as starting, stopping and migrating

guests between host servers, configuring and manipulating networking, and managing

storage for use by guests.

The libvirt client libraries and utilities connect to this daemon to issue tasks

and collect information about the configuration and resources of the host system

and guests.

By default, the libvirtd daemon listens for requests on a local Unix domain socket.

Using the -l | --listen command line option, the libvirtd daemon can be instructed

to additionally listen on a TCP/IP socket. The TCP/IP socket to use is defined in

the libvirtd configuration file.

Restarting libvirtd does not impact running guests. Guests continue to operate and

will be picked up automatically if their XML configuration has been defined. Any

guests whose XML configuration has not been defined will be lost from the configu?

ration.

SYSTEM SOCKET ACTIVATION

The libvirtd daemon is capable of starting in two modes.

In the traditional mode, it will create and listen on UNIX sockets itself. If the --listen parameter is given, it will also listen on TCP/IP socket(s), according to the listen_tcp and listen_tls options in /etc/libvirt/libvirtd.conf

In socket activation mode, it will rely on systemd to create and listen on the UNIX, and optionally TCP/IP, sockets and pass them as pre-opened file descriptors.

In this mode, it is not permitted to pass the --listen parameter, and most of the socket related config options in /etc/libvirt/libvirtd.conf will no longer have any effect. To enable TCP or TLS sockets use either

```
$ systemctl start libvirtd-tls.socket
```

Or

```
$ systemctl start libvirtd-tcp.socket
```

Socket activation mode is generally the default when running on a host OS that uses systemd. To revert to the traditional mode, all the socket unit files must be masked:

```
$ systemctl mask libvirtd.socket libvirtd-ro.socket \
    libvirtd-admin.socket libvirtd-tls.socket libvirtd-tcp.socket
```

OPTIONS

-h, --help

Display command line help usage then exit.

-d, --daemon

Run as a daemon & write PID file.

-f, --config *FILE*

Use this configuration file, overriding the default value.

-l, --listen

Listen for TCP/IP connections. This should not be set if using systemd socket acti? vation. Instead activate the libvirtd-tls.socket or libvirtd-tcp.socket unit files.

-p, --pid-file *FILE*

Use this name for the PID file, overriding the default value.

-t, --timeout *SECONDS*

Exit after timeout period (in seconds), provided there are neither any client con?

nections nor any running domains.

-v, --verbose

Enable output of verbose messages.

--version

Display version information then exit.

SIGNALS

On receipt of SIGHUP libvirtd will reload its configuration.

FILES

When run as root

? /etc/libvirt/libvirtd.conf

The default configuration file used by libvirtd, unless overridden on the command line using the -f | --config option.

? /run/libvirt/libvirt-sock

? /run/libvirt/libvirt-sock-ro

The sockets libvirtd will use.

? /etc/pki/CA/cacert.pem

The TLS Certificate Authority certificate libvirtd will use.

? /etc/pki/libvirt/servercert.pem

The TLS Server certificate libvirtd will use.

? /etc/pki/libvirt/private/serverkey.pem

The TLS Server private key libvirtd will use.

? /run/libvirtd.pid

The PID file to use, unless overridden by the -p | --pid-file option.

When run as non-root

? $XDG_CONFIG_HOME/libvirt/libvirtd.conf

The default configuration file used by libvirtd, unless overridden on the command line using the -f``|--config`` option.

? $XDG_RUNTIME_DIR/libvirt/libvirt-sock

The socket libvirtd will use.

? $HOME/.pki/libvirt/cacert.pem

The TLS Certificate Authority certificate libvirtd will use.

? $HOME/.pki/libvirt/servercert.pem

The TLS Server certificate libvirtd will use.

? $HOME/.pki/libvirt/serverkey.pem

The TLS Server private key libvirtd will use.

? $XDG_RUNTIME_DIR/libvirt/libvirtd.pid

The PID file to use, unless overridden by the -p``|--pid-file`` option.

If $XDG_CONFIG_HOME is not set in your environment, libvirtd will use $HOME/.config

If $XDG_RUNTIME_DIR is not set in your environment, libvirtd will use $HOME/.cache

EXAMPLES

To retrieve the version of libvirtd:

libvirtd --version

libvirtd (libvirt) 0.8.2

To start libvirtd, instructing it to daemonize and create a PID file:

libvirtd -d

ls -la /run/libvirtd.pid

-rw-r--r-- 1 root root 6 Jul 9 02:40 /run/libvirtd.pid

BUGS

Please report all bugs you discover. This should be done via either:

1. the mailing list

https://libvirt.org/contact.html

2. the bug tracker

https://libvirt.org/bugs.html

Alternatively, you may report bugs to your software distributor / vendor.

AUTHORS

Please refer to the AUTHORS file distributed with libvirt.

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SEE ALSO

virsh(1), virt-install(1), virt-xml-validate(1), virt-top(1), virt-df(1),

https://www.libvirt.org/