

## #3 Excessive Data Exposure

Finding secrets, passwords, API tokens

# Excessive Data Exposure

Definition: Exposure of all object properties containing individual sensitivity

Examples: Responses showing secrets, passwords, access tokens

### Mobile Health Apps Systematically Expose PII and PHI Through APIs, New Findings from Knight Ink and Approov Show

- "Of the 30 popular apps Knight Ink tested, 77 percent contained hardcoded API keys, some of which don't expire, and seven percent contained hardcoded usernames and passwords."
- https://www.bloomberg.com/press-releases/2021-02-09/mobile-health-apps-systematically-expose-pii-and-phi-through-apis-new-findings-from-knight-ink-and-approov-show

### **Excessive Data Exposure**

### Exercise 3-1: Find the Data Exposure Issues

- Unzip the Exercise1\_Files zip file
- Open each file in Notepad++ and try to identify the excessive data exposure issue

Name

AndroidManifest.xml
info.plist

#### Code 39 Bytes

### Hard coded API Keys in Source Code

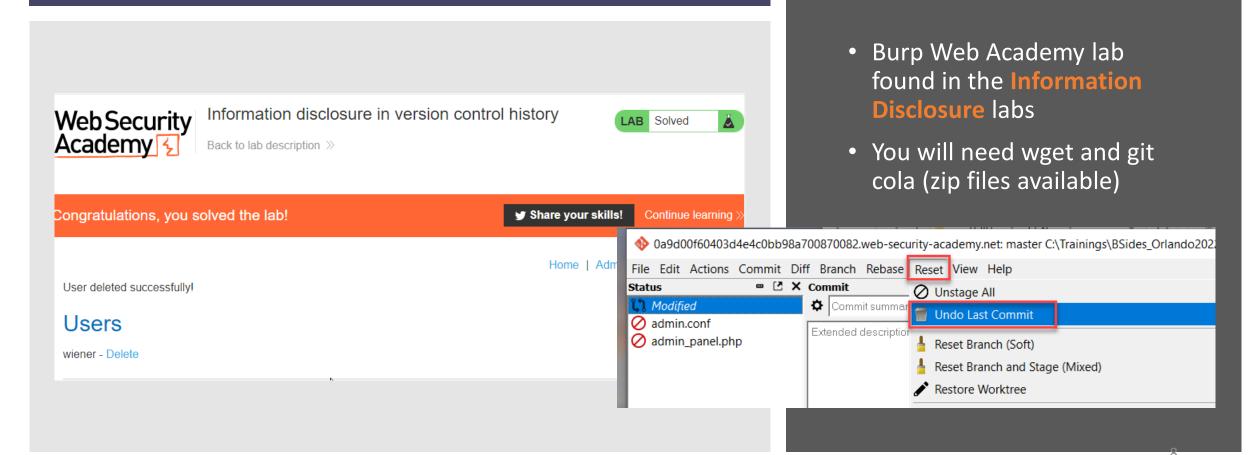
- If software is open-sourced, check github
- Check config files when reverse engineering mobile apps
- Attempt path traversal to try to view/download config files

### Bug Bounty related to lab



 https://medium.com/@levshm elevv/10-000-bounty-forexposed-git-to-rce-304c7e1f54

## Exercise 3-2: Information Disclosure in Version Control History



### Exercise 3-3: Sensitive Data Exposure

### Lab: User ID controlled by request parameter with data leakage in redirect











#### APPRENTICE

This lab contains an access control vulnerability where sensitive information is leaked in the body of a redirect response.

To solve the lab, obtain the API key for the user carlos and submit it as the solution.