

NAME

xfreerdp - FreeRDP X11 client

SYNOPSIS

xfreerdp [file] [options] [/v:server[:port]]

DESCRIPTION

xfreerdp is an X11 Remote Desktop Protocol (RDP) client which is part of the FreeRDP project. An RDP server is built-in to many editions of Windows. Alternative servers included xrdp and VRDP (VirtualBox).

OPTIONS

/a:addin[,options], **/addin:addin[,options]**

Addin

/action-script:file-name

Action script (default:~/config/freerdp/action.sh)

/admin, **/console**

Admin (or console) session

+aero

desktop composition (default:off)

/app:path or *||alias*

Remote application program

/app-cmd:parameters

Remote application command-line parameters

/app-file:file-name

File to open with remote application

/app-guid:app-guid

Remote application GUID

/app-icon:icon-path

Remote application icon for user interface

/app-name:app-name

Remote application name for user interface

/app-workdir:*workspace path*

Remote application workspace path

/assistance:*password*

Remote assistance password

/auto-request-control:

Automatically request remote assistance input control

+async-channels

Asynchronous channels (experimental) (default:off)

+async-input

Asynchronous input (default:off)

+async-update

Asynchronous update (default:off)

/audio-mode:*mode*

Audio output mode

+auth-only

Authenticate only (default:off)

-authentication

Authentication (experimental) (default:on)

+auto-reconnect

Automatic reconnection (default:off)

/auto-reconnect-max-retries:*retries*

Automatic reconnection maximum retries, 0 for unlimited [0,1000]

+bitmap-cache

bitmap cache (default:off)

/bpp:*depth*

Session bpp (color depth) (default:16)

/buildconfig

Print the build configuration

/cert:[deny,ignore,name:*name*,tofu,fingerprint:*hash:hash as hex*[,fingerprint:*hash:another hash*]]

Certificate accept options. Use with care! * deny ... Automatically abort connection if the certificate does not match, no user interaction. * ignore ... Ignore the certificate checks altogether (overrules all other options) * name ... Use the alternate <name> instead of the certificate subject to match locally stored certificates * tofu ... Accept certificate unconditionally on first connect and deny on subsequent connections if the certificate does not match * fingerprints ... A list of certificate hashes that are accepted unconditionally for a connection

/cert-deny

[deprecated, use /cert:deny] Automatically abort connection for any certificate that can not be validated.

/cert-ignore

[deprecated, use /cert:ignore] Ignore certificate

/cert-name:*name*

[deprecated, use /cert:name:<name>] Certificate name

/cert-tofu

[deprecated, use /cert:tofu] Automatically accept certificate on first connect

/client-build-number:*number*

Client Build Number sent to server (influences smartcard behaviour, see [MS-RDPESC])

/client-hostname:*name*

Client Hostname to send to server

/clipboard:[use-selection:*atom*]

Redirect clipboard. * use-selection:<atom> ... (X11) Specify which X selection to access. Default is CLIPBOARD. PRIMARY is the X-style middle-click selection. (default:on)

/codec-cache:[rfx|nsc|jpeg]

Bitmap codec cache

-compression, -z

compression (default:on)

/compression-level:*level*

Compression level (0,1,2)

+credentials-delegation

credentials delegation (default:off)

/d:*domain*

Domain

-decorations

Window decorations (default:on)

/disp

Display control

/drive:*name,path*

Redirect directory <path> as named share <name>. Hotplug support is enabled with `/drive:hotplug,*`. This argument provides the same function as "Drives that I plug in later" option in MSTSC.

+drives

Redirect all mount points as shares (default:off)

/dvc:*channel[,options]*

Dynamic virtual channel

/dynamic-resolution

Send resolution updates when the window is resized

/echo, /echo

Echo channel

-encryption

Encryption (experimental) (default:on)

/encryption-methods:*[40,][56,][128,][FIPS]*

RDP standard security encryption methods

/f

Fullscreen mode (<Ctrl>+<Alt>+<Enter> toggles fullscreen)

-fast-path

fast-path input/output (default:on)

+fipsmode

FIPS mode (default:off)

/floatbar[:sticky:[on|off],default:[visible|hidden],show:[always|fullscreen|window]]

floatbar is disabled by default (when enabled defaults to sticky in fullscreen mode)

-fonts

smooth fonts (ClearType) (default:on)

/frame-ack:*number*

Number of frame acknowledgement

/from-stdin[:force]

Read credentials from stdin. With <force> the prompt is done before connection, otherwise on server request.

/g:gateway[:*port*]

Gateway Hostname

/gateway-usage-method:[direct|detect], **/gum**:[direct|detect]

Gateway usage method

/gd:*domain*

Gateway domain

/gdi:sw|hw

GDI rendering

/geometry

Geometry tracking channel

+gestures

Consume multitouch input locally (default:off)

/gfx[:RFX]

RDP8 graphics pipeline

+gfx-progressive

RDP8 graphics pipeline using progressive codec (default:off)

+gfx-small-cache

RDP8 graphics pipeline using small cache mode (default:off)

+gfx-thin-client

RDP8 graphics pipeline using thin client mode (default:off)

+glyph-cache

Glyph cache (experimental) (default:off)

/gp:password

Gateway password

-grab-keyboard

Grab keyboard (default:on)

-grab-mouse

Grab mouse (default:on)

/gt:[rpc|http[,no-websockets]]|auto[,no-websockets]]

Gateway transport type

/gu:[[domain\]user|user[@domain]]

Gateway username

/gat:access token

Gateway Access Token

/h:height

Height (default:768)

-heartbeat

Support heartbeat PDUs (default:on)

/help, /?

Print help

+home-drive

Redirect user home as share (default:off)

/ipv6, /6

Prefer IPv6 AAA record over IPv4 A record

/kbd:Oxid or name

Keyboard layout

/kbd-lang:Oxid

Keyboard active language identifier

/kbd-fn-key:value

Function key value

/kbd-list

List keyboard layouts

/kbd-lang-list

List keyboard languages

/kbd-remap:List of *key=value*,... pairs to remap scancodes

Keyboard scancode remapping

/kbd-subtype:id

Keyboard subtype

/kbd-type:id

Keyboard type

/load-balance-info:info-string

Load balance info

/log-filters:tag:level[,tag:level[,...]]

Set logger filters, see wLog(7) for details

/log-level:[OFF|FATAL|ERROR|WARN|INFO|DEBUG|TRACE]

Set the default log level, see wLog(7) for details

/max-fast-path-size:size

Specify maximum fast-path update size

/max-loop-time:time

Specify maximum time in milliseconds spend treating packets

+menu-anim

menu animations (default:off)

/microphone[:[sys:sys,][dev:dev,][format:format,][rate:rate,][channel:channel]],**/mic[:[sys:sys,][dev:dev,][format:format,][rate:rate,][channel:channel]]**

Audio input (microphone)

/monitor-list

List detected monitors

/monitors:id[,id[,...]]

Select monitors to use

-mouse-motion

Send mouse motion (default:on)

/multimon[:force]

Use multiple monitors

+multitouch

Redirect multitouch input (default:off)

+multitransport

Support multitransport protocol (default:off)

-nego

protocol security negotiation (default:on)

/network:[modem|broadband|broadband-low|broadband-high|wan|lan|auto]

Network connection type

/nsc, /nscodc

NSCodec support

+offscreen-cache

offscreen bitmap cache (default:off)

/orientation:*[0|90|180|270]*

Orientation of display in degrees

+old-license

Use the old license workflow (no CAL and hwId set to 0) (default:off)

/p:*password*

Password

/parallel:*[name[,path]]*

Redirect parallel device

/parent-window:*window-id*

Parent window id

+password-is-pin

Use smart card authentication with password as smart card PIN (default:off)

/pcb:*blob*

Preconnection Blob

/pcid:*id*

Preconnection Id

/pheight:*height*

Physical height of display (in millimeters)

/play-rfx:*pcap-file*

Replay rfx pcap file

/port:*number*

Server port

-suppress-output

suppress output when minimized (default:on)

+print-reconnect-cookie

Print base64 reconnect cookie after connecting (default:off)

/printer:*[name[,driver]]*

Redirect printer device

/proxy:*[proto://][user:password@]host:port*

Proxy settings: override env. var (see also environment variable below). Protocol "socks5" should be given explicitly where "http" is default.

/pth:*password-hash, /pass-the-hash:password-hash*

Pass the hash (restricted admin mode)

/pwidth:*width*

Physical width of display (in millimeters)

/rdp2tcp:*executable path[:arg...]*

TCP redirection

/reconnect-cookie:*base64-cookie*

Pass base64 reconnect cookie to the connection

/redirect-prefer:*FQDN/IP/NETBIOS,[...]*

Override the preferred redirection order

/relax-order-checks, /relax-order-checks

Do not check if a RDP order was announced during capability exchange, only use when connecting to a buggy server

/restricted-admin, /restrictedAdmin

Restricted admin mode

/rfx

RemoteFX

/rfx-mode:*[image|video]*

RemoteFX mode

/scale:*[100|140|180]*

Scaling factor of the display (default:100)

/scale-desktop:*percentage*

Scaling factor for desktop applications (value between 100 and 500) (default:100)

/scale-device:100|140|180

Scaling factor for app store applications (default:100)

/sec:[rdp|tls|nla|ext]

Force specific protocol security

+sec-ext

NLA extended protocol security (default:off)

-sec-nla

NLA protocol security (default:on)

-sec-rdp

RDP protocol security (default:on)

-sec-tls

TLS protocol security (default:on)

/serial[:*name*[,*path*[,*driver*[,*permissive*]]]], **/tty**[:*name*[,*path*[,*driver*[,*permissive*]]]]

Redirect serial device

/shell:*shell*

Alternate shell

/shell-dir:*dir*

Shell working directory

/size:*widthxheight* or *percent%*[*wh*]

Screen size (default:1024x768)

/smart-sizing[:*widthxheight*]

Scale remote desktop to window size

/smartcard[:*str*[,*str*...]]

Redirect the smartcard devices containing any of the <str> in their names.

/smartcard-logon

Activates Smartcard Logon authentication. (EXPERIMENTAL: NLA not supported)

/sound[:*sys:sys*,][*dev:dev*,][*format:format*,][*rate:rate*,][*channel:channel*,][*latency:latency*,][*quality:quality*],

/audio[:*sys:sys*,][*dev:dev*,][*format:format*,][*rate:rate*,][*channel:channel*,][*latency:latency*,][*quality:quality*]]
Audio output (sound)

/span
Span screen over multiple monitors

/spn-class:*service-class*
SPN authentication service class

/ssh-agent, /ssh-agent
SSH Agent forwarding channel

/t:title, /title:*title*
Window title

-themes
themes (default:on)

/timeout:*time in ms*, **/timeout**:*time in ms*
Advanced setting for high latency links: Adjust connection timeout, use if you encounter timeout failures with your connection (default:9000)

/tls-ciphers:*[netmon|ma|ciphers]*
Allowed TLS ciphers

/tls-seclevel:*level*
TLS security level - defaults to 1 (default:1)

+enforce-tlsv1_2
Force use of TLS1.2 for connection. Some servers have a buggy TLS version negotiation and might fail without this (default:off)

-toggle-fullscreen
Alt+Ctrl+Enter to toggle fullscreen (default:on)

/tune:*setting:value,setting:value*
[experimental] directly manipulate freerdp settings, use with extreme caution! (default:)

/tune-list
Print options allowed for /tune

/u:*[[domain\]user|user[@domain]]*

Username

+unmap-buttons

Let server see real physical pointer button (default:off)

/v:*server[:port]*

Server hostname

/vc:*channel[,options]*

Static virtual channel

/version

Print version

/video

Video optimized remoting channel

/vmconnect:*vmid]*

Hyper-V console (use port 2179, disable negotiation)

/w:*width*

Width (default:1024)

-wallpaper

wallpaper (default:on)

+window-drag

full window drag (default:off)

/window-position:*xposxypos*

window position

/wm-class:*class-name*

Set the WM_CLASS hint for the window instance

/workarea

Use available work area

ENVIRONMENT VARIABLES

wlog environment variable

xfreerdp uses wLog as its log facility, you can refer to the corresponding man page (wlog(7)) for more informations. Arguments passed via the */log-level* or */log-filters* have precedence over the environment variables.

EXAMPLES

xfreerdp connection.rdp /p:Pwd123! /f

Connect in fullscreen mode using a stored configuration *connection.rdp* and the password *Pwd123!*

xfreerdp /u:USER /size:50%h /v:rdp.contoso.com

Connect to host *rdp.contoso.com* with user *USER* and a size of *50 percent of the height*. If width (w) is set instead of height (h) like */size:50%w*. 50 percent of the width is used.

xfreerdp /u:CONTOSO\JohnDoe /p:Pwd123! /v:rdp.contoso.com

Connect to host *rdp.contoso.com* with user *CONTOSO\JohnDoe* and password *Pwd123!*

xfreerdp /u:JohnDoe /p:Pwd123! /w:1366 /h:768 /v:192.168.1.100:4489

Connect to host *192.168.1.100* on port *4489* with user *JohnDoe*, password *Pwd123!*. The screen width is set to *1366* and the height to *768*

xfreerdp /u:JohnDoe /p:Pwd123! /vmconnect:C824F53E-95D2-46C6-9A18-23A5BB403532 /v:192.168.1.100

Establish a connection to host *192.168.1.100* with user *JohnDoe*, password *Pwd123!* and connect to Hyper-V console (use port 2179, disable negotiation) with VMID *C824F53E-95D2-46C6-9A18-23A5BB403532*

+clipboard

Activate clipboard redirection

/drive:home,/home/user

Activate drive redirection of */home/user* as home drive

/smartcard:<device>

Activate smartcard redirection for device *device*

/printer:<device>,<driver>

Activate printer redirection for printer *device* using driver *driver*

/serial:<device>

Activate serial port redirection for port *device*

/parallel:<device>

Activate parallel port redirection for port *device*

/sound:sys:alsa

Activate audio output redirection using device *sys:alsa*

/microphone:sys:alsa

Activate audio input redirection using device *sys:alsa*

/multimedia:sys:alsa

Activate multimedia redirection using device *sys:alsa*

/usb:id,dev:054c:0268

Activate USB device redirection for the device identified by *054c:0268*

LINKS

<http://www.freerdp.com/>

AUTHOR

The FreeRDP Team