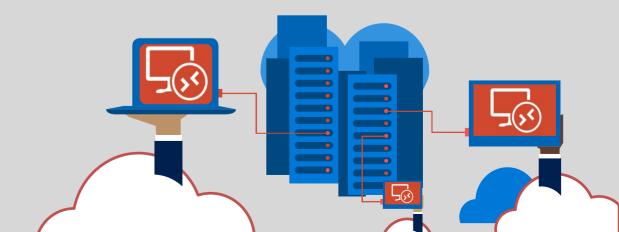
Remote Desktop IO Lab

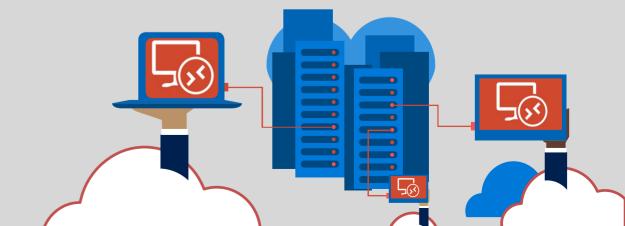
March 20th-22nd 2023

Redmond, Washington



xrdp - status update

Jay Sorg xrdp developer



xrdp - what is it?

- · Open source RDP server for Linux, BSD.
- · xrdp uses
 - · Support admin, ssh, screen
 - · Terminal server
 - · Power user one user per machine
 - · Proxy

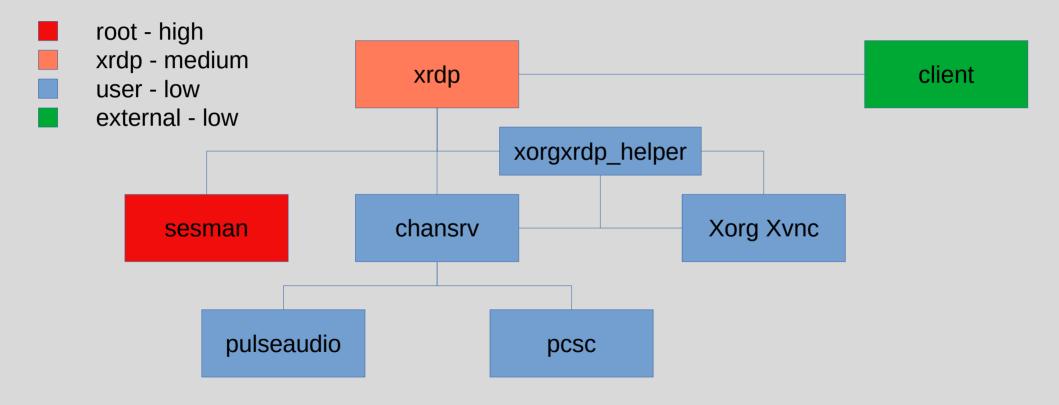
xrdp - last 4 years

- · 1000s of commits
- · 15 releases 0.9.9 to 0.9.21.1
- · 11 CVEs

xrdp - Inter Process Communication

- RDP xrdp client
- SCP xrdp sesman
- xup xrdp Xorg X11rdp
- chansrv xrdp chansrv
- pcsc chansrv libpcsc
- vnc xrdp vnc
- pulse chansrv pulseaudio
- X11 xorgxrdp_helper Xorg

xrdp - IPC



Gfx

- · This is the year
- · mainline merge
- Progressive RFX
- · H264 via x264, nvenc, yami(libva)
- · Todo Clear codec
- · Todo H264 444

Gfx - xorgxrdp_helper

- Yet another process
- Optional, only Nvidia or Glamor
- OpenGL, GLX, EGL (Pixmap → Surface → Enc)
- Nvenc, libyami(libva)
- · CUDA, OpenCL, custom encoders

Dynamic Display

- Docking station
- Single monitor
- Client support MSTSC, MS Mac Client,
 Remote Desktop Client

Future

- · Finish GFX
- · RAIL
- · Sesman redesign, Wayland, RAIL
- · Modularize

Conclusion, demo