

Security & Penetration Testing Services

**Government-grade assurance.
Business-ready speed.**

**Rated 'Excellent' and Trusted
by Over 1200 Organisations**

CyberLab is trusted by over 1,200 enterprise businesses, government departments, and household names to secure their operations, systems and data.

Our team have decades of experience and take pride in operating at the highest level of the industry – conducting a broad range of government and commercial tests – and always aim to go the extra mile.

Penetration Testing

Common Penetration Testing and IT Health Check Services.



Penetration Testing

Penetration testing -

Is an authorised simulated attack on a computer system, network or web application to identify vulnerabilities that could be exploited.



IT Health Check

IT Health Check -

Also known as a ITHC or pentest, can be used to test an organisation's compliance with security policies, the security awareness of its staff and how effectively it can respond to security threats.



Application Testing

Application Testing -

Gives assurance of the applications security. It tests the application manually for weaknesses in access controls, user permissions and separation, input injection, file upload/download functionality, authorisation and authentication. It can identify weaknesses that may allow an unauthorised user to use the application in a non-intended manner.



Infrastructure Testing

Infrastructure Testing -

This involves conducting penetration testing or vulnerability assessments of external or internal systems and does not normally include application testing.



Cloud Security

Vulnerability Assessments -

Look for known vulnerabilities and report back potential exposures. It is normally an automated scan using a commercial scanning engine tool.

It is different to a penetration test where a human tester uses a variety of different methods to try to exploit and verify any weaknesses.



Vulnerability Assessments

Cloud Security Testing -

Is penetration test or vulnerability assessments of applications, infrastructure or the portal configuration of systems that are hosted within Cloud providers.

Targeting Attack Simulation

Simulated attack testing focused on Red Teaming, Phishing and Social Engineering.



Red Teaming

Red Teaming -

Is scenario-based penetration testing which aids organisations in gaining a clear understanding of the threats they face. Uniquely, Red Teaming allows business stakeholders to measure how effective their controls and processes are at detecting, containing and preventing highly sophisticated cyber attacks.



Phishing Simulation

Phishing Simulation -

Is the process of testing your staff's awareness to electronic phishing email campaigns in a safe and constructive manner.



Social Engineering

Social Engineering -

Is one of the biggest security threats organisations face, as typically human behaviour is the weakest security link in any network. Often the easiest way to breach a company or network is not via externally hacking their website, it is simply via tricking employees to gain access to the building.

Wireless and Mobile Testing

Wireless, mobile and lost device testing.



Wireless Testing

Wireless Testing -

Assesses the configuration and deployment of wireless networks and devices to ensure that only the intended end users can use the network and associated services.



Mobile Testing

Mobile Testing -

Covers many areas such as the device configuration, the management of the device and the applications used on the device.



Application Testing

Lost Device Testing -

This typically includes:
Encryption review – can any data be read from the hard disk, Physical review – can the device be compromised via the USB, CDROM, Firewire or Thunderbolt connections and Mobile or tablet device review – what information can be obtained from the mobile device.

Compliance Testing

Penetration testing to assist with PCI-DSS, ISO 27001 and PSN CoCo compliance.



PCI
DSS

PCI DSS Testing -

The Payment Card Industry Data Security Standard (PCI DSS) version 3.2 requires that regular security testing is conducted. Requirement 11.3 states that penetration testing should be conducted on both external and internal systems to ensure requirements are met.



ISO
27001

ISO 27001 Testing -

The ISO 27001:2013 standards control A.12.6.1 of Annex A requires that penetration testing or vulnerability assessments are conducted. As part of your ISO initial and annual compliance audit, your auditor will require evidence (such as a penetration test report) that you have conducted sufficient checks relating to security vulnerabilities.



PSN

PSN IT Health Check -

The PSN CoCo (Public Sector Networks Code of Connection) require regular annual IT Health Checks to be conducted and submitted for compliance. The ITHC typically involves a sample of the external and internal systems in use.

Build Reviews

Build reviews of operating systems and databases against industry benchmarks.



Build
Reviews

Build Review -

A build review assesses the configuration of the operating system, device configuration and its settings against industry benchmarks.



Database
Reviews

Database Security Review -

A database review assesses the configuration of the database server operating system, the server software and the configuration of the database and its settings against industry benchmarks.



Gold Build
Review

Gold Build Review -

A gold build review involves conducting a software build review of your master template used in group wide deployments.

Network Security

Network device testing, configuration reviews and segregation testing.



Network Security

Network Security Reviews -

A typical network security review consists of a manual review of the running configuration of the device itself to identify any security configuration issues. This is a much more detailed review than a vulnerability scan and can identify misconfigured devices that could leave the network or the management of the device at risk.



VLAN Hopping

VLAN Hopping -

Is the process of testing separation between networks. This is typically conducted between less sensitive networks, such as the internal corporate network and more sensitive networks such as management networks or cardholder data environments (CDE).



Traffic Sniffing

Traffic Sniffing -

Involves capturing traffic at a scheduled time and conducting an analysis on the captured information to ensure that the encryption of data in transit is working as it should be.

Specialist Testing

VoIP phone systems, IoT device testing



VoIP Security

VoIP Security Testing -

In many organisations, video conference units or telephones are placed within meeting rooms or public areas where visitors will have physical access. Testing can identify if the devices can be used to connect to and compromise the internal corporate network.



IoT Security

IoT Security Testing -

Is an essential service to ensure the device or the software used to control the IoT hardware is not vulnerable to security weaknesses that could allow the device to become compromised and data obtained.

Specialist Testing (continued)

Drone Testing and OT / SCADA security.



Drone
Testing



OT / SCADA
Security

Drone Testing System Penetration -

Drone (UAV, UGV) System Penetration Testing is a specialised security assessment designed to evaluate the resilience of your UAV or UGV platform, its communication channels, and the supporting ground-control infrastructure.

SCADA Security -

As SCADA systems often look after critical infrastructure essential for manufacturing or national infrastructure, penetration testing should be performed to ensure no vulnerabilities exist within internal systems, applications and from the Internet.

Capabilities, Accreditations and Frameworks

CyberLab are a CREST approved Penetration Testing, Vulnerability Assessment and a STAR and GBEST Attack Simulation testing company. We are also accredited by the NCSC as a green light company authorised to perform CHECK ITHC assessments for government departments.

We have a highly experienced team of consultants, with 70% holding the highest CREST CCT level infrastructure or web application certifications, with the remainder holding the CREST CRT or the equivalent Tiger QSTM certifications. Our consultants are also CHECK Team Leaders (CTLs) or CHECK Team Members (CTMs) and are approved to conduct government CHECK testing. Additionally, our attack simulation consultants also hold the CREST CSAS and CSAM certifications, allowing us to work on STAR and GBEST attack simulation engagements.

Our team have many decades of experience conducting a broad range of central government, public sector, health care, financial services and commercial testing engagements and always aim to go the extra mile for our customers.



Collectively, our team hold the following credentials:

CREST Certifications	Certified Testers
Practitioner Security Analysts (CPSA)	✓
Registered Penetration Testers (CRT)	✓
Certified Web Application Testers (CCT APP)	✓
Certified Infrastructure Testers (CCT INF)	✓
Certified Simulated Attack Specialist (CSAS)	✓
Certified Simulated Attack Manager (CSAM)	✓
CHECK Team Member (CTM)	✓
CHECK Team Leader (CTL) - Infrastructure	✓
CHECK Team Leader (CTL) - Applications	✓

Our information security controls, and quality management systems meet and exceed the high standards set by the ISO 27001:2013 and ISO9001:2015 standards. We are also Cyber Essentials Plus certified.

We are an approved HM Government supplier and part of the Crown Commercial Supplier G-Cloud 15 and Cyber Security Services 3 frameworks, as well as an assured service provider of NCSC approved security testing services.



CyberLab is Your Trusted Security Partner.

CyberLab is a CREST, CHECK and NCSC accredited cyber consultancy and managed service provider, trusted by over 1,200 organisations.

With over 30 years of experience in the industry, we deliver expert led penetration testing, compliance, and strategic support.

Protecting the Nation, Business and People.

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