

SECURITY AUDIT CHECKLIST



Zikhona secures systems and designs futures.

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IT Security: Defense Against the Digital Dark Arts

Focus Areas: Encryption & Authentication | Firewalls | Security Best Practices

PROJECT OVERVIEW

This project focuses on performing a basic system security audit to identify, strengthen, and maintain essential protection mechanisms within a personal or organizational IT environment. The audit covers password security, firewall protection, software updates, encryption, and access control.

Picture 1: System's main security dashboard .

Privacy & security > Windows Security

The screenshot shows the Windows Security dashboard under the 'Windows Security' section of the Control Panel. At the top, it says 'Windows Security is your home to view and manage the security and health of your device.' and has a 'Open Windows Security' button. Below this, there's a section titled 'Protection areas' with a list of seven items, each with a status icon and a link to 'View details'.

Protection Area	Status	Action
Virus & threat protection	No actions needed.	View details
Account protection	No actions needed.	View details
Firewall & network protection	No actions needed.	View details
App & browser control	Actions recommended.	View details
Device security	No actions needed.	View details
Device performance & health	Reports on the health of your device.	View details
Family options	Manage how your family uses their devices.	View details

Password Security Audit

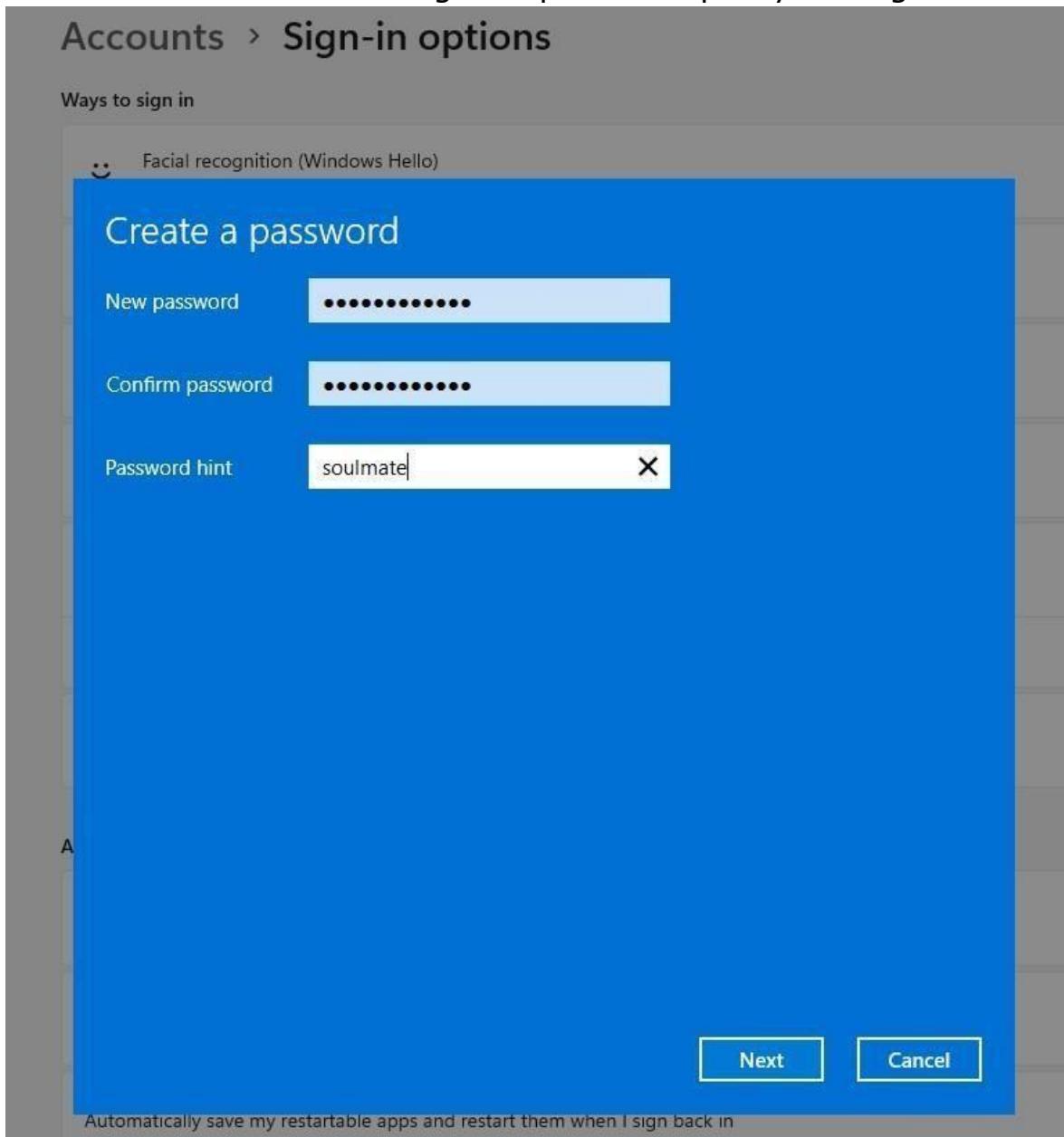
Objective: Assess password strength and update weak or reused credentials.

Actions Taken:

- Replaced short passwords with passphrases of 12+ characters combining uppercase, lowercase, symbols, and numbers.
- Enabled Two-Factor Authentication (2FA) on critical accounts (email, cloud storage, admin login).
- Stored credentials securely using a password manager.

Outcome: Improved credential integrity and reduced risk of brute-force attacks.

Picture 2: Password manager or password policy settings



Firewall Configuration Review

Objective: Verify firewall activity and confirm it's filtering inbound and outbound traffic.

Actions Taken:

- Ensured Windows Defender Firewall is active.
- Created custom rules to block unused ports.
- Assessed connection restrictions for external traffic.

Outcome: Enhanced perimeter defense and minimized exposure to external threats.

Picture 3: Firewall settings showing 'Firewall is ON' for all network profiles.

The screenshot shows the Windows Security interface. On the left, a sidebar lists various security categories: Home, Virus & threat protection, Account protection, Firewall & network protection (which is selected and highlighted in blue), App & browser control, Device security, Device performance & health, Family options, and Protection history. The main content area is titled 'Firewall & network protection' and describes who and what can access your networks. It shows three network profiles: 'Domain network' (status: No action needed), 'Private network' (status: No action needed), and 'Public network' (status: No action needed). Below each profile are five links: 'Allow an app through firewall', 'Network and Internet troubleshooter', 'Firewall notification settings', 'Advanced settings', and 'Restore firewalls to default'. The 'Domain network' section also includes a link to 'Who can change my firewall settings'.

Software & System Updates

Objective: Ensure systems and applications are fully updated.

Actions Taken:

- Performed full Windows Update and browser patches.
- Enabled automatic updates for continued protection.

Outcome: Reduced vulnerability exposure and improved system patch management.

Picture 4: Screenshot of system update status.



Antivirus & Malware Protection

Objective: Verify antivirus software is updated and scanning regularly.

Actions Taken:

- Confirmed real-time protection is enabled.
- Completed a full system scan (no threats detected).
- Scheduled weekly automatic scans.

Outcome: Maintains defense against malware and ransomware.

Picture 5: Antivirus dashboard showing scan results.

Windows Security

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Home

- Virus & threat protection**
- Account protection
- Firewall & network protection
- App & browser control
- Device security
- Device performance & health
- Family options
- Protection history

🛡 Virus & threat protection

Protection for your device against threats.

McAfee

McAfee is turned on.

Current threats

No actions needed.

Protection settings

No actions needed.

Protection updates

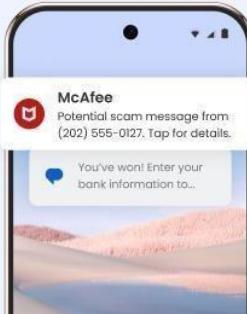
No actions needed.

[Open app](#)

Avoid texts that aren't safe

Have risky texts flagged automatically.

[Block text scams](#)



Device status ⓘ

Protecting you 24x7

Antivirus on
Scanning files in real-time
Last scan: 82 days ago

Advanced Firewall on
Blocking risky connections

Shortcuts

Scam Detector New

We'll help keep you safe from text, email, and video scams.

[Start now >](#)

Secure VPN (6)

Protection is off

[VPN settings >](#)

Antivirus

0 threats found
Last scan: 82 days ago

[Review threats >](#)

Tracker Remover

Delete files that track web activity.

[Run scan >](#)

5. Encryption & Data Protection

Objective: Confirm encryption is active for sensitive data.

Actions Taken:

- Verified disk encryption (BitLocker/File Vault) is active.
- Ensured HTTPS/TLS for secure communication.
- Recommended encryption for backup drives.

Outcome: Improved data confidentiality and protection from thieves.

Picture 6: Screenshot of encryption settings.



6. User Access Control Review

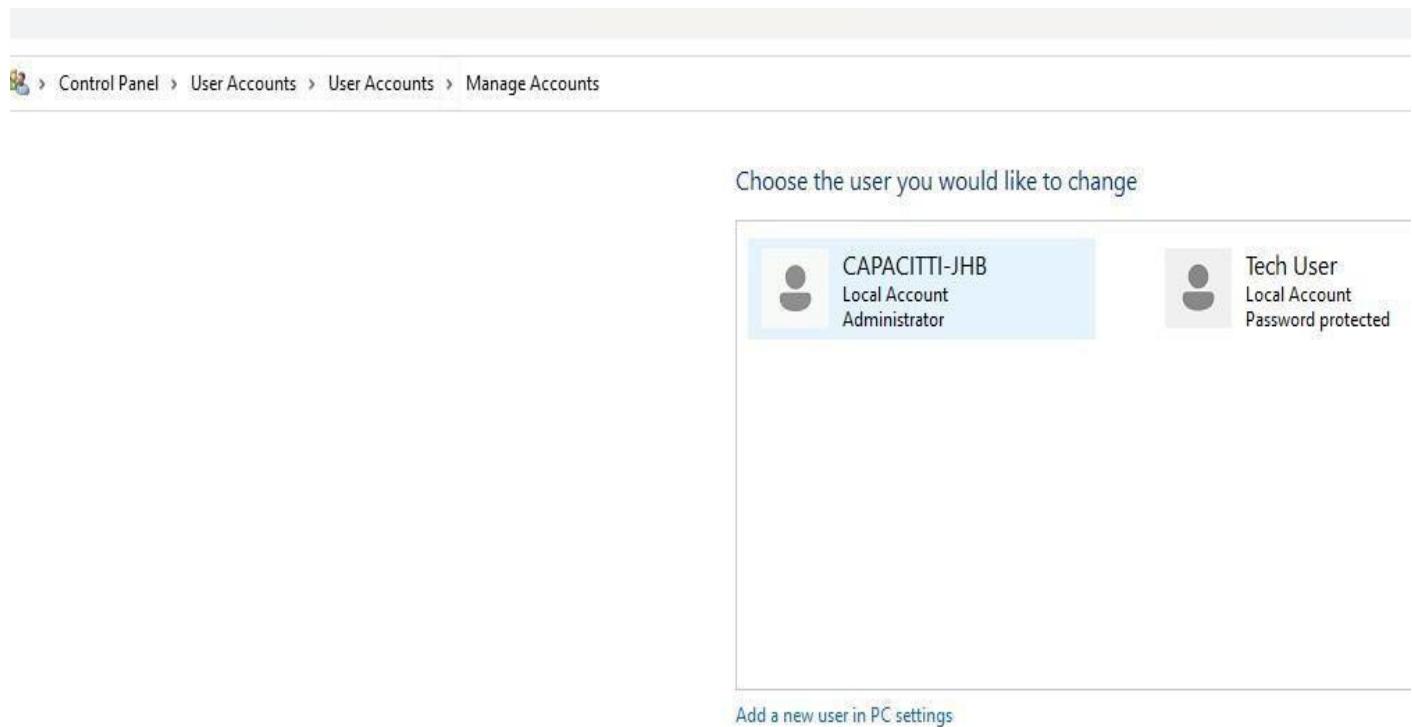
Objective: Review user permissions and minimize admin accounts.

Actions Taken:

- Disabled unused accounts.
- Converted admin accounts to standard users.
- Applied least privilege principle for daily operations.

Outcome: Reduced insider threat potential and unauthorized configuration risks.

Picture 7: User accounts list showing limited admin access.



■ SUMMARY OF SECURITY IMPROVEMENTS

■ Area	■ Status	■ Key Improvement
Passwords	■ Strengthened	Introduction: MFA & password manager
Firewall	■ Active	Custom rules for better control
	■ Automated	
Updates		Scheduled patches weekly
Antivirus	■ Up to Date	Real-time scanning enabled
Encryption	■ Enabled	Disk & communication encryption verified
Access Control	■ Tightened	Reduced admin privileges

REFLECTION & LEARNING

This audit demonstrated that cybersecurity relies on multiple layers of defense — from strong authentication to initiative-taking maintenance. Continuous vigilance, timely updates, and awareness are key to maintaining resilience against modern threats. Combining technical controls with human behavior forms the foundation of robust digital protection.

CONCLUSION

Security is a moving target — staying safe means staying initiative-taking. Regular audits, updates, and security awareness are essential steps toward building a sustainable cybersecurity culture.