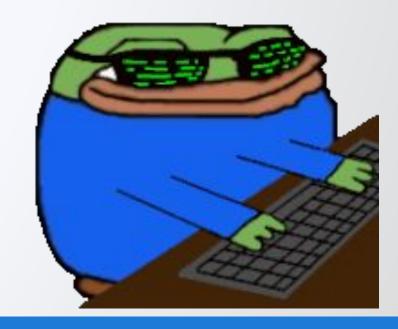
Exploiting Business Logic Flaws:

The Hidden Weaknesses That Hackers Love

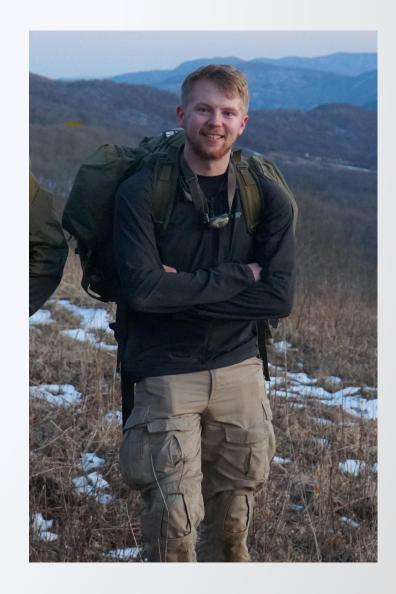


Presentation by Chandler Johnson



whoami

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Agenda

- What is Business Logic?
- Causes of Business Logic Flaws
- Exploiting Business Logic Flaws
- Modern Security Tooling Ineffective
- Preventing Vulnerabilities
- Questions



What is Business Logic?

The term "business logic" simply refers to the set of rules that define how the application operates.

As these rules aren't always directly related to a business, the associated vulnerabilities are also known as "application logic vulnerabilities" or simple "logic flaws".

OWASP Definition:

OWASP: "business logic vulnerabilities are ways of using the legitimate processing flow of an application in a way that results in a negative consequence to the organization."

NVD Categorization: <u>CWE-840: Business Logic Errors</u>



Causes of Business Logic Flaws

Primary Causes

- Client-Side Validation Reliance
- Improper Workflow Validation
- Improper Data Validation
- Flawed User Behavior Assumptions



https://portswigger.net/web-security/logic-flaws

Exploitation Research - Bug Bounty Reports

- HackerOne: https://hackerone.com/hacktivity/overview
- Real world reports.
- POC (Proof-of-Concept) often supplied on disclosed vulnerabilities.
- Sophisticated techniques frequently presented.









Modern Security Tooling Ineffective

invicti





insightVM











Preventing Business Logic Flaws



