Product brochure

Your next step into digital

Our cloud and security services

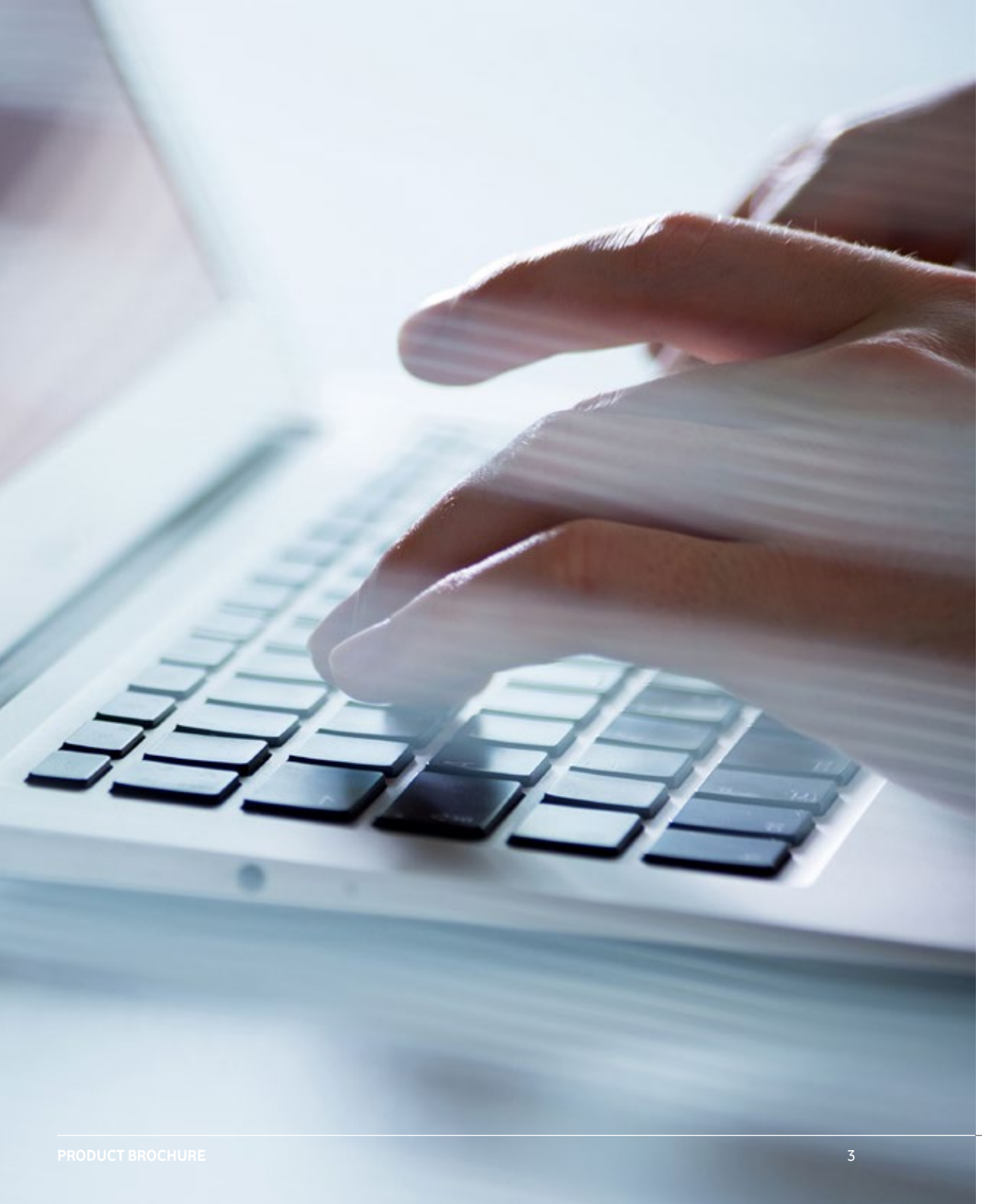
The future is exciting.

Ready?

X-Force Offensive Security Testing

vodafone business

Contents



What is X-Force Offensive Security Testing?

This service is a suite of security testing solutions designed to meet an organisation's need to validate their environment for vulnerabilities. The service is available in the following two forms:

- **Application Penetration Testing**

  Application Penetration Testing is an attack and exploitation exercise designed to evaluate the effectiveness of a target's security controls. While tools may be used in the course of a penetration test, manual testing and exploitation is a key component of the testing methodology offered in this service.

- **DevSecOps Service**

  DevSecOps assessment is a dynamic tool-based, unvalidated raw application scanning service available on internal and external web, mobile, terminal, on-prem server, mainframe and middleware platforms. The targeted applications are scanned with an automated suite of tools to identify potential security vulnerabilities.

What is the Application Penetration Testing?

The X-Force Application Penetration Testing provides a human tester who will manually discover and exploit vulnerabilities in an application to simulate a real-world attack. Testing is performed against both authenticated and public areas of the target. The testing can be purchased in three levels: entry, standard and advanced.

For each level of testing, a report is provided documenting the application's overall security posture and all test findings. Each finding will include an explanation of risk and recommendations.

- Entry-level penetration tests focus on high-priority application components and simpler vulnerabilities. For example, authentication and session tracking mechanisms, interfaces that handle sensitive data and workflows that could allow fraud.
- Standard-level tests also provide the testers with the time to use more complex techniques and look for more complex vulnerabilities. Examples include multi-step logic flaws, insecure file uploads, advanced injection flaws and basic encryption flaws.
- Advanced-level tests offer the highest level of dynamic application testing, with all aspects of standard and entry-level tests included. Testers will use more complex techniques, such as reverse engineering of compiled files, dissection of custom binary protocols and objects, custom memory corruption exploits and in-depth analysis of publicly available libraries and frameworks. Vulnerabilities typical of advanced penetration tests include serialisation/marshalling flaws, padding oracle attacks and improper block modes.

What is the DevSecOps Service?

The DevSecOps assessment service provides for up to 50 dynamic application scans, whereby the targeted applications are scanned with an automated suite of tools to identify potential security vulnerabilities. Scans can be performed unauthenticated or with credentials supplied. Common vulnerabilities that are tested include SQL injection, cross-site scripting, server misconfiguration, unpatched software, weak transport encryption and cookie flaws.

After the scans are complete, a human analyst will review all findings and remove those that can be identified as false positives and provide a report that contains all findings identified by the tools, including risk ratings, locations, vulnerability descriptions, recommendations and external references as appropriate.

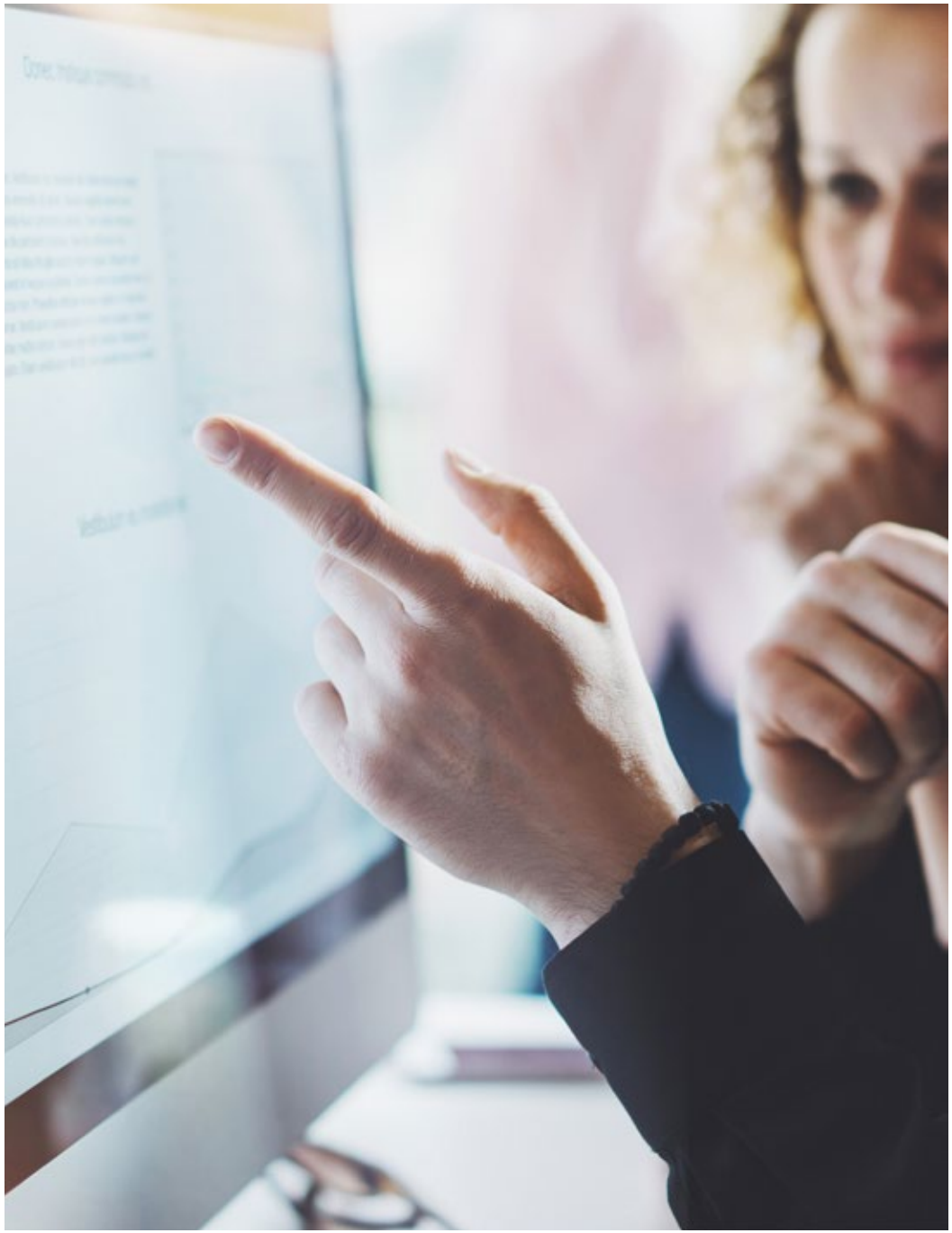
What do you use it for?

- To manage increasing threat landscape across a diverse and sometimes unmonitored infrastructure and complex internal environment
- To test a multitude of applications that require security testing
- To reduce significant cost from data breaches each year
- To drive organisation security activity by adhering to compliance
- To provide actionable security intelligence and insight not currently available
- To provide suitable skills and scale to deal with increased threat
- To test diverse platforms – web, mobile, thick, mainframe, middleware services etc. with varying degrees of complexity and sensitivity
- To frequent last-minute tests when new internal projects are started

What's in it for you?

The service offers a real view of security and ensures organisations can protect themselves from threats.

- The specialised service provides an added level of protection and access to an autonomous team of veteran hackers who can address the increasing threat landscape, test the full cloud estate and identify critical vulnerabilities that scanning tools cannot find.
- The servicer ensures organisations understand the behaviours of applications – how they communicate and how hackers could circumvent the logic.
- It enables businesses to identify and remediate security flaws before criminals do.
- It identifies and fixes critical vulnerabilities quickly across the entire infrastructure from systems, applications, devices to personnel.
- It allows companies to make pragmatic changes to strengthen security across the entire environment
- It provides a deep understanding of where to invest security spend so that residual loss is minimised
- It helps organisations maintain industry best practice and regulatory requirements (GDPR, PCIOSS, SOK, CSASTAR etc.).
- It provides built-in security as products are designed to help save costs down the road.
- Fixing software vulnerabilities and flaws after production can cost organisations more than 29 times the cost of identifying and fixing during the design phase.
- It protects customers' financial and other sensitive data.



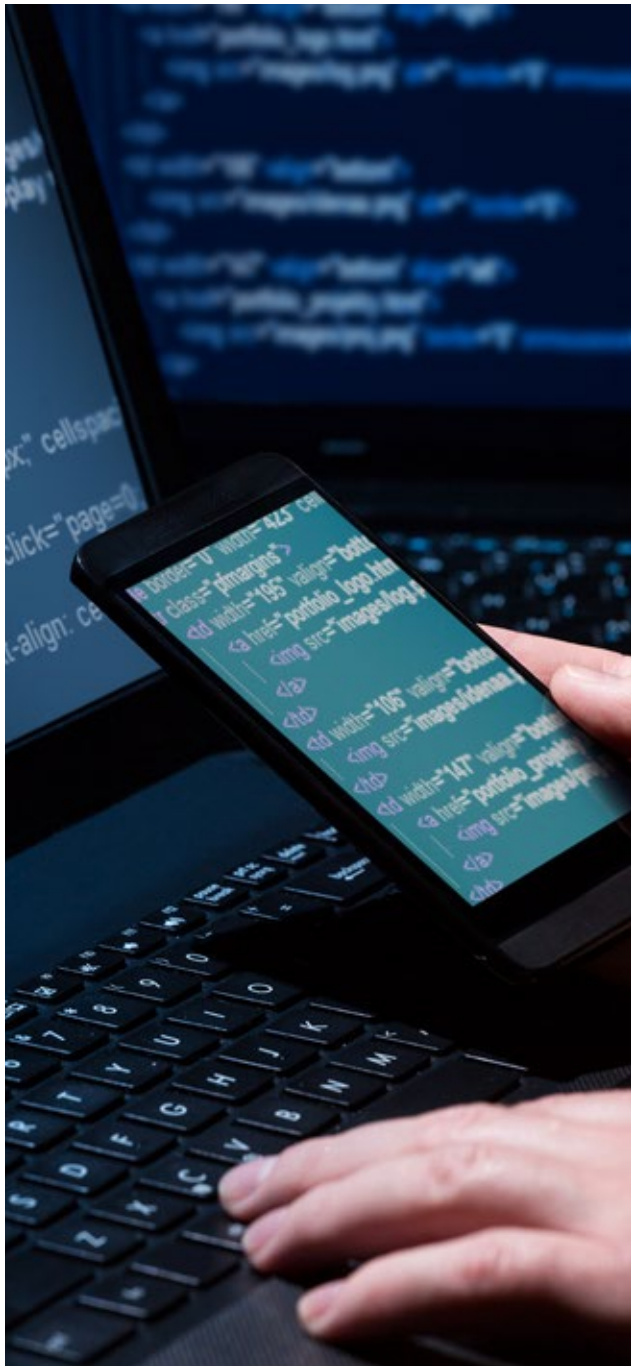
What's included in X-Force Offensive Security Testing?

What's included in Application Penetration Testing?

- It uses a human tester to manually discover and exploit vulnerabilities in the target application to simulate a real-world attack (virtual and on-site manual testing).
- The testing covers various possibilities for intrusion:
  - External threat
  - Insider
  - Malicious user or customer
  - Hacktivist
- It reviews the environment and organisation, including application platform, architecture, frameworks, supporting infrastructure, known security problems or concerns associated with the application, preliminary testing schedule and emergency contact plan.
- Following the Application Penetration Testing, a report of the reflected vulnerabilities will be produced and provided, with consultation to explain the findings and associated risks.

What's included in DevSecOps Service?

- It includes dynamic tool-based unvalidated raw application scanning of the customer's identified targeted application(s) to identify common vulnerabilities (web server configuration flaws, insecure network communication, SQL injection or cross-site scripting etc.)
- It produces a report ("Vulnerability Scan Report") that reflects the identified vulnerabilities.



Why Vodafone?

Vodafone Group is one of the world's largest telecommunications companies and provides a range of services including voice, messaging, data and fixed communications. Vodafone Group has mobile operations in 25 countries, partners with mobile networks in 42 more and fixed broadband operations in 19 markets. As of 31 December 2018, Vodafone Group had approximately 700 million mobile customers and 21 million fixed broadband customers, including all of the customers in Vodafone's joint ventures and associates.

By connecting people, places and things, Vodafone Business helps businesses of all sizes to succeed in a digital world. Our expertise in connectivity, together with our leading IoT platform, multi-cloud solutions, digital services and global scale, delivers the results customers need to help them progress and thrive. We are a trusted partner to businesses of all sectors and public services around the world, and work side by side with them to understand the unique challenges they face and the goals they want to achieve.

For more information, please visit: **www.vodafone.com/business**

Next steps

If you want to discover more about X-Force Offensive Security Testing, please contact your Account Manager.

www.vodafone.com/business

vodafone business