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ANVIL
SECURE

Executive Summary

Anvil Secure conducted a security review and penetration test on Tools for Humanity's Backup Service and integration with Turnkey, focusing on the mobile applications and associated web service. The engagement was performed by two (2) engineers over a period of 16 person-days, with the initial assessment taking place from June 18-July 1, 2025 (14 person-days) and a follow up-assessment from July 23-24, 2025 (2 person-days).

In-scope assets:

- Tools For Humanity World App iOS Application
- Tools For Humanity World App Android Application
- Tools For Humanity Backup Web Service (Written by Tools for Humanity, hosted on 3rd party infrastructure)

Out-of-scope assets:

- Application Flows not related to the online backups

Tools for Humanity provided access to a staging environment and shared relevant documentation, including design and threat models, as well as source code.

A total of one (1) finding was identified, rated informational in severity. This risk was related to the usage and invalidation of challenge tokens. While this introduces a theoretical risk of exposing operations to external attacks, the impact is limited due to the requirements of a valid signature within the authorization context.

Overall, Tools for Humanity demonstrated a strong security posture in the development of their Backup Service. While Anvil did not identify any major security issues, we recommend performing regular security testing of any upcoming features or iterations of the Backup Service to maintain this high standard.