ARANCIA

UNCOVER AND REMEDIATE YOUR SECURITY GAPS

# PENETRATION TESTING SERVICES

## ARANCIA'S PENETRATION TESTING SERVICES:

Arancia's penetration testing services empower security leaders to proactively identify and address vulnerabilities across your critical infrastructure, web applications, APIs, mobile apps, and OT/IoT systems. Our team of certified professionals leverages industry-leading methodologies and advanced tools to simulate real-world attacks, exposing weaknesses before malicious actors can exploit them.

## WHY PENETRATION TESTING IS CRUCIAL

In today's ever-evolving threat landscape, a single security breach can have devastating consequences. Penetration testing provides a critical line of defense by:

### PROACTIVE DEFENSE

Penetration testing helps identify and remediate vulnerabilities before they can be exploited by malicious actors.

### REGULATORY COMPLIANCE

Regular testing ensures compliance with industry standards and regulations, protecting your business from legal and financial penalties.

### RISK MITIGATION

By understanding potential threats, you can implement effective countermeasures, minimizing the risk of data breaches and cyber-attacks.

## WHY CHOOSE US?

### Threat-Focused Approach

We utilize a robust threat modeling process to tailor testing scenarios to the specific risks facing your organization.

### Meticulous Process

Our structured approach ensures a comprehensive assessment, encompassing planning, reconnaissance, scanning, exploitation, post-exploitation, and detailed reporting.

### Industry Expertise

Our team holds industry-recognized certifications and possesses in-depth knowledge of the latest vulnerabilities and attack vectors.

### Advanced Techniques

We employ cutting-edge tools and methodologies to deliver thorough and accurate assessments.

## OUR APPROACH: THREAT MODELLING

1. **SCOPE** — We define the testing scope to ensure relevance and applicability to your systems and applications.
2. **REAL-WORLD SCENARIOS** — We evaluate potential threats based on realistic scenarios related to your environment.
3. **LIMITATIONS** — We consider barriers such as firewalls and other security measures that may impact threat exploitation.
4. **MOTIVATIONS** — We assess potential threat motivations, including financial gain and access to sensitive data.
5. **COMMON THREAT EXAMPLES** — Internal employees, external cybercriminals, untrusted visitors, outsourced employees, and more.

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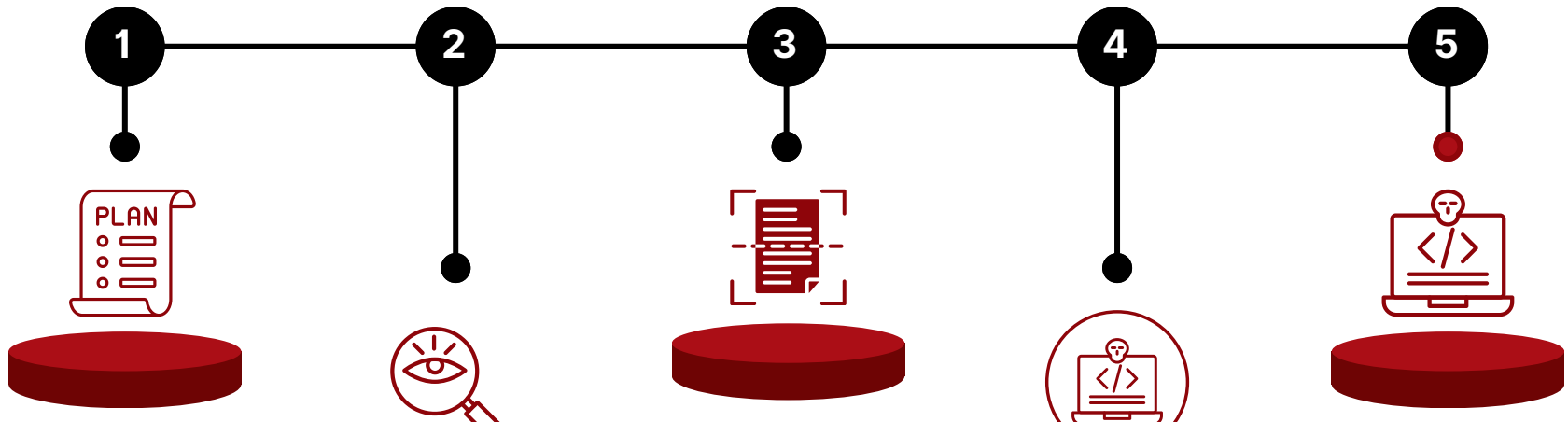
# PEN TEST PROCESS




**Planning**
Define threats, analyze scope, and develop an attack strategy.

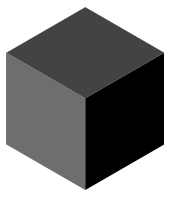
**Reconnaissance**
Gather information from public resources, analyze targets, and identify sensitive information.

**Scanning**
Perform port scanning, list services, and analyze vulnerabilities.

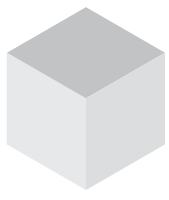
**Exploitation**
Exploit identified vulnerabilities to assess impact.

**Post-Exploitation**
Identify post-action impacts, consolidate results, and prepare detailed reports.

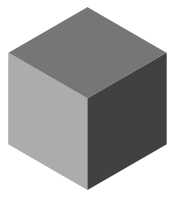
# TYPES OF TESTING OFFERED:



**Blackbox Testing**
Performing a security test without prior knowledge of the internal workings of the target system, representing an unauthenticated test.



**Whitebox Testing**
Conducting an internal assessment with complete knowledge of the system's architecture and source code, representing an authenticated test.



**Greybox Testing**
Conducting a security test with partial knowledge of the target system, focusing on specific areas of interest, representing an authenticated test.

# PENETRATION TESTING SERVICES OFFERED:

- **Web Application Penetration Testing:** Our skilled team identifies and exploits vulnerabilities in web applications using industry-leading tools and manual testing techniques.
    - **Common Vulnerabilities Tested Based on OWASP Top 10 Items like:** Broken Access Control, Cryptographic Failures, Injection, Insecure Design, Security Misconfiguration, Vulnerable and Outdated Components, Identification and Authentication Failures, Software and Data Integrity Failures, Security Logging and Monitoring Failures, Server-Side Request Forgery (SSRF).
- **Network Penetration Testing:** Our experts utilize advanced tools to discover and exploit weaknesses in your network infrastructure and security controls.
    - **Common Vulnerabilities Tested:** Open ports, Weak passwords, Misconfigured firewalls, Insecure remote access, Unsecured wireless networks, and more.
- **API Penetration Testing:** We assess the security of your APIs, identifying vulnerabilities that could lead to unauthorized access or data breaches.
- **Mobile Application Penetration Testing:** Our team evaluates your mobile applications for vulnerabilities specific to the Android and iOS platforms.
- **Operational Technology (OT) & Internet of Things (IoT) Penetration Testing:** We assess the security of your OT/IoT systems to ensure they are resilient against cyberattacks.
- **SAST/DAST:** We provide Static Application Security Testing (SAST) and Dynamic Application Security Testing (DAST) to identify vulnerabilities at different stages of your software development lifecycle.
- **Code Reviews:** Our team conducts in-depth code reviews to uncover security flaws, ensuring your applications are robust and secure.

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**Protect Your Organization, Proactively.**
Contact Arancia today to discuss your penetration testing needs and gain a comprehensive understanding of your security posture.

www.arancia.ca