RealVNC @ LC
August 2018 LC User Meeting

Aug. 21, 2018
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 (Virtual Network Computing)
  - 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](https://hpc.llnl.gov/software/visualization-software/vnc-realvnc)
RealVNC Configuration

- **Previous**
  - Available on visualization system login nodes
    - Surface (old cvnnc)
    - Rzhasgpu (old rzvnc)
  - Required account on those systems
  - Accessible to those systems from outside LLNL

- **Current**
  - Available on pascal login node (cvnnc)
  - Available on rzslc (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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