

# Ethical Hacking Services Application Testing



Modern commerce relies on information technology systems that are dependable, secure, and accessible. Unfortunately, even organizations that maintain good security practices sometimes overlook the importance of application testing. Application-level testing uncovers design and logic flaws that could result in the compromise or unauthorized access of your networks, systems, applications or information.

The BT Ethical Hacking Center of Excellence (EHCOE) uses Application Testing to identify and investigate the extent and criticality of vulnerabilities found in thin client (web browser) and thick client (java) applications, including front-end and backend systems. Activities range from injections and cross-site scripting to decompiling code and HTML proxy manipulation.

The BT EHCOE helps organizations protect their information assets and business reputation. In fact, our dedicated EHCOE consultants have helped many of the world's largest financial institutions protect their web-based service delivery systems. Utilizing our structured Information Security engagement methodologies, our team of security experts identifies vulnerabilities that could impact organization and provides business-oriented solutions. Through extensive research and experience, EHCOE consultants continually develop new intrusion testing techniques and add to our proprietary library of manual tests and custom developed tools.

BT Ethical Hacking services are backed by our comprehensive Security portfolio. You can count on our unsurpassed security expertise; BT is the highest rated NSA-certified organization. We are quality-focused, and use a highly-tuned delivery methodology and toolset. Our dedicated security practice includes of the largest and most experienced security consulting teams in the world, and is deeply engaged in the science, technology and art of information protection. Our security consultants maintain certifications across leading security disciplines and technologies, and have extensive knowledge and experience with current security standards, best practices and government regulations, including ISO 17799/BS 7799, HIPAA, Sarbanes-Oxley and Gramm-Leach Bliley.

## The BT Approach

With each consulting engagement, BT takes a business-centric approach to mapping people, process and technology with corporate objectives. Utilizing our structured methodologies, our consultants work closely with your executive and functional staff to understand your business needs, deliver in-depth analyses and provide solution recommendations. We also ensure thorough knowledge transfer via hands-on explanations, formalized training for key personnel and detailed engagement deliverables to help you establish an operational framework as a foundation for continued success. With 15 years of technology integration and business solution delivery experience, our expertise spans the entire IT enterprise, from strategy, planning, compliance and governance to networking, security, storage and application development and integration. By combining our comprehensive expertise with our best practices and proven processes, we are able to deliver consistent and exemplary results that help innovate your business operations and create a foundation for continuous improvement.



## Realize the Results

- Identify design flaws and improve the security of your application at the development level
- Determine if client software may be manipulated to provide unauthorized access
- Understand your level of risk
- Protect your organization's information assets and reputation

## BT's Ethical Hacking Services provide various types of testing, including:

- Application Testing
- Network Testing
- System Hardening
- War Dialing
- Wireless Security

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BT Application Testing services include Web Application Testing and Client-side Application Testing, with Verification Testing available as appropriate.

During the Web-Application Testing the EHCOE consultants will use a proprietary process to examine the security controls being provided by the application. First, they will pose as an unauthenticated attacker targeting the application being assessed. During the attack, they will test the integrity of the application and the strength of the authentication mechanism as well as any other vulnerability associated with the application. Then, posing as an authorized user with access to the application, they will attempt to exceed the intended privileges and authority. This tests the security provided by the authentication and session management mechanisms.

The Client-side Application Testing is also a BT-developed process for assessing Web-based and custom client/server applications with client-side software components consisting of Java applets that operate within a Web browser, standalone Java applets or standalone executable applications. This test measures the security integrated into the client software components and reviews the client software interaction with the remote server application. These assessments also determine if any unnecessary information is entrusted in the client software, or if the client software can be manipulated in a way that provides unauthorized access to features of the server application. The purpose of this test is to collect as much information as possible about the client application and server communication and to see how an attacker could manipulate the software. Testing is based on information gathered by observation or through reverse engineering, where permitted and applicable.

BT will immediately report any high risk vulnerabilities identified during testing. When the testing has been completed, you will receive a formal report that will contain:

- Identify vulnerabilities and weaknesses of the environment
- Rank the vulnerabilities and weaknesses in order based upon your security policies as well as best practice, ability to be exploited and mitigating factors
- Recommend both technical and process-oriented remediation and mitigation solutions

## About Us

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BT in the U.S. and Canada provides solutions that help enterprises effectively use technology to drive business growth. The expertise of our more than 4,000 employees enables us to help customers globalize their businesses in innovative and sustainable ways. Through strategic development, strong partnerships and a diverse collection of best practices and methodologies, BT has emerged as a leader in networked IT services providing professional services and consultancy, managed services and full outsourcing for business and IT transformation. Our professional services are driven by the needs of our customers. In our role as a trusted advisor we shape our business around helping our customers navigate the rapidly changing technology landscape through solutions that reduce costs, increase flexibility, strengthen security, ensure compliance and improve efficiency.

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For additional information, please contact your local BT professional services representative. You can also visit our web site at <http://bt.ins.com> or call 1-888-767-2988.

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