

Although most IT organizations strive to protect themselves from malicious attacks and intrusions, the constant development of new viruses, methods of intrusion and types of sabotage make protecting any system a difficult, never-ending challenge. Studies reveal that unauthorized access to IT systems cost organizations millions in business losses, with the most damaging incidents stemming from viruses, unauthorized access and theft of proprietary information.

BT, as part of its mission to help clients manage risk and improve security, has developed a world-class Ethical Hacking Center of Excellence (EHCOE). EHCOE consultants specialize in the identification and mitigation of weaknesses and vulnerabilities in diverse technical environments, using structured Security and Network Engagement Methodologies to safely test the security of IT systems through simulated attacks that are completed in a safe environment. Members of the BT EHCOE are continually researching emerging threats, testing new intrusion techniques and developing effective counter-measures to malicious activities. Constant vigilance enables us to provide our clients with exceptional security.

Our EHCOE consultants do not simply scan for issues. Instead, we utilize a number of techniques that find system weaknesses and vulnerabilities, at the network and application level, that typical scanning would overlook. Depending on the type of ethical hacking engagement, we will test for over 600 vulnerabilities, complete an application-level review for weaknesses based on logic flow, attempt multiple methods to gain unauthorized access to your environment and scrutinize your technical systems and security processes for flaws using a combination of publicly available tools, BT customized manual tests and proprietary tools. Our extensive experience, our well-documented processes and checklists and our vulnerability databases ensures that we will provide your organization with a methodical, meticulous, comprehensive evaluation of your technical environment.

Our EHCOE consultants have partnered with many of the world's largest financial institutions to secure their electronic commerce solutions and web-based services. Our Security Assessment Methodology is certified by the National Security Agency (NSA), and our Security Training Curriculum is accepted for continuing education credits by the International Information Systems Security Certifications Consortium (ISC)<sup>2</sup>.

## Benefits

BT has dedicated itself to providing its clients with secure technical environments through the development of its Ethical Hacking Center of Excellence. The services delivered by our expert security analysts enable organizations to protect their networks, information assets and reputations. Some of the benefits that can be realized by investing in an ethical hacking review of your technical environment include:

- Improved organizational understanding of risk and mitigation for accessible networks
- Earlier recognition of attacks and stronger defense against them
- Development of effective mitigation strategies based on your specific environment
- Reduction in web application development security flaws
- Ability to prioritize security initiatives based upon risk
- Reduced risk of service interruptions and security breaches
- Implementation of technical and procedural changes to improve the security infrastructure
- Identification and elimination of potential points of unauthorized access
- Enhanced data protection methods



## The BT Advantage

BT provides incomparable Ethical Hacking Services by combining the vast knowledge and experience of our consultants with proven methodologies. Analysts at our Ethical Hacking Center of Excellence are continually striving to improve their understanding of potential threats and develop effective countermeasures.

Specific BT differentiators include:

- A dedicated team of over 30 ethical hacking experts at the BT Ethical Hacking Center of Excellence.
- More than seven years of experience per team member, on average
- A complete set of proven, repeatable testing methodologies that ensure consistent, high-quality results
- A team of over 100 security experts, including widely recognized industry leaders and published authors, that provide support to the Ethical Hacking team

BT will provide secure, flexible technical and business solutions that support your organization's success. Let us help you excel.

## Features

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### Application Testing

The BT Application Testing service uses a rigorous assessment process to review web-based applications for security. The EHCOE consultants review the logic structure, code, methods of access and authentication mechanisms to ensure that the application cannot be misused or provide unauthorized access to intruders. The main goals of this service are to:

- Reduce web application security weaknesses
- Identify and mitigate intrusion vulnerabilities
- Strengthen data protection methods

### Network Testing

BT performs stringent Network Testing that is comprised of a number of components, which vary depending on the specifics of the technical environment. These include external and internal vulnerability and penetration assessments, VPN vulnerability and penetration tests and an analysis of VoIP within your environment. Typical engagements include security tests of Internet facing routers and switches, Internet firewalls or other screening devices, Mail servers (SMTP, POP, IMAP), Web and FTP servers, DNS servers and other systems as identified during testing.

During the assessment, our EHCOE consultants will:

- Identify the vulnerabilities and weaknesses in your environment
- Rank vulnerabilities by level of risk and the ease with which they can be exploited
- Explain how to mitigate or eliminate the vulnerabilities
- Advise your organization on non-technical methods to enhance security through enrichment of customer policies, adoption of industry best practices and changes to security processes

### Wireless Security

The BT Wireless Security service is composed of multiple phases. During the first phase the EHCOE consultants use radio access to attempt to detect your 802.11 wireless networks, their locations, ranges, configuration information and identifying system information or access parameters. The second phase is when EHCOE consultants will evaluate your infrastructure's security measures, including following ESSID, the use and strength of WEP encryption, network segmentation and access control devices. Throughout the final phase of the project, the BT EHCOE consultants will try to use the vulnerabilities discovered during Phase Two to obtain access to other network segments. If successful, they will test different methods to exploit that access.

A BT Ethical Hacking Wireless Security service provides your organization with the ability to:

- Identify weaknesses and vulnerabilities specific to the wireless infrastructure
- Mitigate risk by modifying the network configuration
- Increase the security of your wireless infrastructure through technical and procedural changes

### War Dialing

During a War Dialing project, EHCOE consultants find unauthorized modems that provide access to your network and then attempts to exploit your network through illicit devices. First, the EHCOE consultants search out modems and log each number called, the date, the time and the call results. Each unauthorized modem that is

found will be evaluated to determine the communications software or host operating system. Then BT will attempt to break into modem-connected hosts. These penetration attempts are intense, relying heavily on the proficiency of our expert analysts. The configuration and location of the systems attached to the modems will determine which techniques are used to establish access. Additionally, we will use a variety of commercial, publicly available and proprietary tools, all of which have been thoroughly evaluated in our testing lab.

A BT War Dialing engagement will help your organization:

- Improve security by identifying unauthorized points of access
- Understand and manage the risks involved in managing an accessible network
- Close unsecured entries to your environment

### System Hardening

System Hardening tests for over 1,000 network-level vulnerabilities and is completed in three phases. The BT EHCOE consultants will start with a review of your network to find gaps in security updates and other common security defects, then our analysts will study remote access devices for vulnerabilities, and finally we will attempt to access the host system. While the first phase of the assessment is an uncomplicated review of your network's security, the second and third phases are increasingly complex. During phase two, the consultants check the host operating system to determine what services are available to remote users and ascertain if those services are vulnerable to remote exploitation. During the final phase of the engagement, we will attempt to exploit vulnerabilities and weaknesses discovered during the assessment to access the host system. Our EHCOE consultants use a wide range of publicly available and proprietary tools, all of which have been strictly reviewed and evaluated to ensure their safety.

BT System Hardening services help your organization:

- Identify vulnerabilities with the current network configuration
- Reduce the risk of service interruptions and security breaches
- Implement technical and procedural changes to improve the security infrastructure

## 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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