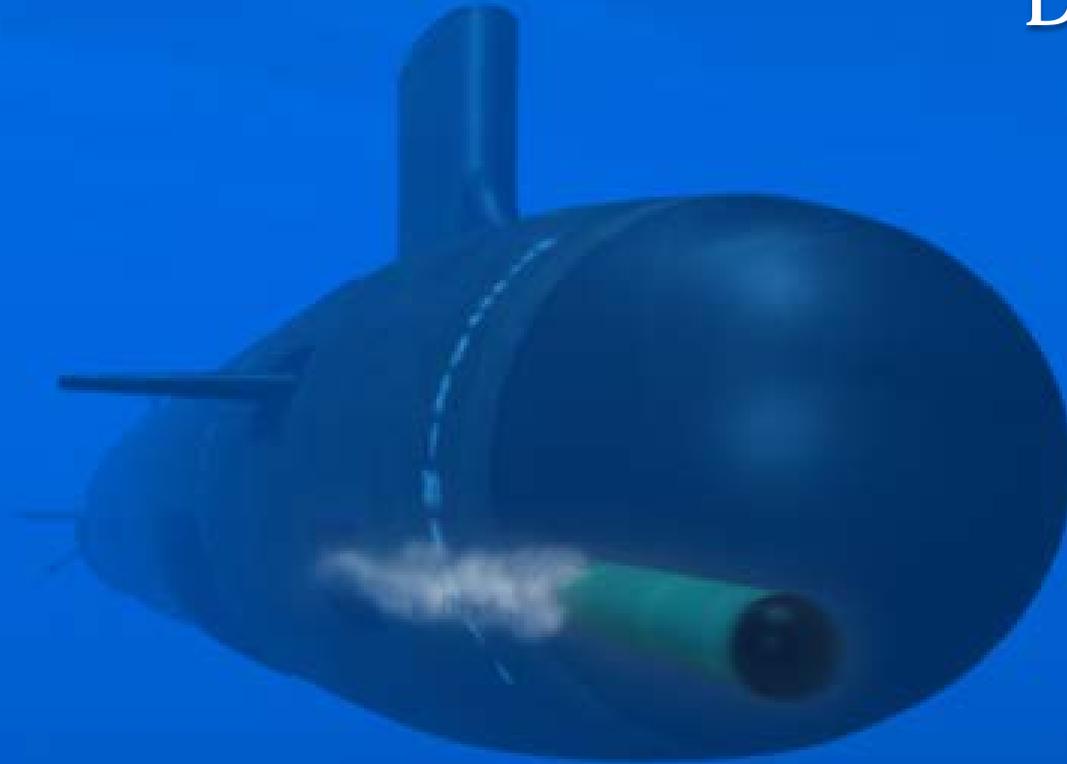


Naval Undersea Warfare Center

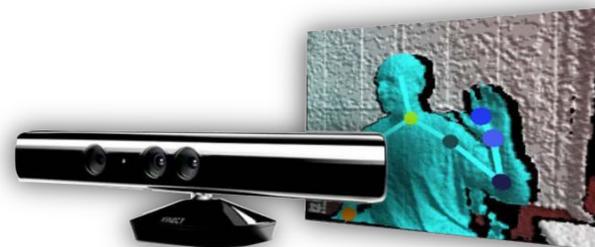
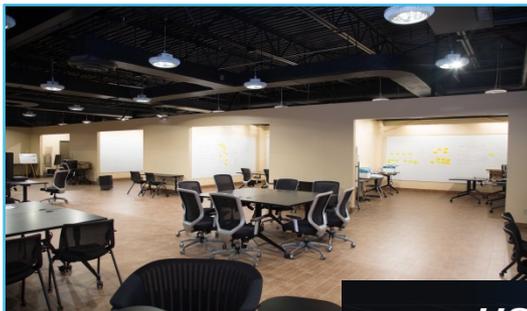
Division Newport



CYBER DEFENSE INITIATIVES



Facilities for Experimentation



Cyber Security Challenge 2015

Understand, Detect and Defeat the CYBER Kill Chain



- You are a member of a foreign power, hostile to the United States
- Members of the US Navy are running a COTS UUV off your coast
- This vehicle is caught in a fishing net, and you bring it aboard for analysis

Is it possible to...

- Find out what they were doing?
- Slow their efforts?
- Install malware?
- Leave intact for re-introduction?
- Explore and demonstrate potential electronic attacks which could abuse critical information stored on the vehicle





Defense Vulnerability Insight Laboratory (DeVIL) Developing our Cyber Security Workforce

FACILITIES



CYBER DEFENSE VULNERABILITY INSIGHT LABORATORY NEWPORT



Warning: These tools are authorized only for use on official government projects. You are advised use these tools on any other machines that are not yours since it can be a criminal offense.

Unclassified

PEOPLE



TOOLS



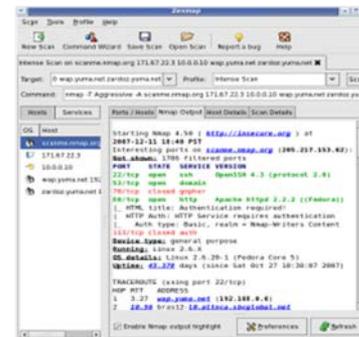
Wireshark



Nessus



Metasploit Framework



Zenmap

CYBER SECURITY END-TO-END EVALUATION

NUWCDIVNPT Campus Network Supports Vulnerability Insight & Certification in Development of Secure & Resilient Submarine Systems & Architectures

Cyber Defense

CYBER WARRIORS
THE THREAT IS ONLY A CLICK AWAY
NAVY

Network diagrams and control panels illustrating Cyber Defense operations.

Systems Security Engineering & Shipboard Protection Tools

SSN SECURE

IMAGING **ESM** **CCS** **SONAR** **CSRR**

NUWCDIVNPT BACKBONE

RADAR/VMS	WEAPONS	LAUNCHERS
CKT-D	NDP	NAVIGATION
VPT	SC/PSC	SUBLAN/CANES

High Fidelity Modeling & Simulation

WAF	TRAINERS	CAFE	RANGES
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Shore-Based Submarine Warfare Federated Tactical Systems (SWFTS)

Vulnerability Assessment

Personnel working at computers and screenshots of assessment reports.

Trained & Skilled Cyber Security Workforce

Cyber Architecture

Certification

Future War Stories

