

RealVNC @ LC

August 2018 LC User Meeting

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Title (optional)

Aug. 21, 2018



LLNL-PRES-XXXXXX

This work was performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under contract DE-AC52-07NA27344. Lawrence Livermore National Security, LLC

RealVNC @ LC

- What is RealVNC?
- What did we have?
- What do we have now?
- What's coming in the future?
- How do you use it?

RealVNC

- Commercial implementation of VNC (**V**irtual **N**etwork **C**omputing)
 - Founders were the inventors of VNC technology
 - “VNC Connect” is actual product name
- Client/Server software to obtain virtual desktop on a remote computer with good performance
- Enterprise-ready
 - Security
 - Support
 - Robustness



RealVNC (cont.)

- RSA/OTP and 256b encryption
- Why do we use it?
 - Connection mgmt easy: Always use port 5999
 - Enterprise support
 - Performance
 - Platform availability
 - Windows | MacOS | Linux
 - Inexpensive
- User Documentation
 - <https://hpc.llnl.gov/software/visualization-software/vnc-realvnc>

RealVNC Configuration

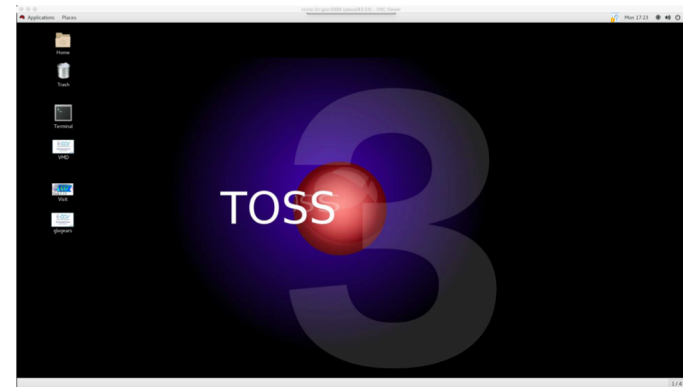
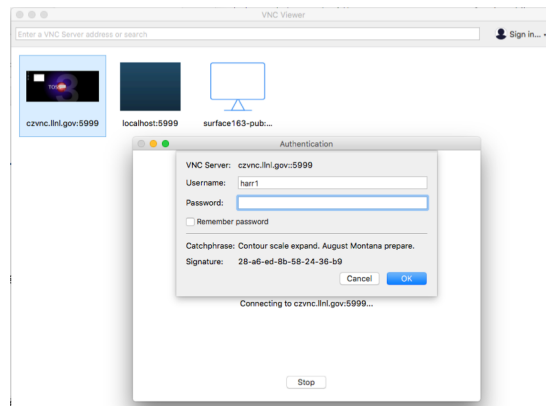
- Previous
 - Available on visualization system login nodes
 - Surface (old czvnc)
 - Rzhasgpu (old rzvnc)
 - Required account on those systems
 - Accessible to those systems from outside LLNL
- Current
 - Available on pascal login node (czvnc)
 - Available on rzslic (rzvnc)
 - Open to all users
 - Accessible from the outside

Upcoming Configuration (proposed)

- Dedicated RealVNC servers for CZ and RZ
- Access to all OCF users
 - Including from outside lab w/o VPN
- Desktop Choice
 - Future option to more-easily change desktop, e.g. Gnome3|KDE|...
- SCF
 - Need to go through approval process
 - Need to understand demand for SCF usage so notifying LC of need will be helpful

Using RealVNC

- Using RealVNC
 - Must use RealVNC client
 - Connect to [czvnc|rzvnc]:5999
 - Will be reconnected to existing session or create new one if no existing is found
 - Can control resolution:
 - See <https://hpc.llnl.gov/software/visualization-software/vnc-realvnc>
 - **Note:** Session will continue unless you log out of (not just close) the virtual desktop





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