SRD
Secure Remote Desktop

What Is SRD?
The **S**ecure **R**emote **D**esktop offers a fully functional Linux Gnome Desktop to the user, running on the Utility Server with local access to the CenterWide File System and specialized hardware for pre- and post-processing applications.

How do I get Started?
First off, you will need to download the SRD Client onto a machine with a functioning HPCMP Kerberos Kit. All the clients and supporting applications (A VNC Viewer) are available at the CCAC User Portal under the "HEUE" tab.

There are two main clients:
- **Java GUI Client** - a Java-based GUI for point-and-click operation, and works on Windows & Mac systems
- **Perl CLI Client** - a Perl-based commandline client and works on Windows, Mac, and Linux systems with a working Perl install.

On a Windows System you can download a specially packaged version of the Java GUI client that includes a working VNC Viewer, requiring no admin privileges to install or use.

Sites to Remember:
CCAC User Portal, to Download Clients
- https://help.ccac.hpc.mil

DAAC Website, with Information on Viz Tools
- https://daac.hpc.mil

How do I start SRD?
First get a Kerberos ticket via your usual means (CAC, SecureID, htoken, HSAM, etc)

For the **Java GUI Client**:
1. Launch the SRD.jar application
2. If this is the first launch you'll be asked to locate the HPCMP ssh application and the required vncviewer binary.
   a. On Mac, ssh is in `/usr/local/ossh/bin` and vncviewer is usually in `/opt/TurboVNC/bin`
   b. On Windows, ssh is the HPCMP plink.exe found in "`c:\Program Files\HPCMP Kerberos`" and vncviewer.exe is in the download
3. Now you need to define sites. The easiest method to initialize the system is to use the "Import" method to import the "Default Site Configuration File" available on the CCAC User Portal site.
4. Now Select a Site, & click "New". In the popup dialog select "Gnome" and click "Submit" to submit a Gnome job
5. After the job has begun running, wait approximately another 30-60s then click "Connect", then follow the on-screen prompts.
After you are finished, select your job and click "Clean" to end the job.

For the **Perl CLI Client**:
1. Edit ClientSite.pm.tmpl to include your sites & file locations, and save it as ClientSite.pm
2. Launch the CLI version (./clientNode.pl) and enter "`SET SITE <sitename>`" to select a site
3. Enter "`STATUS`" to verify connectivity and check system load, and "`INFO`" to see default jobs
4. Enter "`SUBMIT vnc /app/SRVS/pkivnc/test/gnome.sh`" to submit a job.
5. Periodically re-enter "`STATUS`" until your job transitions to "Running".
6. After approximately 30-60s, enter "`CONNECT <jobid>`"
After you are finished, be sure to "`CLEAN <jobid>`" to end your job and release the resources.