Working with Virtual Labs

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Virtual Labs

- How many of you have had a student ask if there was a place other than your classroom where they could work through their labs - like in an “open lab”?
Virtual Labs

- *If you do have an open lab available for them, do the PCs have the operating systems they need to do their labs?*
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- Is the open lab available during the times a student can drive to campus?
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- How you ever had a student have to leave town for an extended period of time because of business reasons?
- What about a student that unexpectedly has to move to another city? How do they do their labs?
Do you have the $$$ to own the hardware shown in these topologies for each of your students?

**Cisco Pod**

**VMware Pod**

**Security+ Pod**

**Storage Pod**
What about the cost of specialized software for each of your students?
What type of student have we NOT talked about?

ON-LINE STUDENTS
Virtual Labs

These are all very good reasons for needing a “lab” that can be accessed from anywhere at any time so students can complete their lab assignments.
Solution Selected by The National Information, Security and Geospatial Technologies Consortium (NISGTC)

NETLAB+
from
Network Development Group
NDG
The Consortium uses NDG’s NETLAB+ to provide virtual labs for its students.
NETLAB+ requires one set of high-end hardware for each class which is used to create multiple “virtual” pods.
Lab Pods Available NOW

Cyber Security

Security+
Lab Pods Coming

- Forensics
- Geospatial Technologies
- Mobile Programming
- Linux+
- Network+
- Cloud Essentials
- A+
Build Custom Labs

Pod Design Guide

Lab Design Guide

General IT Use Pods
Demonstration of a Lab in NETLAB+
QUESTIONS?
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Check out our website at

http://nisgtc.org