Beta Presentation
Android Vulnerability Database
The Capstone Experience
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Project Overview

• Compile Android Security Bulletin and National Vulnerability Database vulnerabilities into one place
• Enable OEMs to identify high priority security vulnerabilities
• Easy to use web-application utilizing our API to allow users to query vulnerabilities
System Architecture

Google Cloud Services

Google Cloud Storage
MySQL Database Instance
API
Flask
SQLAlchemy
Deploy
Web App Frontend
Deploy
ETL Pipeline
NVD Data Extraction
ASB Data Extraction
Deploy
Cloud Build
Trigger build
Repository

Client

Android Security Bulletin

National Vulnerability Database

ETL Pipeline

The Capstone Experience
Team Google Beta Presentation
Home Page
Query Page
Dashboard Page
Vulnerability Page
What’s left to do?

• Stretch Goals
  ▪ Pixel Security Bulletin
  ▪ Reddit/Press pickup
  ▪ Change Log

• Other Tasks
  ▪ UI/UX improvements
  ▪ Small Bug fixing
  ▪ Activate Scheduling