

NAME

virt-viewer – display the graphical console for a virtual machine

SYNOPSIS

virt-viewer [OPTIONS] [ID|UUID|DOMAIN-NAME]

DESCRIPTION

virt-viewer is a minimal tool for displaying the graphical console of a virtual machine. The console is accessed using the VNC or SPICE protocol. The guest can be referred to based on its name, ID, or UUID. If the guest is not already running, then the viewer can be told to wait until it starts before attempting to connect to the console. The viewer can connect to remote hosts to lookup the console information and then also connect to the remote console using the same network transport.

OPTIONS

The following options are accepted when running **virt-viewer**:

- h, --help
Display command line help summary
- V, --version
Display program version number
- v, --verbose
Display information about the connection
- c URI, --connect=URI
Specify the hypervisor connection URI
- w, --wait
Wait for the domain to start up before attempting to connect to the console
- r, --reconnect
Automatically reconnect to the domain if it shuts down and restarts
- z PCT, --zoom=PCT
Zoom level of the display window in percentage. Range 10–400.
- d, --direct
Do not attempt to tunnel the console over SSH, even if the main connection URI used SSH.
- a, --attach
Instead of making a direct TCP/UNIX socket connection to the remote display, ask libvirt to provide a pre-connected socket for the display. This avoids the need to authenticate with the remote display server directly. This option will only work when connecting to a guest that is running on the same host as the virt-viewer program. If attaching to the guest via libvirt fails, virt-viewer will automatically fallback to trying a regular direct TCP/UNIX socket connection.
- f, --full-screen
Start with the window maximised to fullscreen

If supported, the remote display will be reconfigured to match the physical client monitor configuration, by enabling or disabling extra monitors as necessary. This is currently implemented by the Spice backend only.

To specify which client monitors are used in fullscreen mode, see the CONFIGURATION section below.
- debug
Print debugging information
- H HOTKEYS, --hotkeys HOTKEYS
Set global hotkey bindings. By default, keyboard shortcuts only work when the guest display widget does not have focus. Any actions specified in **HOTKEYS** will be effective even when the guest display widget has input focus. The format for **HOTKEYS** is `<action1>=<key1>[+<key2>][,<action2>=<key3>[+<key4>]]`. Key-names are case-insensitive. Valid

actions are: `toggle-fullscreen`, `release-cursor`, `secure-attention`, `smartcard-insert` and `smartcard-remove`. The `secure-attention` action sends a secure attention sequence (Ctrl+Alt+Del) to the guest. Examples:

```
--hotkeys=toggle-fullscreen=shift+f11,release-cursor=shift+f12
```

```
--hotkeys=release-cursor=ctrl+alt
```

Note that hotkeys for which no binding is given are disabled. Although the hotkeys specified here are handled by the client, it is still possible to send these key combinations to the guest via a menu item.

`-k, --kiosk`

Start in kiosk mode. In this mode, the application will start in fullscreen with minimal UI. It will prevent the user from quitting or performing any interaction outside of usage of the remote desktop session.

Note that it can't offer a complete secure solution by itself. Your kiosk system must have additional configuration and security settings to lock down the OS. In particular, you must configure or disable the window manager, limit the session capabilities, use some restart/watchdog mechanism, disable VT switching etc.

`--kiosk-quit <never|on-disconnect>`

By default, when kiosk mode is enabled, `virt-viewer` will remain open when the connection to the remote server is terminated. By setting `kiosk-quit` option to "on-disconnect" value, `virt-viewer` will quit instead. Please note that `--reconnect` takes precedence over this option, and will attempt to do a reconnection before it quits.

`--id, --uuid, --domain-name`

Connect to the virtual machine by its id, uuid or name. These options are mutual exclusive. For example the following command may sometimes connect to a virtual machine with the id 2 or with the name 2 (depending on the number of running machines):

```
virt-viewer 2
```

To always connect to the virtual machine with the name "2" use the "`--domain-name`" option:

```
virt-viewer --domain-name 2
```

CONFIGURATION

A small number of configuration options can be controlled by editing the settings file located in the user configuration directory:

```
<USER-CONFIG-DIR>/virt-viewer/settings
```

This file is a text file in INI format, with application options in the `[virt-viewer]` group and per-guest options in a group identified by the guest's UUID. The application options should not be edited manually. There is also a special `[fallback]` group which specifies options for all guests that don't have an explicit group.

For each guest, the initial fullscreen monitor configuration can be specified by using the **monitor-mapping** key. This configuration only takes effect when the `-f/--full-screen` option is specified.

The value of this key is a list of mappings between a guest display and a client monitor. Each mapping is separated by a semicolon character, and the mappings have the format `<GUEST-DISPLAY-ID>:<CLIENT-MONITOR-ID>`.

For example, to map guest displays 1 and 2 to client monitors 2 and 3 for the guest with a UUID of `e4591275-d9d3-4a44-a18b-ef2fbc8ac3e2`, use:

```
[e4591275-d9d3-4a44-a18b-ef2fbc8ac3e2]
monitor-mapping=1:2;2:3
```

The `monitor-mapping` must contain ids of all displays from 1 to the last desired display id, e.g. "`monitor-mapping=3:3`" is invalid because mappings for displays 1 and 2 are not specified.

EXAMPLES

To connect to the guest called 'demo' running under Xen

```
virt-viewer demo
```

To use GUI for connecting to a guest running under QEMU

```
virt-viewer --connect qemu:///system
```

To connect to the guest with ID 7 running under QEMU

```
virt-viewer --connect qemu:///system 7
```

To wait for the guest with UUID 66ab33c0-6919-a3f7-e659-16c82d248521 to startup and then connect, also reconnecting upon restart of VM

```
virt-viewer --reconnect --wait 66ab33c0-6919-a3f7-e659-16c82d248521
```

To connect to a remote console using TLS

```
virt-viewer --connect xen://example.org/ demo
```

To connect to a remote host using SSH, lookup the guest config and then make a tunnelled connection of the console

```
virt-viewer --connect qemu+ssh://root@example.org/system demo
```

When using a SSH tunnel to connect to a SPICE console, it's recommended to have ssh-agent running to avoid getting multiple authentication prompts.

To connect to a remote host using SSH, lookup the guest config and then make a direct non-tunnelled connection of the console

```
virt-viewer --direct --connect xen+ssh://root@example.org/ demo
```

AUTHOR

Written by Daniel P. Berrange, based on the GTK-VNC example program gyncviewer.

BUGS

Report bugs to the mailing list
<http://www.redhat.com/mailman/listinfo/virt-tools-list>

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SEE ALSO

`virsh(1)`, `virt-manager(1)`, `spice-client(1)`, the project website
<http://virt-manager.org>