







# **Potential challenges and risks**

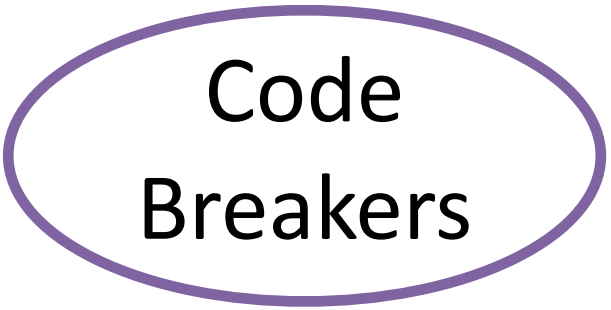
- Restricted permissions on machines may limit the tool's ability to scan all areas of the system.
- AI-powered anomaly detection could flag non-critical issues, leading to unnecessary alerts.
- Scanning may consume significant system resources on low-end devices, impacting performance.
- Accessing and scanning sensitive system data could raise potential privacy and compliance issues.
- Relying on outdated databases may result in missing recent vulnerabilities or false security assessments.
- Storing scan logs on blockchain without proper encryption could expose sensitive system information.

# **Strategies for overcoming these challenges**

- **False Positives:** Regularly refine AI models using real-world data and feedback to minimize incorrect alerts.
- **Performance:** Schedule scans during system idle times or run in small batches to reduce resource impact on low-end systems.
- **Privacy Concerns:** Ensure read-only operations with encryption and data masking to safeguard sensitive information.
- **Outdated Vulnerability Data:** Automate updates from trusted sources to keep vulnerability data current and relevant.
- **Blockchain Data Security:** Implement encryption for blockchain-stored logs to ensure tamper-proof records while protecting sensitive data.



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# **Analysis of the feasibility of the idea**

## **•Technological:**

- The solution leverages proven tools like WMI, PowerShell, and vulnerability databases (e.g., ExploitDB).
- AI/ML for anomaly detection is supported by existing libraries, making real-time vulnerability assessments achievable.
- Additionally, blockchain technology ensures secure and immutable logging of scan results, preventing tampering or unauthorized modifications.

## **•Operational:**

- The agent-less design simplifies deployment across Windows 10/11, reducing overhead and eliminating the need for additional software.
- The solution integrates smoothly with AV/EDR systems and scales easily for both individual and enterprise use.
- Blockchain enhances security by ensuring tamper-proof logs, adding an extra layer of trust and data integrity.







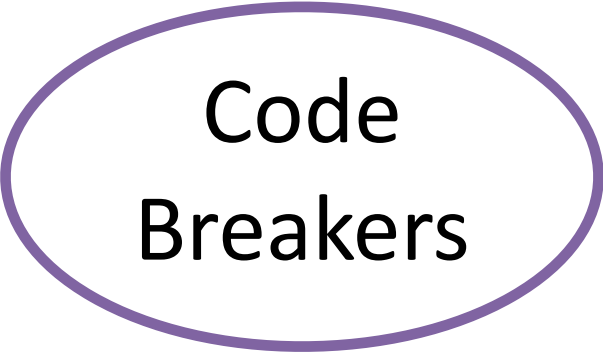
INDEPENDENTS

***Potential impact on the target audience***





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# **Benefits of the solution (social, economic, environmental, etc.)**

- Social Benefits:** Enhances the security of personal and organizational data, reducing the likelihood of data breaches and protecting user privacy.
- Economic Benefits:** Helps organizations avoid the high costs associated with data breaches, ransomware attacks, and other security incidents by identifying vulnerabilities early.
- Environmental Benefits:** The agent-less nature of the solution ensures minimal system resource consumption, reducing energy usage and system strain, contributing to greener IT practices.

