

# TURN HIPAA COMPLEXITY INTO HIPAA COMPLIANCE

In today's world of cyberwar, many healthcare organizations are implementing penetration testing as a way to evaluate the true effectiveness of their technical controls. Penetration testing can identify and exploit vulnerabilities in an effort to determine the likelihood of real-world threats against an organization's IT assets and physical security.

#### **QUICK FACTS:**



Over 30 million electronic medical records have been compromised since 2009



**Penalties can be up to \$1.5 million** over the course of a calendar year





#### **THE CHALLENGE**

The Healthcare security landscape is facing a rising threat of malicious attacks that target protected health care information and/or personally identifiable information. The number of incidents that evade traditional security defenses are increasing at an alarming rate, and with the growing prevalence of EHRs, the playing field has become more enticing to hackers. According to a May 2015 Ponemon Institute study, criminal attacks on healthcare data are up 125% compared to five years ago, and the average cost of a data breach for healthcare organizations is estimated to be more than \$2.1 million.

Protecting patient information is a core measure of
HIPAA compliance, and proper protection of that
information includes Network and Security Systems
testing and remediation. However, it can be very
difficult for many Healthcare organizations to test
and analyze network vulnerabilities. Most Healthcare
IT Departments simply do not have resources
or expertise that can be dedicated to the design and
implementation of testing methodologies that actively analyze
their systems for technical vulnerabilities. In response, many
Healthcare providers have partnered with BlueOrange Compliance to
help pinpoint real risks to their networks, assess the performance of their
overall security controls, and provide remediation support and guidance.

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**David Finkelstein** *RiverSpring Health CIC* 





#### **THE SOLUTION**

The IT professionals at RiverSpring Health recognized the potential threat and partnered with BlueOrange Compliance for the solution. For nearly 100 years, RiverSpring Health has been one of the nation's leading Senior Care organizations, and has continually renewed and expanded its commitment to provide the best possible care and the highest quality of life for older adults. Located on 32 acres along the Hudson River in Riverdale, New York, RiverSpring Health provides a full range of care solutions including skilled nursing care, post-acute short term rehabilitation care, managed long-term care, assisted living programs, senior housing, and specialized services such as elder abuse prevention and

In the role of Chief Information Officer for RiverSpring Health, David Finkelstein considers maintaining HIPAA compliance a leading challenge. David determined that hiring a compliance partner to perform penetration testing was a "practical approach" to a security challenge, and

memory care.

a "quick and easy way to validate compliance". David adds that BlueOrange was selected as a compliance partner because of their "ability to quickly execute the process and use a consultative approach in performing the testing and assisting in remediation." BlueOrange's approach to penetration testing involves a comprehensive and low-touch method: Gather the maximum

amount of information in the shortest possible time, work on remediation, and follow-up with increasingly

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deeper testing.

### **THE PROCESS**

BlueOrange begins the penetration testing process by gathering information about the environment, identifying IP ranges, determining the best social penetration testing model and identifying a finite set of email addresses for a phishing campaign. BlueOrange will perform an external vulnerability scan remotely, and then go on-site to perform an internal vulnerability scan. Armed with the latest penetration testing tools and techniques, BlueOrange can initiate a phishing expedition to attempt to solicit information, and can also probe various devices for vulnerabilities and exploitation potential. During the penetration tests, also known as "ethical hacking", BlueOrange will simulate the practices and methods of external or internal agents attempting unauthorized data access. Finally, BlueOrange will gather the results and provide a prioritized, detailed and actionable remediation plan.

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## **THE OUTCOME**

Imagine the impact to a Healthcare provider if an attacker were to successfully gain infrastructure access. Security vulnerabilities may be present in operating systems, applications, configurations or risky end-user practices. That's why penetration testing as part of a comprehensive security and privacy compliance regimen is so critical to identifying vulnerabilities and ensuring a Healthcare organization is protected.

David Finkelstein concurs, "IT security is not easy, and you need a partner to ensure success." David reported complete satisfaction with the process, depth and level of detail provided by the BlueOrange penetration test. Moreover, he appreciated that BlueOrange "ensured our business was not interrupted by the penetration testing". Finkelstein adds that "the BlueOrange penetration testing validated and provided additional insight into potential security risks I had already suspected, and included remediation support and recommendations." Perhaps the most valuable outcome of the testing was the identification of a risk not previously suspected. David Finkelstein reveals that "the spearfishing campaign was eye opening and it identified a vulnerability that required the immediate training and education of all staff across the organization to recognize and report phishing attempts."

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# ADVICE TO SHARE WITH OTHERS

Healthcare providers are legally and ethically obligated to ensure patient privacy. HIPAA law mandates documentation, processes, and security controls that must be implemented to protect privacy and security of health information. Complex, ever-changing regulations, increased vulnerabilities and cyber warfare make it difficult to stay in front of emerging threats. Penetration testing provides a realistic view of the actual security state of an environment; insight that is critical to organizations that want to protect and secure their business. In fact, so vital that Finkelstein insists that "Penetration testing should be executed on a routine basis, rather than once every few years". When asked what insights he would share with other Healthcare providers, Finkelstein concludes, "Don't underestimate the complexity of IT security and the necessity of 3rd party validation that you are compliant and secure."

BlueOrange Compliance has been providing privacy and security assessments since the inception of HITECH, and has over 50 years of experience in technology security, compliance and healthcare. Our national client base consists of hospitals, physician provider practices, LTC Pharmacies, SNFs, LPCs, homecare and hospice and business associates, If you want to learn how BlueOrange Compliance can help you turn HIPAA complexity into HIPAA compliance, call today and speak with one of our security navigation experts.

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