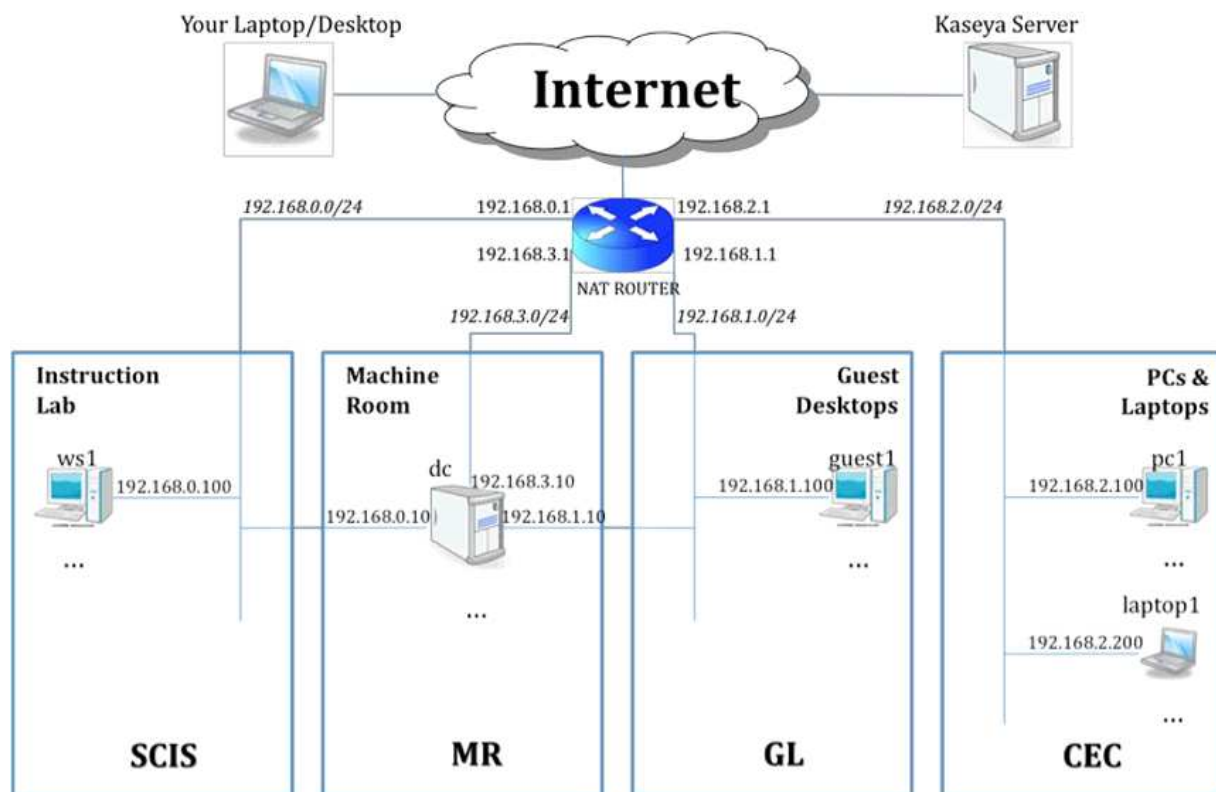




Kaseya University Powered by IT-Scholars

Background Story for the Virtual Labs

Let's assume that you have been just hired as the lead IT Administrator at the Florida International University (FIU) to manage the computers at the School of Computing and Information Sciences (SCIS), the Machine Room (MR), the Green Library (GL), and the College of Engineering and Computing (CEC). As shown in the below figure, SCIS, MR, GL, and CEC are physically located in four buildings. Let's assume that SCIS maintains about 200 desktop workstations in its instructional lab, MR maintains about 5 servers, GL maintains about 50 open access guest desktops, and CEC maintains about 500 PCs and laptops. The exact number and configurations of computers are not well documented. Typically, the servers run Windows 2003 and the desktop workstations, PCs, and laptops all run Windows XP. Active Directory is implemented in one of the servers, named dc, and is assigned to all computers in SCIS and GL, but not to those in CEC. As the lead IT Administrator of the organization you are responsible for ensuring that all systems run efficiently with minimal disruption of computing services to the users.



A logical diagram of FIU's network

You have decided to employ a Kaseya server to help you manage all computers at SCIS, MR, GL, and CEC. Let's assume that your Kaseya server has already been installed in the Kaseya Cloud. Once you schedule your virtual lab for the first time, you



Kaseya University Powered by IT-Scholars

will receive a welcome email with further instructions on how to activate your account on the Kaseya server.

We are not able to provide each one of you with the above number of physical machines! Instead, we provide you with 5 dedicated virtual machines, a dedicated NAT router, and a Cloud Kaseya server to represent this network. Your dedicated virtual environment includes the computers and network devices depicted in the above figure that includes:

- An account on a Kaseya Cloud server: vlab.kaseya.net
- A NAT Router with four network cards with the following private IP addresses: 192.168.0.1 & 192.168.1.1 & 192.168.2.1 & 192.168.3.1
- The SCIS network that hosts ws1.scis.fiu.edu with one network card with the following IP address: 192.168.0.100
- The MR network that host dc.scis.fiu.edu with three network card with the following IP addresses: 192.168.0.10 & 192.168.1.10 & 192.168.3.10
- The GL network that hosts pc1.gl.fiu.edu with one network card with the following IP address: 192.168.1.100
- The CEC network that host pc1.cec.fiu.edu and laptop1.cec.fiu.edu, each with one network card with the following IP addressees, respectively: 192.168.2.100 & 192.168.2.200