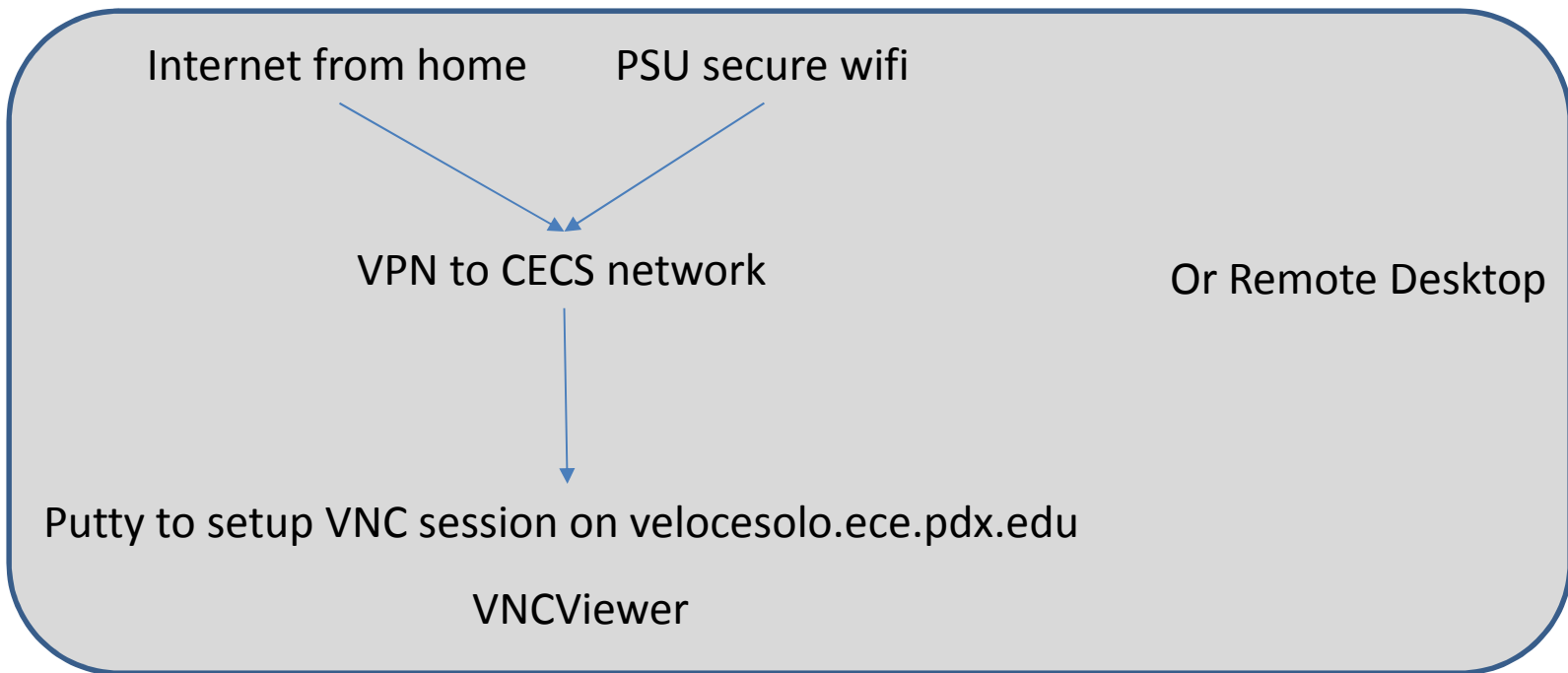


Pre work before Emulation

# REMOTE CONNECTIONS



# Using Mentor Graphics Veloce Emulator at PSU

- Read *Using Mentor Veloce at PSU* (Mark Faust) on D2L tool resources page
  - Includes information and links to download software to run remotely:
    - VPN (Virtual Private Network)
    - Win SCP
    - Putty
- See also info on CAT.pdx.edu
- VPN access is essential for off campus use of the emulator
  - Restrictions
    - Access carefully restricted use only by authorized CECS students
    - Limited resource, for academic use only
    - One user at a time can use the emulator hardware
  - Must be an administrator on your machine to use theVPN.
- Once connected to the VPN
  - your internet traffic is directed through PSU's VPN hardware
    - will appear you are connected physically to PSU's network.
  - Can use private MCECS services that require a connection to the PSU network

# VPN Configuration Steps

- Download and install the [OpenVPN client from OpenVPN.net](#)
- Download [The CAT's OpenVPN configuration ZIP file](#)
  - Extract ZIP file to C:\Program Files\OpenVPN\config directory (or Program Files (x86))

Windows 8/7/Vista (XP similar)

- Right-click on 'OpenVPN GUI' shortcut on your desktop
- **Select 'Run as Administrator'**
- If you are prompted to let OpenVPN make changes to your computer, select 'Yes'.
- Enter your MCECS username and password and press OK to connect.

Alternative that worked for me: <http://cat.pdx.edu/windows/maseeh-college-pptp-vpn.html>

# Setting up VNC session

- Go to cat.pdx.edu
  - Select your hardware platform and follow directions
  - On the left hand side should be a menu choice for Remote Linux/UNIX Desktop Access with VNC.  
<http://cat.pdx.edu/windows/secure-vnc-from-windows.html>
- Directions require you download and install a copy of tightvnc  
<http://www.tightvnc.com/download.php>
- And PuTTY  
<http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>
  - Program doesn't install like a shrink-wrap Windows program
  - I added a putty shortcut to my desktop

# Setting up VNC session

- Establish VPN connection and run putty
  - Enter ece machine name (e.g. eve.ece.pdx.edu) and login to your MCECS account (not your Odin account)
- Run vncserver -localhost **DO THIS JUST ONCE**
  - Provide a new, VNC specific password to log you into your VNC session
    - Strongly advised you not use your MCECS account password here
    - you can also assign a view-only password.
  - Should then see output:
    - New 'X' desktop is eve.ece.pdx.edu:44
  - Log file is in .vnc/eve.ece.pdx.edu:44.log
- Open a new putty to create a secure connection to your VNC session
  - Go to Connection/SSH/Tunnels
    - Enter 5944 as the Source port (or 5900 + what ever your number is)
    - Enter localhost:5944 (or your equivalent) as the Destination
    - Press the add button
  - Go to Session
    - Enter localhost or the hostname (in this case eve.ece.pdx.edu)
    - Press the add button and login using your normal password
  - Keep this putty session only for the next step
- Run tvnviewer (VNC software) on your personal machine
  - Enter 'X' desktop name localhost:5944 (or equivalent number)
  - Login using the VNC specific password you selected above

the number given at the end of the hostname is critical to later connect to your VNC server.

You can find the number in the name of a log file in your .vnc folder

## For normal desktop

- Edit ~/.vnc/xstartup file and uncomment first two lines
- Kill **vncserver** (`vncserver -kill :yournumber` )
- Restart new vncserver