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## Rocky Enterprise Linux 9.2 Manual Pages on command 'remote-viewer.1'

**$ man remote-viewer.1**

Remote-Viewer(1)        Virtualization Support        Remote-Viewer(1)

NAME

    remote-viewer - a simple remote desktop client

SYNOPSIS

    remote-viewer [OPTIONS] -- [URI]

DESCRIPTION

    remote-viewer is a simple remote display client. The supported

    protocols are SPICE and VNC.

    Starting remote-viewer without URI will open a simple dialog with an

    entry and a list of previously successfully accessed URI.

    The URI can also point to a connection settings file, see the

    CONNECTION FILE section for a description of the format.

    If URI is '-', then remote-viewer will read the standard input as a

    connection settings file and attempt to connect using it.

    In some circumstances the viewer may need to grab the mouse pointer.

    The default key sequence for releasing the grab is "Ctrl_L"+"Alt_L",

    however, this can be overridden using the "--hotkeys" argument

    documented below.

## OPTIONS

The following options are accepted when running "remote-viewer":

-h, --help

   Display command line help summary

-V, --version

   Display program version number

-v, --verbose

   Display information about the connection

-z PCT, --zoom=PCT

   Zoom level of the display window in percentage. Range 10-400.

-f, --full-screen

   Start with the windows maximized 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 and can be disabled by the "--auto-resize"

   arguemnt.

   To specify which client monitors are used in fullscreen mode, see

   the CONFIGURATION section below.

--auto-resize <always|never>

   Controls whether it is permitted to attempt to resize the remote

   framebuffer to match the local window size. This currently defaults

   to on, but note that not all servers will support this.

-t TITLE, --title TITLE

   Set the window title to TITLE

-s, --shared

   Permitted a shared session with multiple clients

--cursor auto|local

   Control how the mouse cursor is rendered. "auto" is the default

   behaviour, which will honour the behaviour requested by the remote

   server. This may involve the server remote rendering the cursor

   into the framebuffer, or sending the cursor details to the client

   to render.  "local" overrides this default to request that the

local desktop cursor is always rendered regardless of what the

server requests. The latter is rarely needed, but can be used if

the server has a bad configuration that results in its own cursor

being hidden.

--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, zoom-in, zoom-out, zoom-reset, secure-attention,

usb-device-reset, 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, --keymap

Remap and/or block supplied keypresses to the host. All key

identifiers are case-sensitive and follow the naming convention as

defined in gdkkeysyms.h without the GDK_KEY_ prefix.

Running the application with --debug will display keypress symbols

in the following way:

"Key pressed was keycode='0x63', gdk_keyname='c'"

"Key pressed was keycode='0xffeb', gdk_keyname='Super_L'"

The format for supplying a keymap is:

<srcKeySym1>=[<destKeySym1>][+<destKeySym2>][,<srckeySym2>=[<destKeySym1]

To block a keypress simply assign an empty parameter to the

srcKeySym.

Example:

  --keymap=Super_L=,Alt_L=,1=Shift_L+F1,2=Shift_L+F2

This will block the Super_L (typically Windows Key) and ALT_L

keypresses and remap key 1 to Shift F1, 2 to Shift F2.

-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.

HOTKEY

A key binding combination is described by a series of key strings

separated by '+' that must be pressed together in order to activate the

associated action.

It must be composed of modifiers (shift, ctrl or alt) and a non-

modifier key. For example, "shift+f11".

CONNECTION FILE

remote-viewer connection file is of INI file format, with a mandatory

[virt-viewer] group and "type" key.

Example

Opening a file with the following content will start remote-viewer in

fullscreen and connect to the host "betsiboka" using the SPICE

```
protocol:

 [virt-viewer]

 type=spice

 host=betsiboka

 port=5900

 fullscreen=1
```

Key list

   "version" (string)

      If remote-viewer version number isn't greater or equal to the

      required version, an error is raised with the expected version.

      The version format accepted is a list of integers separated by '.'.

      It can be followed by a dash '-' and an additional build number

      with the same format.

      Version comparison is done by comparing each integer from the list

      one by one. If any of the component is not a number, the version

      comparison will fail and consider that the 2 versions are

      considered to be the same.

   "versions" (osid:version list)

      This is a list of osid:version couples separated by ';'. osid is an

      arbitrary string, version is a version number in the same format as

      in the 'version' field. A given couple indicates that remote-viewer

      builds matching the given 'osid' (fedora22, debian7, ...) must be

      at least version 'version'. For consistency, it's recommended to

      use libosinfo OS shortids as the osid.

   "newer-version-url" (string)

      If specified, this field is an URL which will be displayed to the

      user when a version check fails.

   "type" (string, mandatory)

      The session type, either "spice", "vnc" or "ovirt".

   "unix-path" (string)

      The server to connect to, using a Unix socket path. (supported with

      spice, since 8.0)

      This option is incompatible with "host", "port" and "tls-port".

"host" (string)

    The server host to connect to.

"port" (integer)

    The server port to connect to.

"tls-port" (integer)

    The server TLS/SSL port to connect to.

"username" (string)

    The username for the session authentication.

"password" (string)

    The password for the session authentication.

"disable-channels" (string list)

    The list of session channels to disable.

    The current SPICE channels are: main, display, inputs, cursor,

    playback, record, smartcard, usbredir.

"tls-ciphers" (string)

    Set the cipher list to use for the secure connection, in textual

    OpenSSL cipher list format. (see ciphers(1))

"title" (string)

    String to present in the window title.

"fullscreen" (boolean)

    Opens the client windows in fullscreen.

"ca" (string)

    CA certificate in PEM format (using "\n" to separate the lines).

    This will be used to verify the SSL certificate used for SPICE TLS

    sessions.

"host-subject" (string)

    Verify the certificate subject matches with the given subject.

"toggle-fullscreen" (hotkey string)

    Key binding for entering and leaving fullscreen mode. (see HOTKEY

    for description of expected string)

"release-cursor" (hotkey string)

    Key binding for releasing cursor grab. (see HOTKEY for description

    of expected string)

"zoom-in" (hotkey string)

    Key binding for zooming in and enlarging client window size. (see

    HOTKEY for description of expected string)

"zoom-out" (hotkey string)

    Key binding for zooming out and reducing client window size. (see

    HOTKEY for description of expected string)

"zoom-reset" (hotkey string)

    Key binding for reseting zoom and client window size. (see HOTKEY

    for description of expected string)

"smartcard-insert" (hotkey string)

    Key binding for inserting emulated smartcard. (see HOTKEY for

    description of expected string)

"smartcard-remove" (hotkey string)

    Key binding for removing emulated smartcard. (see HOTKEY for

    description of expected string)

"color-depth" (integer)

    Set the color depth of the guest display (16 or 32).

"disable-effects" (string list)

    A list of desktop effects to disable in the remote guest.

    The effects that can be disabled with SPICE are: wallpaper, font-

    smooth, animation or all.

"enable-smartcard" (boolean)

    Set to 1 to enable client smartcard redirection.

"enable-usbredir" (boolean)

    Set to 1 to enable client USB device redirection.

"enable-usb-autoshare" (boolean)

    Set to 1 to enable client USB devices auto-sharing.

"usb-filter" (string)

    Set a string specifying a filter to use to determine which USB

    devices to autoconnect when plugged in, a filter consists of one or

    more rules. Where each rule has the form of:

    "class,vendor,product,version,allow"

    Use -1 for class/vendor/product/version to accept any value.

And the rules themselves are concatenated like this:

"rule1|rule2|rule3"

"secure-channels" (string list)

The list of session channels to secure.

The current SPICE channels are: main, display, inputs, cursor,

playback, record, smartcard, usbredir.

"delete-this-file" (boolean)

Set to 1 for the client to remove this connection file (if it

can't, it will fail silently)

"proxy" (string)

A proxy URL to tunnel the connection through.

At the time of writing this documentation, the only supported proxy

method with Spice is HTTP CONNECT.

For example, to tunnel connection through foobar host HTTP proxy on

port 8080, use the value "http://foobar:8080".

oVirt Support

The connection file can also carry some oVirt-specific options when

oVirt support is compiled in. These options are used to interact with

oVirt REST API.  This is currently only used in order to show a menu

allowing to change the CD image being used by the virtual machine from

remote-viewer user interface.  These options go in an optional [ovirt]

group.

"host" (string, mandatory)

The oVirt instance to connect to. This corresponds to the hostname

one would connect to access the oVirt user or admin portal.

"vm-guid" (string, mandatory)

GUID of the oVirt virtual machine to connect to.

"jsessionid" (string)

Value to set the 'jsessionid' cookie to. With oVirt 3.6, setting

this authentication cookie to a valid value will allow to interact

with the oVirt REST API without being asked for credentials.

"sso-token" (string)

Value to set the 'Authorization' header to. With oVirt 4.0 or

newer, setting this authentication header to a valid value will

allow to interact with the oVirt REST API without being asked for

credentials.

"ca" (string)

CA certificate in PEM format (using "\n" to separate the lines).

This will be used to validate the certificate used for the oVirt

REST https session remote-viewer will establish.

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.

Configuration key share-clipboard contains a boolean value. If it's

"true", then clipboard is shared with guests if clipboard sharing is

supported by used protocol.

## EXAMPLES

To connect to SPICE server on host "makai" with port 5900

    remote-viewer spice://makai:5900

To connect to VNC server on host "tsingy" with port 5900

    remote-viewer vnc://tsingy:5900

To connect to a virtual machine named "toliara" on an oVirt server at

example.org

    remote-viewer ovirt://[username@]example.org/toliara

## BUGS

Report bugs to https://gitlab.com/virt-viewer/virt-viewer/-/issues

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## SEE ALSO

"virt-viewer(1)", "spice-client(1)", the project website

"http://gitlab.com/virt-viewer/virt-viewer"

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