Protecting student information and keeping the network safe are top priorities for this higher education institution – how did they stack up?

A private liberal arts and sciences university based in California faces the same IT security challenges that many higher education institutions must manage. A significant issue is that the university’s IT department serves as the Internet service provider (ISP) for the entire student body of 4,500 students on seven regional campuses.

Another challenge for the school is segmenting the student body from the critical infrastructure and systems that house sensitive data. The university had implemented security features using its own IT staff, but wanted to test the current infrastructure to ensure the students and the school’s assets were protected.

What was the best way to approach this challenge?

• Perform a network security assessment of the school’s IT assets and environments.
• Assess current security posture compared with industry best practices.
• Identify vulnerabilities that could negatively affect the institution.
• Provided recommendations for remediation of any found issues.

PROJECT OVERVIEW

Organization Size:
4,500 students

Organization Industry:
A private California liberal arts and sciences university

Challenge:
To assess the university’s current information security posture against industry best practice standards, and identify vulnerabilities that could negatively affect the institution.

IMPACT

• Identified strengths and weaknesses
• Reported key findings, deficiencies and implications
• Determined short-term and long-term remediation goals
• Provided comparative security posture analysis
SECURITY ASSESSMENT SERVICES:
Validating Security Measures

Asset Cataloging
To start, Optiv cataloged IT assets, then attempted to penetrate existing security mechanisms by using software tools and exploit scripts that are similar to those used by attackers.

Testing and Assessment
Optiv performed vulnerability assessments and penetration testing of Internet-facing devices, firewalls, operating systems and application platforms. They also completed wireless infrastructure and network architecture configuration reviews.

Analysis
Optiv concluded that the university was at a low level of exposure. Though Optiv did not find any critical issues, they did identify low and medium criticality vulnerabilities relating to vendor technology.

Recommendations
Optiv recommended short- and long-term goals to address gaps such as systems in need of maintenance releases. Where not limited by vendors, the university could upgrade and apply security updates to lower the risk of unauthorized access.

Fully Maximizing a Product Investment

By partnering with Optiv to conduct an objective third-party security assessment of its IT network, this California university found that it is well above its peers concerning industry standards. However, Optiv discovered opportunities for the university to even better secure its environment and protect its important and confidential data. Due to a successful project, the client:

• Confirmed a low level of exposure with no current critical issues.
• Received key findings and information on deficiencies and their implications.
• Determined short-term and long-term remediation goals.
• Obtained comparative security posture analysis.
• Identified levels of risk for third-party vendor technology.

Patone
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295C
447C
Warm grey
1C
1125 17th Street, Suite 1700 | Denver, CO 80202 | 800.574.0896 | www.optiv.com

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