Rasmtech / KasmVNC Public							
<> Code	O Issues 12	1 Pull requests 1	Actions		₩ Wiki	! Security	✓ Insights

h	master -	Go to	file Code -	About
	Matthew McClaskey M	Merge branch 'bugfix/KASM-2482_l 5 da	ays ago 🖰 576	Modern VNC Server and client, web based and secure
	.ci	Resolve KASM-2301 "Feature/ upload debu	2 months ago	Readme
	builder	OpenSuse: fix testing image by installing de	11 days ago	
	centos	Resolve KASM-1883 "Feature/ x proxy"	16 days ago	18 watching
	cmake	Correct spelling of License file	12 months ago	양 105 forks
	common	Use 64-bit var for the served file size	12 days ago	
	contrib	Correct spelling of License file	12 months ago	Releases
	debian	Resolve KASM-1883 "Feature/ x proxy"	16 days ago	♡ 3 tags
	doc	Document kasm protocol	last month	
	docker	Update README.md	2 years ago	Packages
	kasmweb @ 6c708d8	update novnc ref	18 days ago	No packages published
	opensuse	Resolve KASM-1883 "Feature/ x proxy"	16 days ago	
	oracle	Resolve KASM-1883 "Feature/ x proxy"	16 days ago	Contributors 26
	release	Resolve KASM-1883 "Feature/ x proxy"	16 days ago	
	tests	Initial commit	2 years ago	
	unix	Resolve KASM-1883 "Feature/ x proxy"	16 days ago	+ 15 contributors
	win	Add support for notifying clients about poin	13 months ago	
	.gitignore	Resolve KASM-2335 "Feature/ ime support"	29 days ago	Languages

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.gitlab-ci.yml	Resolve KASM-2437 "Feature/ opensuse 15	19 days ago
.gitmodules	Update noVNC ref	29 days ago
ACKNOWLEDGEME	Correct spelling of License file	12 months ago
₿ BUILDING.txt	Initial commit	2 years ago
CMakeLists.txt	Sse scaling (#52)	8 months ago
DEBUGGING.md	Resolve KASM-2301 "Feature/ debug docs"	2 months ago
LICENSE.TXT	[skip CI] updates to docs	13 months ago
☐ README.md	README: point users to releases page for t	last month
Config.h.in	Silence clang deprecated warnings on macOS	2 years ago

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∷ README.md		

KasmVNC - Linux Web Remote Desktop



Kasm Technologies developed Kasm Workspaces, the Containerized Streaming Platform. Kasm has open-sourced the Workspace docker images, which include containerized full desktops and apps and base images intended for developers to create custimized streaming containers. These containers can be used standalone or within the Kasm Workspaces Platform which provides a full Enterprise feature set. KasmVNC is used as the streaming tech for our container images, however, you can use KasmVNC for individual servers. While the term VNC is in the name, KasmVNC is not intended to remain compliant with the RFB spec and has different goals than other VNC projects:

- Web-based KasmVNC is designed to provide a web accessible remote desktop. It comes with a web server and websocket server built in. There is no need to install other components. Simply run and navigate to your desktop's URL on the port you specify. While you can still tun on the legacy VNC port, it is disabled by default.
- Security The RFB specification (VNC) limits the password field to 8
 characters, so while the client may take a longer password, only the first 8
 characters are sent. KasmVNC defaults to HTTPS with HTTP Basic Auth
 and disables the legacy VNC authentication method which is not
 sufficiently secure for internet accessible systems.
- Simplicity KasmVNC aims at being simple to deploy and configure.

New Features!

- Webp image compression for better bandwidth usage
- Automatic mixing of webp and jpeg based on CPU availability on server
- Multi-threaded image encoding for smoother frame rate for servers with more cores
- Full screen video detection, goes into configurable video mode for better full screen videoo playback performance.
- Dynamic jpeg/webp image coompression quality settings based on screen change rates
- Seemless clipboard support (on Chromium based browsers)
- Allow client to set/change most configuration settings
- Data Loss Prevention features
 - Key stroke logging
 - Clipboard logging

- Max clipboard transfer size up and down
- Min time between clipboard operations required
- Keyboard input rate limit
- Screen region selection
- Deb packages for Debian, Ubuntu, and Kali Linux included in release.
- RPM packages for CentOS, Fedora. RPM packages are currently not updatable and not released, though you can build and install them. See build documentation.
- Web API added for remotely controlling and getting information from KasmVNC
- Multi-User with ability to pass control to other users.
- Web UI uses a webpack for faster load times.
- Network and CPU bottleneck statistics

Future Goals:

- Support uploads and downloads
- Pre-build Packages for all major Linux distributions

Installation

Debian-based

```
# Please choose the package for your distro here (under Assets):
# https://github.com/kasmtech/KasmVNC/releases
wget <package_url>
sudo apt-get install ./kasmvncserver_*.deb
```

```
# We provide an example script to run KasmVNC at #
 # /usr/share/doc/kasmvncserver/examples/kasmvncserver-easy-start. It
 # server on display :10 and on interface 0.0.0.0. If you're happy wi
 # defaults you can just use it as is:
 sudo ln -s /usr/share/doc/kasmvncserver/examples/kasmvncserver-easy-
 # Add your user to the ssl-cert group
 sudo addgroup $USER ssl-cert
 # You will need to re-connect in order to pick up the group change
 # Create ~/.vnc directory and corresponding files.
 kasmvncserver-easy-start -d && kasmvncserver-easy-start -kill
 # Modify vncstartup to launch your environment of choice, in this exa
 # This may be optional depending on your system configuration
 echo '/usr/bin/lxsession -s LXDE &' >> ~/.vnc/xstartup
 # Start KasmVNC with debug logging:
 kasmvncserver-easy-start -d
 # Tail the logs
 tail -f ~/.vnc/`hostname`:10.log
Now navigate to your system at https://[ip-address]:8443/
To stop a running KasmVNC:
 kasmvncserver-easy-start -kill
The options for vncserver:
   Argument
                                      Description
```

Argument	Description
depth	Color depth, for jpeg/webp should be 24bit
geometry	Screensize, this will automatically be adjusted when the client connects.
websocketPort	The port to use for the web socket. Use a high port to avoid having to run as root.
cert	SSL cert to use for HTTPS
sslOnly	Disable HTTP
interface	Which interface to bind the web server to.

Development

Would you like to contribute to KasmVNC? Please reachout to us at info@kasmweb.com. We have investigated or are working on the following, if you have experience in these fields and would like to help please let us know.

Real-time H264 encoding using NVIDIA and Intel encoding technology.

Windows version of KasmVNC. We have been able to get it to compile for Windows and increased the performance, but still not releasable. Experienced Windows developers with a background in cross compiling would help.

ARM version of KasmVNC, we have had requests for this and at one point we did have an ARM build of KasmVNC but it takes dev cycles to mainain and bring it back to life.

Compiling From Source

See the builder/README.md. We containerize our build systems to ensure highly repeatable builds.

License and Acknowledgements

See the LICENSE.TXT and ACKNOWLEDGEMENTS.MD