

Final Project topic: **UNH Interoperability Laboratory**

https://en.wikipedia.org/wiki/University_of_New_Hampshire_InterOperability_Laboratory

1. Provide a brief overview of the topic
 - a. The Interoperability Laboratory provides various testing infrastructures that companies send their devices in for them to get certified for specifications that are pertinent to its selling in the market. The IOL also has licenses for software made in-house for vendors to run their own testing before getting it certified. It contains a large data center which is lucrative to the testing processes. The IOL uses both hardware and virtual machines to complete its certification testing.
2. How does the topic relate to the course?
 - a. How to run a facility while being safe, having security, and emergency measures. Utilizing virtual machines to maximize efficiency and be able to create virtualized instances of devices quickly(and removal).
3. Does it have the potential to impact what has been discussed in class?
 - a. The IOL has the potential to impact what we discussed in class as it works with Wireshark and reading traffic as we did in class, works with understanding the different types of licenses, and works IPv4 and IPv6 and many other protocols. Various OS types are tested as well(Windows Server OS, RHEL, many Unix variants).
4. Does the topic have any implications or future considerations for the market?

- a. The IOL is doing extensive research on IPv6 as it gets implemented more into the world. This has a large impact because it is one of the few places that is testing this, and it will be a help in the future. It is constantly evolving and adding more to its testing suites so it's always going to be relevant.

Links

Kambal Vaidya:

<https://www.iol.unh.edu/testing/ip/ipv6>

<https://www.iol.unh.edu/news/2020/03/16/unh-iol-ramps-testing-meet-requirements-newly>

James Msaddi:

<https://www.iol.unh.edu/news/2017/03/07/unh-iol-promotes-data-center-open-networking>

<https://www.linkedin.com/company/unh-interopability-lab/>

Ryan J. Skelly:

https://www.iol.unh.edu/sites/default/files/brochures/ipv6_brochure.pdf

<https://www.iol.unh.edu/sites/default/files/brochures/iol-intact-brochure.pdf>