

## DAVID LAPORTE, CISSP

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I am an IT generalist with over 20 years of senior-level technical and leadership experience in networking, systems, and IT security. Architecting and troubleshooting large systems end-to-end is my passion.

### INDUSTRY EXPERIENCE

#### HARVARD UNIVERSITY

*Director, IT Infrastructure Strategy*

Cambridge, MA  
December 2016 to Present

#### MASSACHUSETTS INSTITUTE OF TECHNOLOGY

*Director, Infrastructure Design and Engineering*  
*Interim Director, Security*

Cambridge, MA  
February 2015 to December 2016  
May 2016 to December 2016

- Lead organization of 30+ staff with responsibility for the design, implementation, and ongoing operation of Institute networking, virtualization, computation, storage, security, and collaboration platforms
- Drove efforts with leading IaaS providers to establish dedicated connectivity solutions and migrate compute/storage resources to the cloud
- Developed and executed strategy to mitigate 100% of compute capacity to IaaS providers within 30 months; current progress stands at 45% and on schedule to meet all milestones
- Oversaw growth of footprint and bandwidth of MITnet; lead contract negotiations with service providers and vendors to expand regional presence and deploy 100Gbps connectivity
- Managed and expanded footprint and capacity of Northern Crossroads, a consortium of 20+ large New England educational and research organizations providing high-speed connectivity to Internet2 and research peers around the world. Worked with key stakeholders at each institution to negotiate and provide service offerings on their behalf, including DDoS mitigation and cloud service provider connectivity.
- Primary Institute contact for incident response, attack mitigation, security engineering/operations, and security policy development

#### MASSACHUSETTS INSTITUTE OF TECHNOLOGY

*Manager, Network Infrastructure and Security Operations*

Cambridge, MA  
December 2013 to February 2015

- Lead team of four security analysts and engineers and served as primary technical resource for all Institute-related IT security matters, including monitoring and incident response
- Hands-on manager of team of 12 engineers with responsibility for network architecture, engineering, and on-going monitoring/support

#### MASSACHUSETTS INSTITUTE OF TECHNOLOGY

*Senior Network Engineer*

Cambridge, MA  
November 2012 to December 2013

- Hardened network elements against attack, including implementation of control plane protection, encrypted management access, two-factor authentication, and campus-wide DDoS mitigation
- Built VRF/BGP-based routing policy server to implement traffic quarantine and identity-based firewalling
- Implemented split DNS and migrated critical web properties to CDN

#### HARVARD UNIVERSITY – NETWORK SERVICES GROUP

*Manager, Network Systems and Management Services*

Cambridge, MA  
June 2011 to Present

- Consolidated compute and storage resources on to Cisco Unified Computing System (UCS) and SAN storage
- Managed a team of six systems engineers, developers, and NMS gurus
- Responsible for University-wide deployment and operation of Splunk logging infrastructure, Infoblox DNS/DHCP, and custom integration using XML/SOAP and JSON/REST
- Responsible for the NOC Portal - a custom-developed application providing role-based access to relevant metrics and service requests from University administrators

#### HARVARD UNIVERSITY – NETWORK AND SERVER SYSTEMS

*Network Services Architect*

Cambridge, MA  
July 2009 to June 2011

- Deployed and managed QRadar SIEM
- Implemented highly-available and modular authentication architecture for 802.1x, NAC, and VPN interfacing with University identity management systems
- Deployed IPv6 into production across wired/wireless networks and enabled native access to infrastructure services

## **HARVARD UNIVERSITY – NETWORK AND SERVER SYSTEMS**

### ***Security Manager***

**Cambridge, MA**

**February 2005 to July 2009**

- Facilitated creation of NOC Customer Portal – a unified, role-based interface to NOC data, services, and metrics
- Deployed network access control (NAC) across student networks
- Coordinated incident response and forensics within Network and Server Systems
- Architected PCI DSS compliant infrastructures to facilitate e-commerce and point-of-sale transactions
- Integrated two-factor authentication into existing business processes

## **HARVARD UNIVERSITY – NETWORK OPERATIONS CENTER**

### ***Senior Network Security Engineer***

**Cambridge, MA**

**November 2000 to February 2005**

- Provided security audits and vulnerability scans to University community
- Evaluated and deployed 802.11 wireless networking/authentications
- Implemented change management system for all network device configurations
- High-bandwidth, asymmetric anomaly and signature-based network IDS deployment
- Implemented and administered Harvard IPv6 demonstration network
- Technical contact for University VoIP pilot program

## **HARVARD UNIVERSITY – NETWORK OPERATIONS CENTER**

### ***Systems Engineer***

**Cambridge, MA**

**November 1997 to August 2000**

- Created security policies and procedures for Network Operations Center
- Wrote and maintained software to administer e-mail aliases for all Harvard employees
- Designed, implemented, and maintained university-wide IDS infrastructure
- Deployed VPN solution to Harvard community
- Built RedHat kickstart and Sun Jumpstart build environments
- Developed DNS zone management system for Harvard namespace

## **TEACHING EXPERIENCE**

### **HARVARD UNIVERSITY**

#### ***Lecturer – Extension School***

*CSCI-E46: Applied Network Security*

**Boston, MA**

**January 2016 to Present**

### **NORTHEASTERN UNIVERSITY**

#### ***Lecturer – Masters of Information Assurance Program***

*IA-5130: Computer Systems Security (on-campus and on-line)*

*Northeast Collegiate Cyber Defense Competition, White Team Captain*

**Boston, MA**

**September 2009 to June 2014**

### **HARVARD UNIVERSITY**

#### ***Teaching Fellow – Extension School***

*CSCI E-45: The Cyber World*

*CSCI E-170: Security, Privacy, and Usability*

*CSCI E-132: Advanced Topics in Data Networking*

*CSCI E-135: Computer Networks and Network Programming*

*CSCI E-131b: Communication Protocols and Internet Architectures*

**Cambridge, MA**

**June 2002 to Present**

September 2014 to Present

September 2006 to June 2009

January 2003 to January 2009

September 2002 to January 2003

June 2002 to January 2003

## **EDUCATION**

### **NORTHEASTERN UNIVERSITY**

**College of Computer Science**

Masters in Information Assurance

**Boston, MA**

**September 2006 to May 2009**

### **NORTHEASTERN UNIVERSITY**

**College of Computer Science**

Bachelor of Science in Computer Science, 2000

**Boston, MA**

**September 1995 to June 2000**

## TECHNOLOGIES

**Languages:** Perl, UNIX shell scripting, SQL  
**Operating Systems:** RHEL, IOS, Windows Server, OS X  
**Applications:** Apache, MySQL, Postfix, ISC DHCP/BIND, Infoblox DNS/DHCP, Nagios  
RANCID, NetMRI, Puppet, Splunk, F5 LTM/GTM, Statseeker, AKIPS  
**Authentication:** LDAP, RADIUS/TACACS+ (Cisco ACS, Radiator, FreeRADIUS),  
Multi-Factor (Duo Security, RSA SecureID), 802.1x  
**Security Devices/Software:** Snort, Bro, Nessus, Metasploit, Cisco ASA, Cisco Stealthwatch, Cisco FirePOWER  
**Virtualization/IaaS:** VMware vSphere, VMware vCloud Air, AWS  
**Networking:** IPv6 deployment, high-performance network monitoring, PCI DSS-compliant architectures,  
Cisco wireless and routing/switching, OSPF, BGP, CDN, VRF

## PROJECTS

**PacketFence** Open-source network access control (NAC) solution  
<http://www.packetfence.org> Co-creator and lead architect  
Acquired by Inverse Inc., May 2008

## CERTIFICATIONS

Certified Information Systems Security Professional (CISSP)  
Red Hat Certified Engineer (RHCE)  
Cisco Certified Network Professional (CCNP, lapsed)  
Certified ScrumMaster (CSM)  
ITIL V3 (2011) Foundation