

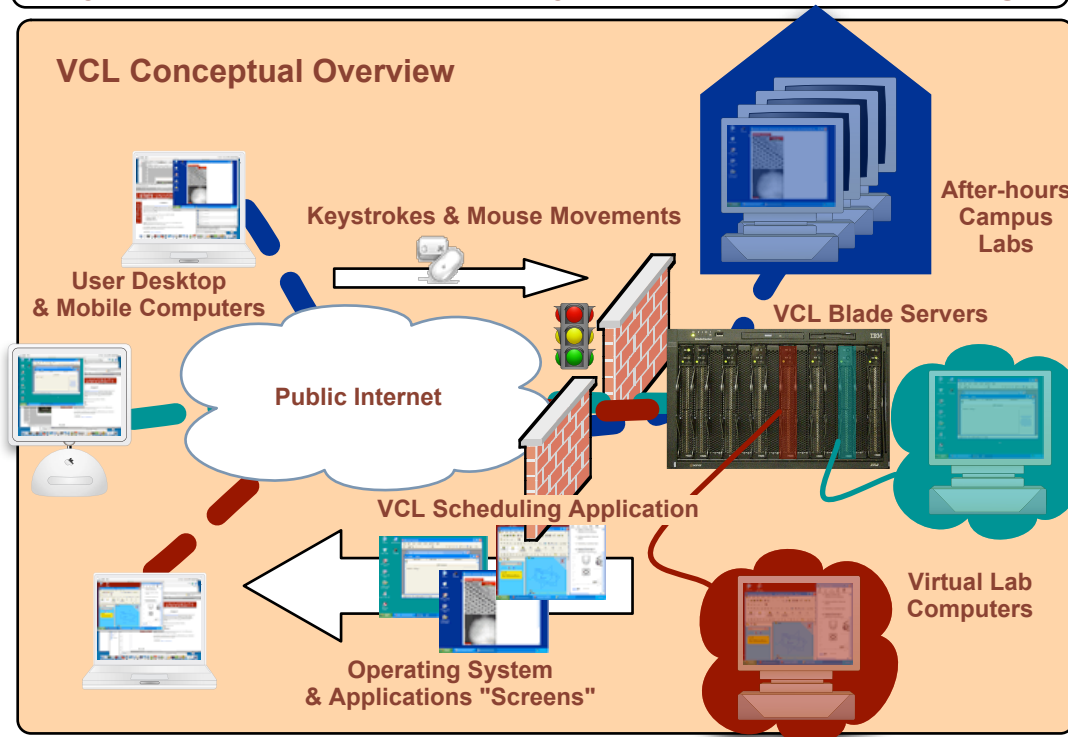
Virtual Computing Lab

<http://vcl.ncsu.edu>

The **VCL Project** - a joint venture of the College of Engineering Information Technology and Engineering Computer Services (**ITECS**) group and the High Performance Computing (**HPC**) team in the Information Technology Division (**ITD**) - is an emerging effort to provide **on-demand** and reservation-based remote access to NC State's extensive library of Engineering, Design, and Scientific software applications to address the increasing needs of both local and distance students and faculty for **24x7** access to advanced computing laboratory facilities.

The heart of VCL is a web-based service for scheduling and provisioning of **remote access** to a set of high-end computational resources (machine-room installed "blade" computers and other specialized University lab computers). These resources are loaded on demand with a choice of operating system images and predefined application sets geared to **instructional computing**.

VCL Conceptual Overview



VCL Features

- **Easy to use remote access** from one's own desktop or mobile computer in homes, offices, or the local coffee house, bringing the "lab" to you
- Full access to a **dedicated computing resource** (some scheduling choices include monitored root or administrator access). This access is the same or more than what is possible in physical computing laboratory.
- **Vendor-standard** remote access protocols and client software. Eliminates the need for specialized customization of one's own computer and eases updates and maintenance.
- **Extensible** to any remotely-accessible desktop systems in specialized campus labs. Departments can bring *their* lab to *their* students.

VCL Sites (<http://>)

vcl.ncsu.edu
hpc.ncsu.edu
www.itecs.ncsu.edu
www.ncsu.edu/itd
www.eos.ncsu.edu

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