

Exercise: Authentication

Midnight Engineering are currently adapting their 'Midnight Version Manager' tool for instrument technicians at ACME Water.

Because ACME Water is concerned that instrument technicians will have problems recalling or entering another set of credentials, they are considering the introduction of a biometric authentication mechanism. This will allow MVM credentials (usernames and passwords) for instrument technicians to be stored, together with their fingerprint, and allow technicians to 'login' with their fingerprints.

Questions

1. What are the potential cost and benefit of this solution for ACME Water and instrument technicians?
2. Identify different types of attack on MVM based on biometric authentication . What countermeasures would you put in place?
3. How suitable are fingerprints for use in this particular scenario? Can you suggest a more suitable biometric?