

Secure Remote Access at Kansas State University

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A few examples of remote access products:

Product	Protocol	License	Native Encryption	File Transfer Support	Operating System
Windows Remote Desktop	RDP	Included with Windows	128-bit RC4	Yes	Windows
UltraVNC	VNC	GPL	With Plugin	Yes	Windows
RealVNC Free	VNC	GPL	None	No	Linux & Windows
Radmin	Proprietary	Proprietary	AES-256	Yes	Windows

*For a more extensive list, check here:

http://en.wikipedia.org/wiki/Comparison_of_remote_desktop_software

Windows Remote Desktop Configuration

- Right-click "My Computer" and choose "Properties"
- Click on the "Remote" tab.
- Click the checkbox that says "Allow users to connect remotely to this computer"
- Click "Select Remote Users..."
- Add user accounts that you would like to have remote access
- Click "OK"

Windows Firewall Configuration

- Select the Run command from the start menu
- Run "firewall.cpl"
- Click on the "Exceptions" Tab
- Check the box for "Remote Desktop" (TCP port 3389)

UltraVNC

- Download from <http://www.uvnc.com/>
- Download encryption plugins from:
<http://msrc4plugin.home.comcast.net/~msrc4plugin/index.html>

RealVNC

- Download from <http://www.realvnc.com/>
- Has 3 different versions; Free, Personal, and Enterprise
- Personal Edition adds encryption and file transfer support at a price of \$30 per license
- Enterprise Edition adds additional platform support (Unix and MacOS) at a price of \$50 per license
- Educational and volume discounts

Radmin 3.0 Remote Control

- Download from <http://www.famatech.com/>
- Free 30 day trial
- \$49 per license
- Educational and volume discounts

K-State VPN Access

- Get Instructions and download from <http://www.k-state.edu/infotech/networks/vpn/>
- All current students, faculty, and staff should have access with their e-id
- Creates an encrypted tunnel for all traffic going to and from K-State
- Gives you a K-State IP address (129.130.X.X)

Remote Terminal

- PuTTY available on CatPack CD or downloadable from <http://www.k-state.edu/infotech/catpack/>
- SSH client built in to most Linux distributions and Mac OS X

File Transfer

- WinSCP available on CatPack CD or downloadable from <http://www.k-state.edu/infotech/catpack/>
- Cyberduck available for Mac OS X downloadable from http://www.apple.com/downloads/macosx/internet_utilities/cyberduck.html

Protocol	Security	Speed	Transfer Resume	Owner or Group Change	Large Files
FTP	Insecure	Fastest	Supported	Unsupported	Supports files over 4GB
SFTP	Secure (SSH)	Slowest	Supported	Supported	Supports files over 4GB
SCP	Secure (SSH)	Medium	Unsupported	Supported	Does not support files over 4GB

*For a more

extensive feature comparison, check here: <http://winscp.net/eng/docs/protocols>

Additional Web Resources:

How Secure are Windows Terminal Services?

http://www.windowsecurity.com/articles/Windows_Terminal_Services.html

Securing Remote Desktop for Windows XP

http://www.mobydisk.com/techres/securing_remote_desktop.html