PowerShell Conference Europe

Terminals, command lines, and UI's – Windows Terminal & WSL Combined Coolness!

Mike Nelson

PRAGUE23

Many thanks to our sponsors:

Centino systems

PATCH MY PC

ScriptRunner®
The #1 for PowerShell Management

@mikenelsonio mikenelson-io

Mike Nelson

Technical Evangelist @ Pure Storage

- Experience from Helpdesk to Architect
- Scripter, not a coder
- Passion for community, teaching, learning
- Beer, BBQ, & Gadgets

MVP Microsoft Most Valuable Professional

vmware vEXPERT

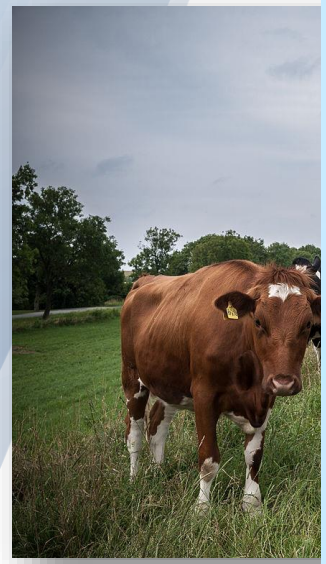
Citrix Technology Advocate CTA

@mikenelsonio

mikenelson-io

Greetings from Wisconsin USA!

PSCONF.EU
PRAGUE23



@mikenelsonio

mikenelson-io

Highlights

PSCONF.EU
PRAGUE23

Terminal

- Conhost.exe
- Run-As & gsudo
- Command Palette
- Customizations

WSL

- v1 & v2
- WSLg
- /etc/wsl.conf & .wslconfig
- systemd & snapd
- new wsl.exe options
- vulnerabilities

Why WSL?

What WSL is not

PSCONF.EU

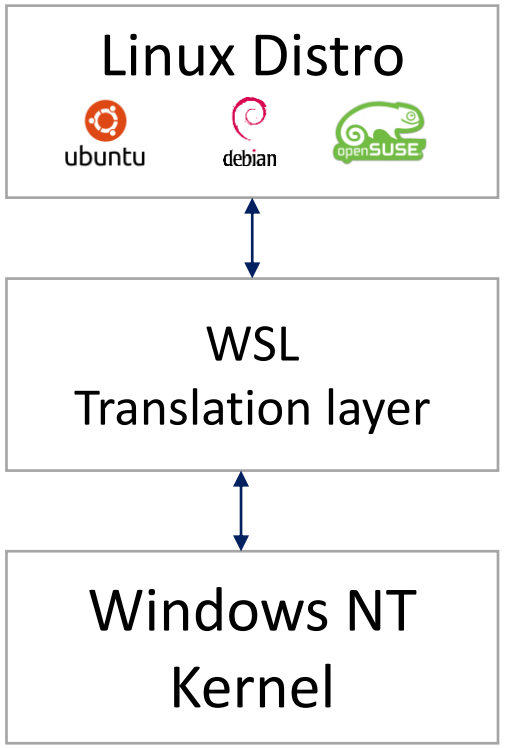
PRAGUE23

@mikenelsonio

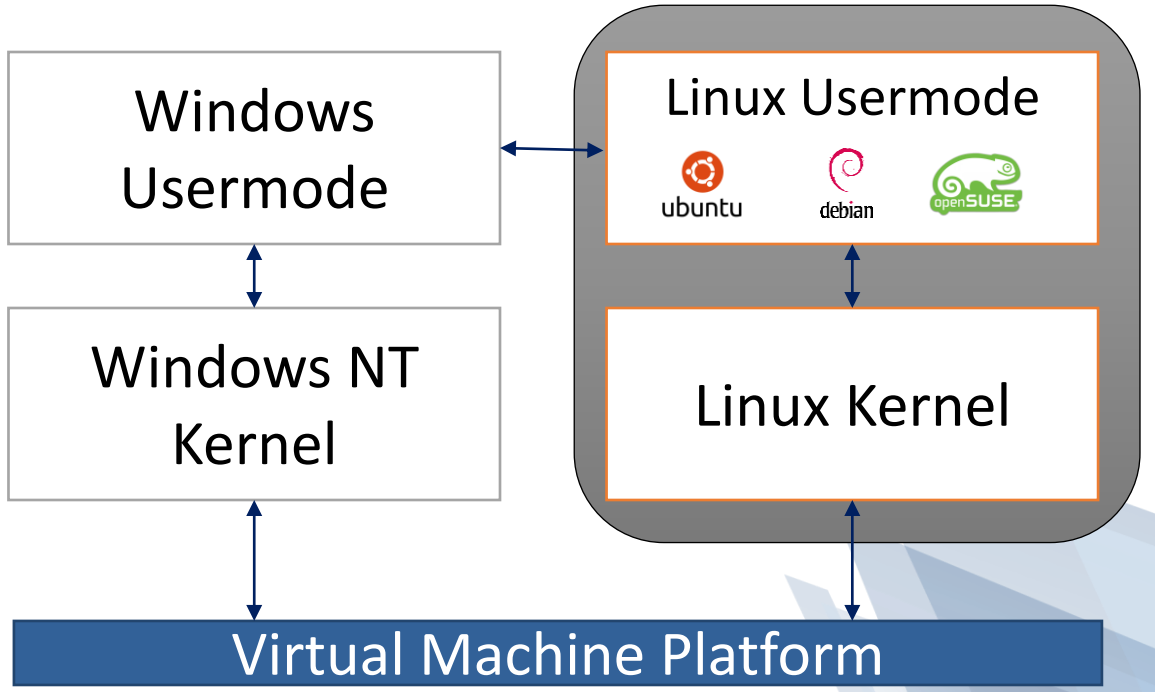
mikenelson-io

Versions

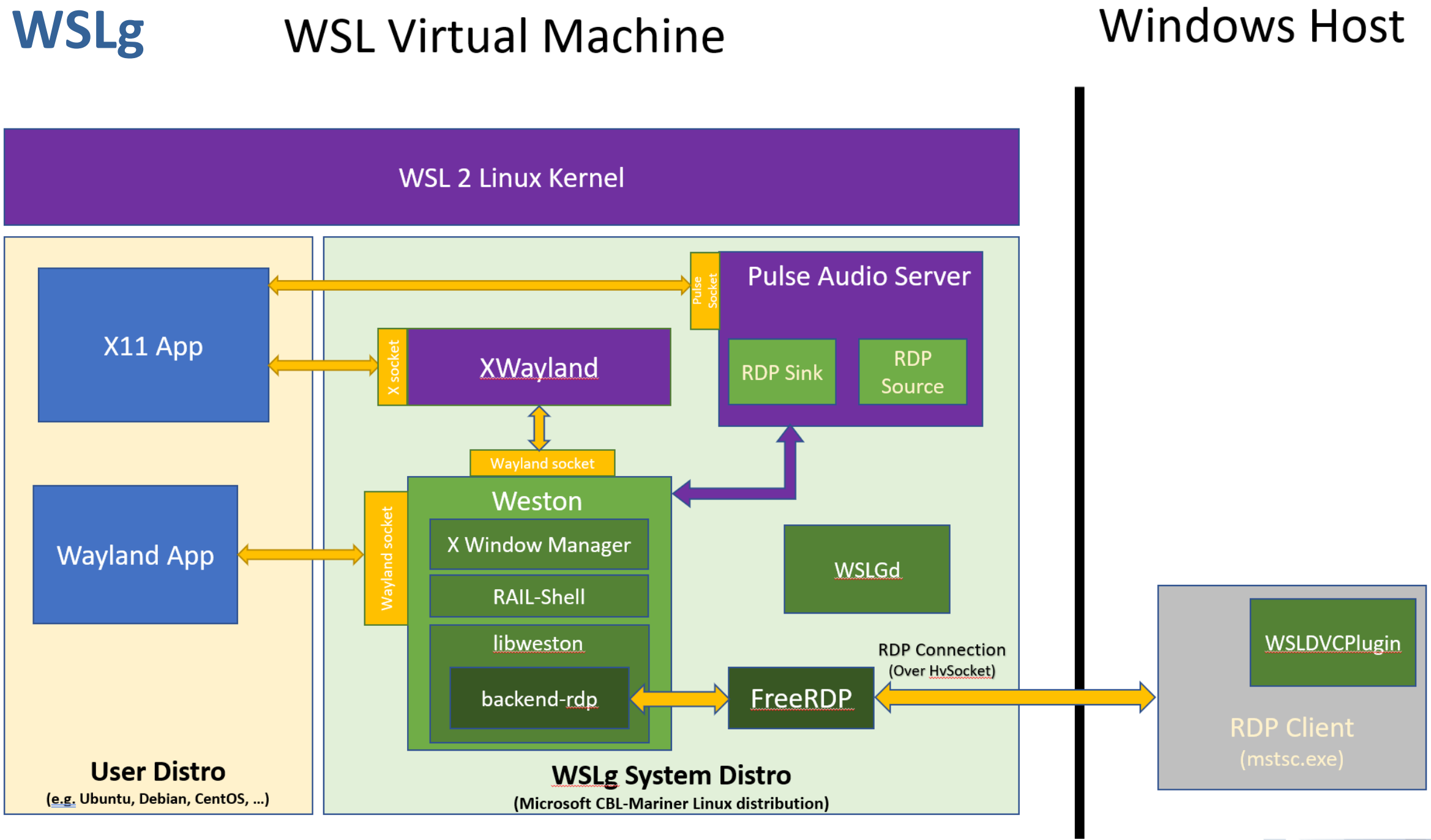
WSL v1



WSL v2



WSLg


WSL Virtual Machine
Windows Host
WSL 2 Linux Kernel
X11 App
Wayland App
Pulse Socket
Pulse Audio Server
RDP Sink
RDP Source
X socket
XWayland
Wayland socket
Weston
X Window Manager
RAIL-Shell
libweston
backend-rdp
Wayland socket
WSLGd
FreeRDP
RDP Connection
(Over HvSocket)
WSLDVCPlugin
RDP Client
(mstsc.exe)
User Distro
(e.g. Ubuntu, Debian, CentOS, ...)
WSLg System Distro
(Microsoft CBL-Mariner Linux distribution)

Demos

PSCONF.EU
PRAGUE23

@mikenelsonio mikenelson-io

Q&A

PSCONF.EU
PRAGUE23

@mikenelsonio

mikenelson-io