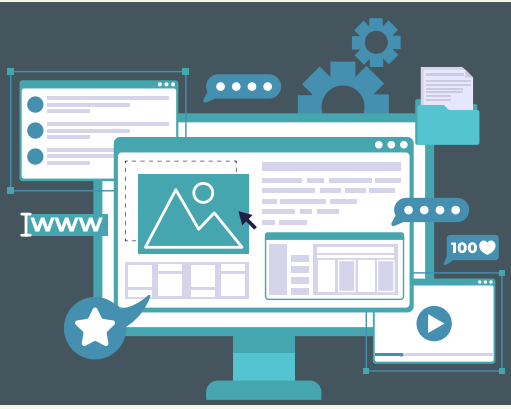
CYPRO AB

IOT PENETRATION TESTING



With the increasing proliferation of IoT devices, security vulnerabilities have also grown, leaving organizations exposed to potential cyber threats.

IoT Pentesting provides a comprehensive assessment of your IoT ecosystem, identifying weaknesses and fortifying your defenses against potential attackers.

KEY EXPLOITED AREAS

We gather comprehensive information then evaluates intentional and unintentional exposures in your IoT system, focusing on:

- **Unintended Points of Entry**
- **Weaknesses and Vulnerabilities**
- **Authentication Evaluation**

WHAT ARE THE BENEFITS?

- **Identifying Vulnerabilities:** Pentesting allows us to thoroughly assess IoT devices and their interactions with networks, identify vulnerabilities that malicious actors might exploit.
- **Risk Mitigation:** We can help you mitigate potential risks before they escalate into full-blown security breaches.
- **Regulatory Compliance:** to avoids potential legal and financial repercussions.
- **Enhanced Incident Response Preparedness:** through simulated attacks and comprehensive testing, we help you better prepared to respond effectively to real-world cyber threats.
- **Competitive Advantage:** A strong security posture can be a key differentiator for your organization.

HOW WE DO IT?

We gather comprehensive information about your IoT environment through interviews and documentation analysis and then:

- Identifying any unintended access points that could be exploited by cybercriminals.
- Scrutinizing services and applications for potential security gaps.
- Assessing the strength of authentication mechanisms in your IoT devices.

With our innovative approach, we simulate tailored attack scenarios to uncover hidden security blind spots.

ABOUT US

Cypro AB will help you to comply with directives as NIS2 and standards as ISO 27001 with the mission to stay compliant and secure over time. Our top-tier global security assessment team includes experts specializing in red teaming and information security offers unparalleled insight into potential vulnerabilities.

A state-of-the-art Security Operations Center (SOC) enables us to deliver the highest level of security services, actively monitoring and responding to possible threats.

CONTACT US

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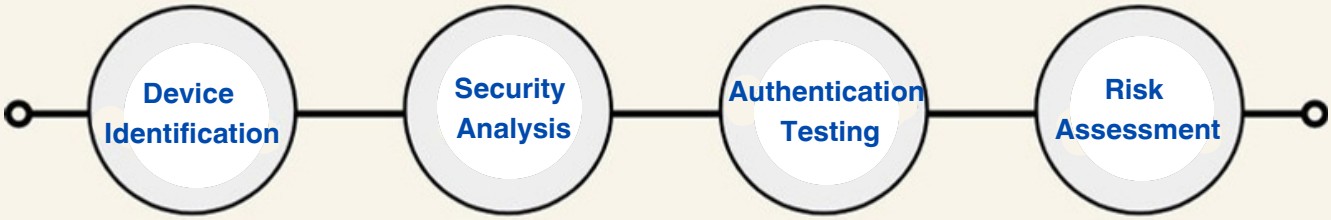
CYPRO AB

A Qualified and Trusted Partner in Cyber Security

METHODOLOGY



Device Identification

1. **Identify the types of IoT devices** present in the environment, including their make, model, firmware version, and communication protocols.

2. **Enumerate network** components, including routers, gateways, and IoT hubs

Security Analysis

3. **Analyze potential threats**, such as unauthorized access, data leakage, device manipulation, and remote control.

4. **Consider the potential impact** of compromised devices.

5. **Conduct a thorough analysis** of the IoT device's firmware and software

6. **Use static and dynamic analysis** techniques to identify security flaws

7. **Capture and analyze network** traffic between IoT devices, gateways, and servers

8. **Assess the physical security** of IoT devices

9. **Evaluate device access controls** and the potential for unauthorized tampering.

Authentication Testing

10. **Authentication and Authorization:** Test authentication mechanisms, such as default credentials, weak passwords, and lack of multifactor authentication.

11. **Verify authorization controls** to ensure that users have appropriate permissions for device access.

Risk Assessment

12. **Assess the overall security posture** of the IoT environment and identify risks.

13. **Evaluate the potential business and operational impact** of security vulnerabilities and breaches.

WHAT YOU'LL RECEIVE
Scope meeting
Initiation Activities
Implementation of External Security Audit
A prioritized list of vulnerabilities and actionable recommendations to strengthen your IoT security.
Follow-up meeting for further action

READY TO BOOST YOUR CYBER SECURITY

Start by reaching out to your trusted Cypro customer contact or connecting with our experienced experts. Together, we embark on a transformative path to fortify your defenses, ensuring your valuable assets remain safe from harm.

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Initiate Your Defense: Connect with Cypro's Experts Today!

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