

SECURITY AUDIT CHECKLIST



Zikhona secures systems and designs futures.

Contents

PROJECT OVERVIEW	3
Password Security Audit	4
Firewall Configuration Review	5
Software & System Updates	6
Antivirus & Malware Protection	7
■ 5. Encryption & Data Protection	9
■ 6. User Access Control Review	10
■ SUMMARY OF SECURITY IMPROVEMENTS	11
REFLECTION & LEARNING	11
CONCLUSION	12

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 .



Password Security Audit

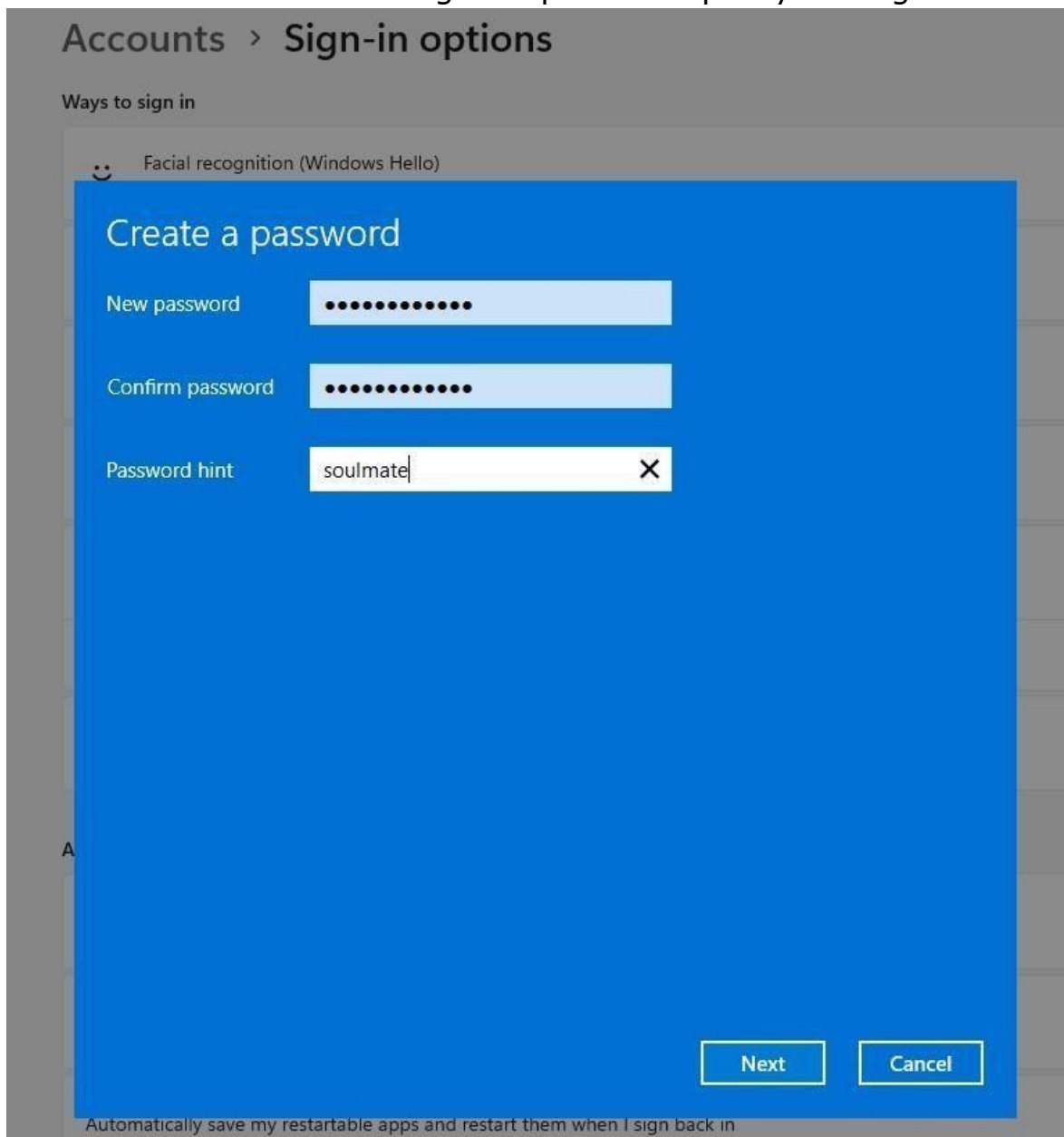
Objective: Assess password strength and update weak or reused credentials.

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



The image shows a Windows 'Create a password' dialog box. At the top, it says 'Accounts > Sign-in options'. Below that, it says 'Ways to sign in' and 'Facial recognition (Windows Hello)'. The main title is 'Create a password'. There are three input fields: 'New password' with a masked password of 10 dots, 'Confirm password' with a masked password of 10 dots, and 'Password hint' with the text 'soulmate' and a clear button (X). At the bottom right, there are 'Next' and 'Cancel' buttons. At the bottom left, there is a checkbox labeled 'Automatically save my restartable apps and restart them when I sign back in'.

Firewall Configuration Review

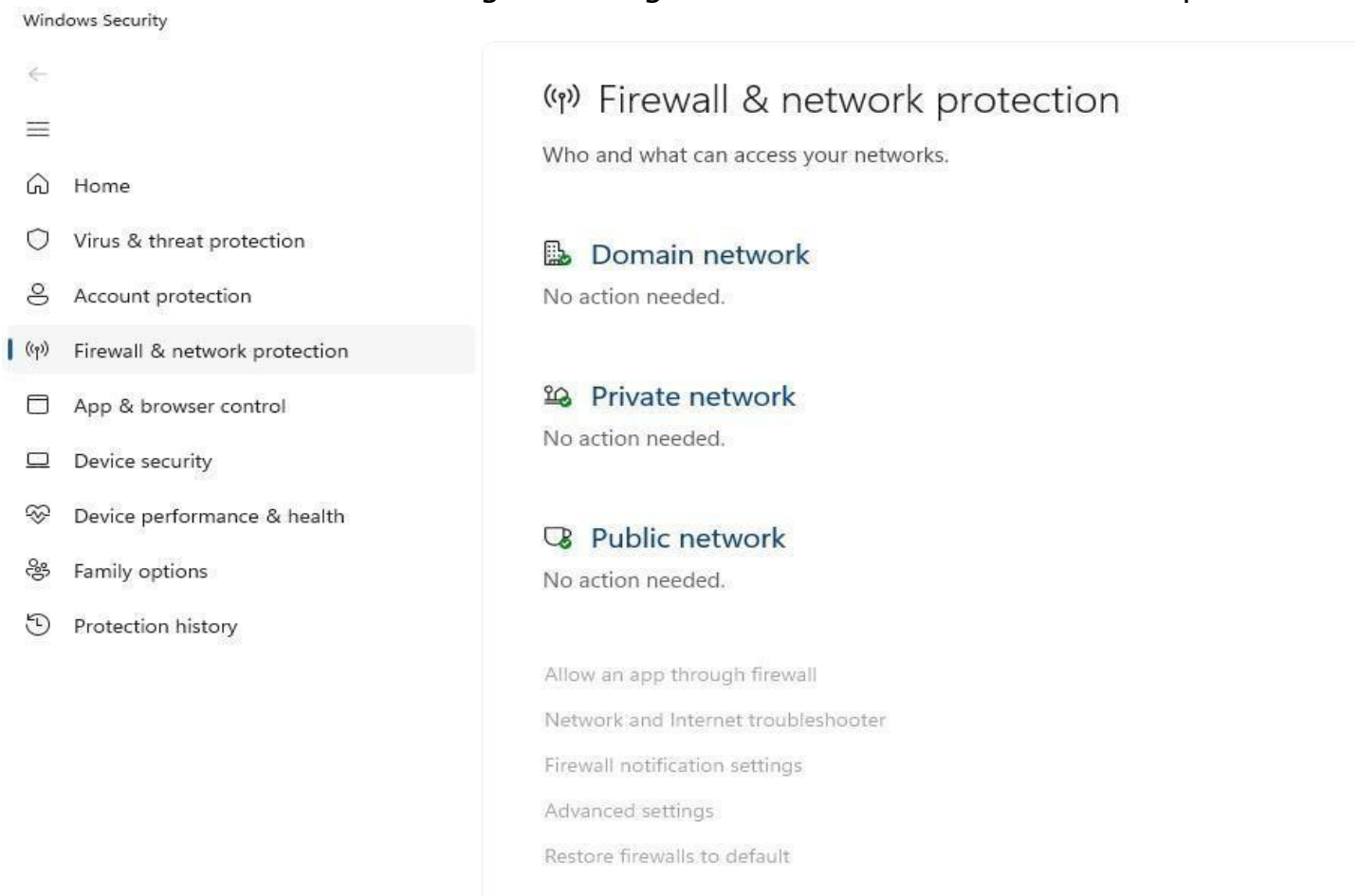
Objective: Verify firewall activity and confirm it's filtering inbound and outbound traffic.

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.



Software & System Updates

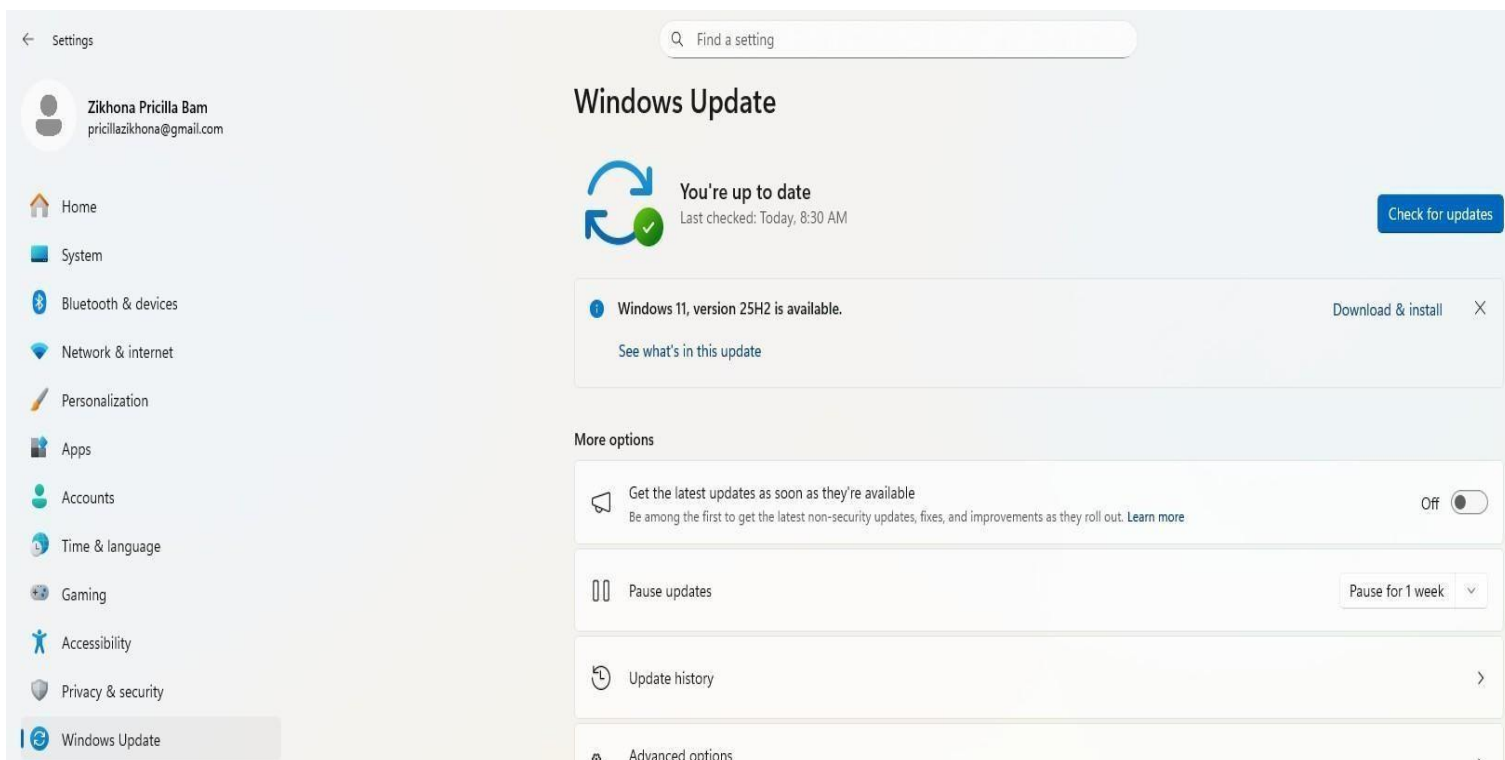
Objective: Ensure systems and applications are fully updated.

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.



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

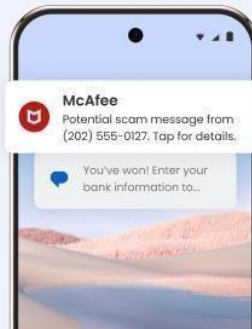
✓ No actions needed.

[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



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

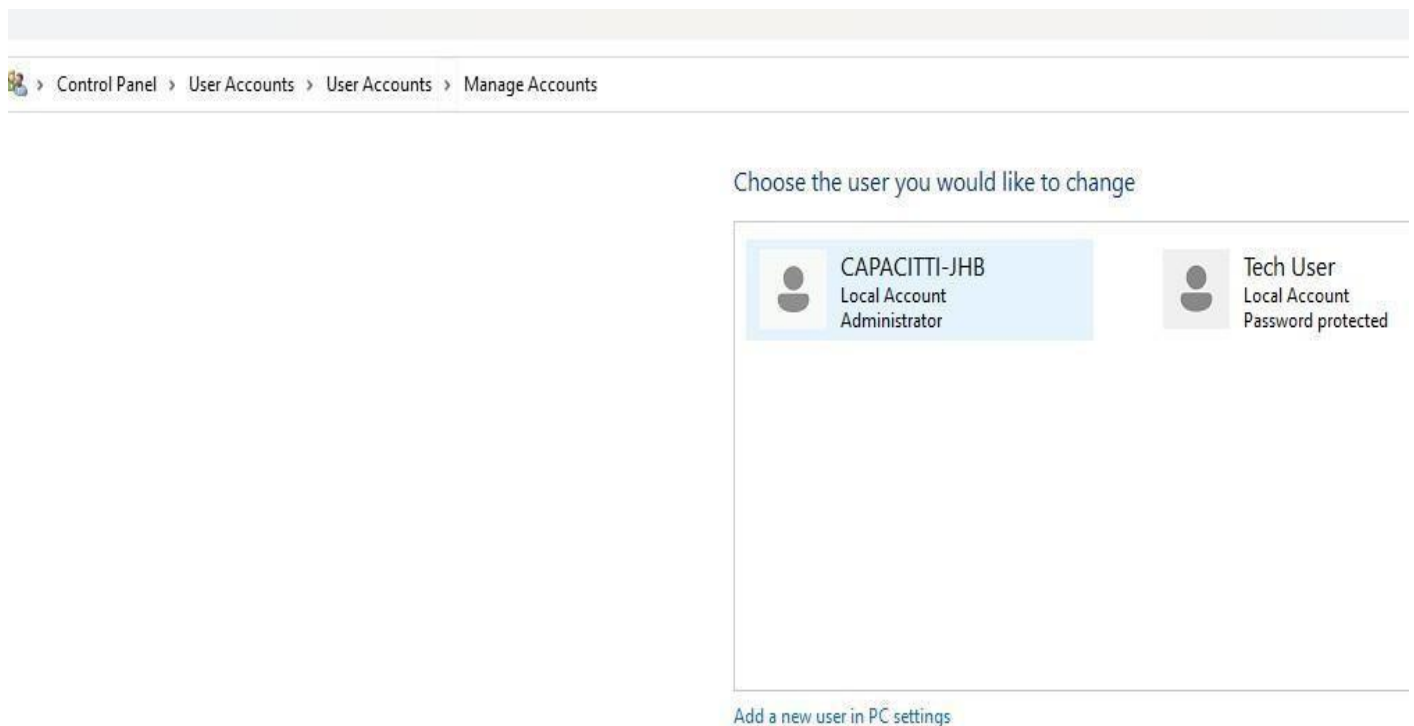
Objective: Review user permissions and minimize admin accounts.

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	Scheduled patches weekly
Updates		
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.