

# Password Policy & Compliance Checklist

*(Aligned with ISO/IEC 27001, SOC 2, and NIST SP 800-63B)*

**Prepared by.....**

**Mizanur Rahman Pranto**

[LinkedIn](#) | [Email](#)

All images and illustrations were created using AI tools.

## Table of Contents

<b>Password Policy &amp; Compliance Checklist .....</b>	<b>1</b>
<i>(Aligned with ISO/IEC 27001, SOC 2, and NIST SP 800-63B).....</i>	<i>1</i>
Prepared by.....	1
Mizanur Rahman Pranto .....	1
LinkedIn   Email .....	1
<b>PASSWORD POLICY .....</b>	<b>3</b>
<i>(Aligned with ISO/IEC 27001 : 2022 Controls A.5.15, A.5.17   SOC 2 CC6.1 – CC6.2   NIST SP 800-63B) .</i>	<i>3</i>
1. Purpose .....	3
2. Scope.....	4
3. Objectives.....	4
4. Policy Statement .....	4
5. Roles and Responsibilities .....	4
6. Password Requirements .....	5
7. Password Protection.....	6
8. Authentication Controls .....	7
9. Administrative Accounts and Privileged Access.....	8
10. Monitoring and Auditing.....	8
11. User Responsibilities .....	8
12. Policy Enforcement .....	9
13. Exceptions .....	9
14. References and Standards.....	9
15. Revision History.....	9
<b>PASSWORD POLICY COMPLIANCE CHECKLIST.....</b>	<b>10</b>
<i>(ISO 27001, SOC 2, NIST SP 800-63B Aligned) .....</i>	<i>10</i>
Table Format .....	10
1. General Controls .....	10
2. Password Creation & Complexity Requirements .....	11
3. Password Storage & Protection .....	12
4. Authentication & Access Control.....	12
5. Privileged Account Management .....	13
6. Monitoring & Logging .....	13
7. User Training & Awareness .....	14
8. Policy Review & Updates.....	14
Notes for Use.....	15

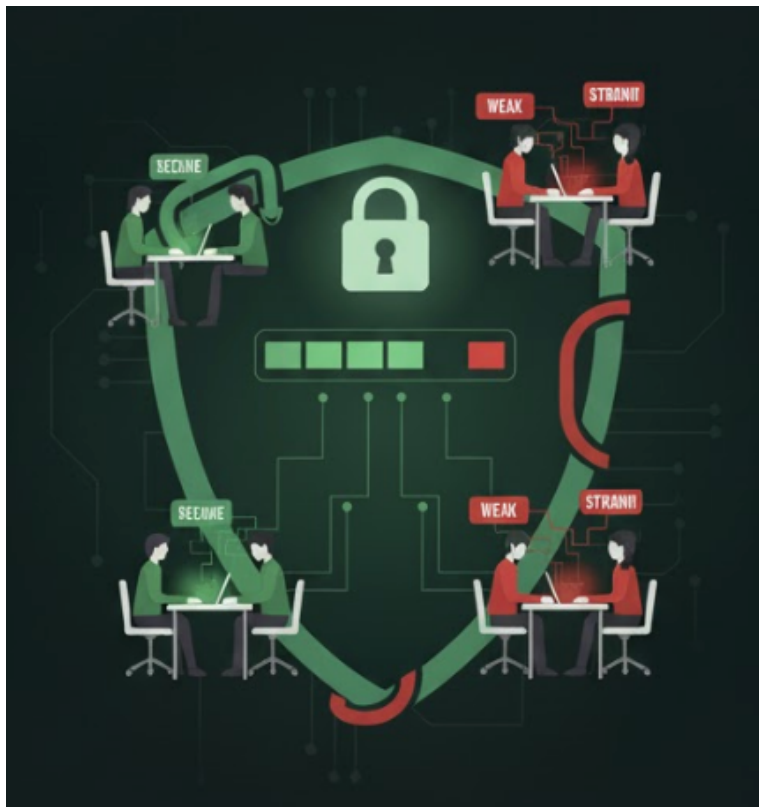
# PASSWORD POLICY

*(Aligned with ISO/IEC 27001 : 2022 Controls A.5.15, A.5.17 | SOC 2 CC6.1 – CC6.2 | NIST SP 800-63B)*

## 1. Purpose

This policy establishes standardized controls for password creation, protection, and management to safeguard organizational systems and data against unauthorized access.

It aligns with **ISO 27001**, **SOC 2**, and **NIST** password security requirements to ensure confidentiality, integrity, and availability of information assets.



## **2. Scope**

This policy applies to:

- All employees, contractors, vendors, and third-party users.
- All information systems, applications, servers, databases, and network devices owned or managed by the organization.
- Both on-premises and cloud environments requiring user authentication.

## **3. Objectives**

- To define strong password standards compliant with international frameworks.
- To protect credentials against unauthorized disclosure or misuse.
- To enforce consistent authentication mechanisms across all systems.

## **4. Policy Statement**

The organization mandates the use of strong, unique passwords or passphrases for every system account.

Passwords must be managed and stored securely, protected through encryption, and supported by multi-factor authentication (MFA) for critical systems.

## **5. Roles and Responsibilities**

### **5.1 Information Security Team**

- Define and maintain password management standards.
- Monitor compliance and perform regular audits.
- Ensure password storage systems use approved cryptographic algorithms.

### **5.2 System Administrators**

- Enforce password complexity and MFA on all systems.
- Disable or change default credentials before system deployment.
- Maintain logs of password-related security events.

### 5.3 Employees and Contractors

- Comply with password requirements and protect credentials.
- Report suspected password compromise immediately.

## 6. Password Requirements

### 6.1 Password Length and Complexity

- Minimum length: **12 characters** (recommended 14+ for admins).
- Must contain **uppercase, lowercase, number, and special character**.
- Passphrases encouraged (e.g., “RedCar!Drives2025”).

### 6.2 Password History and Reuse

- Users cannot reuse their **last 5 passwords**.
- Passwords exposed in known data breaches are strictly prohibited (checked via breach databases).

### 6.3 Password Expiration and Rotation

- No periodic expiration without cause, following **NIST SP 800-63B**.
- Change passwords immediately after compromise or role change.
- Privileged account passwords rotated every **180 days**.

### 6.4 Prohibited Passwords and Patterns

- Do not use company name, username, “password123”, or dictionary words.
- Avoid sequential or repetitive characters (e.g., “1111”, “abcd”).

### 6.5 Passphrase Guidelines

- Use multiple random words separated by special characters.
- Minimum length 16 characters.
- Easier to remember yet strong against brute-force attacks.



## 7. Password Protection

### 7.1 Storage and Encryption

- Store passwords using strong **salted one-way hashes** (e.g., bcrypt, Argon2, PBKDF2).
- Plaintext storage strictly prohibited.

### 7.2 Transmission Security

- Always transmit passwords over **encrypted channels (TLS 1.2 or higher)**.
- Never share passwords through email or instant messaging.

### 7.3 Password Manager Usage

- Only approved corporate password managers may be used.
- Passwords stored locally must be encrypted and protected with MFA.

## 7.4 Handling Default Credentials

- Change or disable vendor-supplied default passwords before deployment.
- Verify all default accounts during system hardening.

## 8. Authentication Controls

### 8.1 Multi-Factor Authentication (MFA)

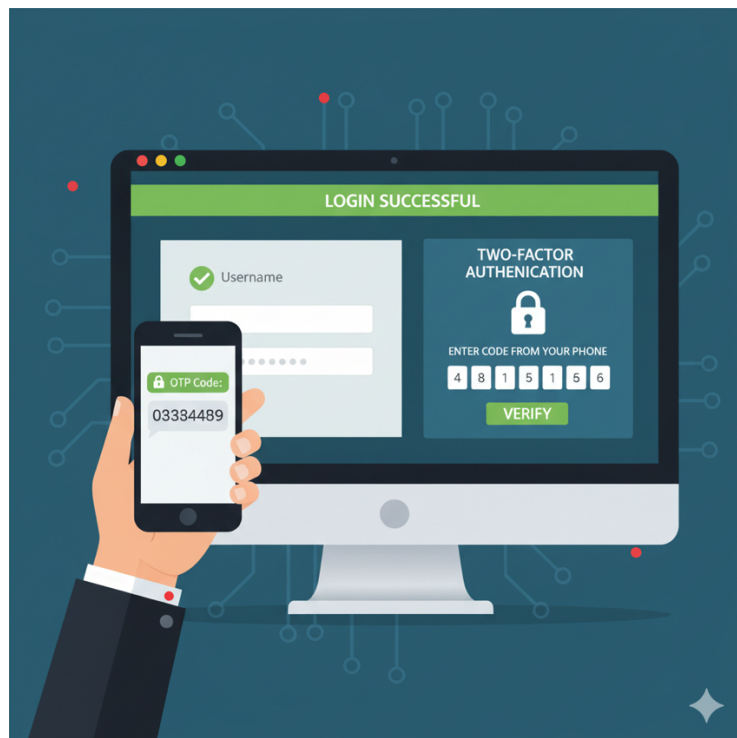
- MFA required for all:
  - Remote access (VPN, cloud, web portals)
  - Administrative and privileged accounts
  - Access to sensitive data or systems

### 8.2 Account Lockout Threshold

- Lock account after **5 failed login attempts**.
- Auto-unlock after **15 minutes** or upon admin approval.

### 8.3 Session Timeout and Reauthentication

- Idle sessions expire after **15 minutes** of inactivity.
- Reauthentication required for high-risk operations.



## **9. Administrative Accounts and Privileged Access**

### **9.1 Privileged Account Rotation**

- Rotate passwords at least every **180 days**.
- Use automated **Privileged Access Management (PAM)** tools.

### **9.2 Shared Account Prohibition**

- Shared passwords are prohibited.
- Each privileged user must have a distinct account.

### **9.3 Privileged Access Management (PAM)**

- PAM solutions must log credential use and provide access reviews.

## **10. Monitoring and Auditing**

### **10.1 Logging of Authentication Events**

- Record all successful and failed authentication attempts.
- Logs must be time-synchronized and protected against alteration.

### **10.2 Regular Compliance Review**

- Conduct quarterly password audits.
- Verify compliance with ISO, SOC 2, and NIST standards.

### **10.3 Reporting and Incident Response**

- Report password compromise immediately to the SOC or Security Team.
- Reset affected passwords and investigate any related security events.

## **11. User Responsibilities**

- Never share, write down, or reuse passwords.
- Report any phishing or credential compromise attempts.
- Use different passwords for personal and business systems.
- Participate in cybersecurity awareness training.



## 12. Policy Enforcement

Non-compliance may lead to disciplinary action, access revocation, or termination. Repeated violations may be escalated to management or HR depending on severity.

## 13. Exceptions

Any deviation from this policy must be formally approved by the **Information Security Manager** and documented with mitigation controls.

## 14. References and Standards

- **ISO/IEC 27001:2022** — A.5.15 Access Control, A.5.17 Authentication Information, A.8.9 Configuration Management
- **SOC 2 Trust Services Criteria** — CC6.1, CC6.2
- **NIST SP 800-63B** — Digital Identity Guidelines (Authenticator & Verifier Requirements)

## 15. Revision History

Version	Date	Description	Author	Approved By
1.0	Oct 2025	Initial release	Information Security Team	CISO

# PASSWORD POLICY COMPLIANCE CHECKLIST

*(ISO 27001, SOC 2, NIST SP 800-63B Aligned)*

**Table Format**

Requirement	Control Description	Responsible Party	Frequency	Compliance Status (Yes/No)	Evidence/Remarks
-------------	---------------------	-------------------	-----------	----------------------------	------------------

**1. General Controls**

	Requirement	Control Description	Responsible Party	Frequency	Compliance Status	Evidence/Remarks
1	Password policy formally documented	Verify that a written password policy exists, approved by management.	Information Security Manager	Annual		
2	Policy reviewed periodically	Review policy every 12 months or after major security events.	ISMS Officer	Annual		
3	Policy aligned with ISO 27001, SOC 2, NIST	Ensure cross-mapping of controls with international standards.	Compliance Officer	Annual		

## 2. Password Creation & Complexity Requirements

	Requirement	Control Description	Responsible Party	Frequency	Compliance Status	Evidence/Remarks
1	Minimum length ( $\geq 12$ characters)	Validate password policy configuration in AD, IAM, or SSO.	System Administrator	Quarterly		
2	Complexity enforced	Check use of uppercase, lowercase, numeric, and special characters.	IT Security	Quarterly		
3	Passphrase supported	Ensure users can use passphrases (e.g., longer phrases).	IT Security	Annually		
4	Breach database check	Passwords must be screened against known compromised passwords.	SOC / IT Security	Quarterly		
5	Password reuse restriction	Ensure at least last 5 passwords are not reusable.	IT / IAM	Quarterly		

### 3. Password Storage & Protection

	Requirement	Control Description	Responsible Party	Frequency	Compliance Status	Evidence/Remarks
1	Passwords hashed with strong algorithm	Verify bcrypt/Argon2/PBKDF2 hashing used in systems.	System Admin	Quarterly		
2	Salt used for each password	Confirm that unique salts are applied per password.	Security Engineer	Annual		
3	Plaintext passwords prohibited	Audit systems for plaintext or reversible encryption.	SOC Team	Quarterly		
4	Secure transmission	Verify password transmission uses TLS 1.2+ or SSH.	Network Admin	Quarterly		

### 4. Authentication & Access Control

	Requirement	Control Description	Responsible Party	Frequency	Compliance Status	Evidence/Remarks
1	Multi-Factor Authentication (MFA)	Confirm MFA implemented for privileged and remote accounts.	IT Security	Quarterly		
2	Account lockout policy	Lock account after 5 failed login attempts.	IT Administrator	Quarterly		
3	Session timeout	Idle sessions auto-logout after 15 minutes.	System Admin	Quarterly		
4	Default passwords removed	All default vendor passwords must be changed pre-deployment.	DevOps / IT	Per deployment		

## 5. Privileged Account Management

	Requirement	Control Description	Responsible Party	Frequency	Compliance Status	Evidence/Remarks
1	Privileged password rotation	Rotate admin passwords every 180 days.	IT Admin	Semiannual		
2	PAM tool in use	Verify usage of Privileged Access Management (PAM) solution.	IT Security	Annual		
3	No shared accounts	Confirm all privileged accounts are unique and traceable.	Security Manager	Quarterly		

## 6. Monitoring & Logging

	Requirement	Control Description	Responsible Party	Frequency	Compliance Status	Evidence/Remarks
1	Log authentication events	All login success/fail events logged.	SOC Team	Continuous		
2	Audit password changes	Password change events logged and reviewed.	SOC / ISMS	Monthly		
3	Review access logs	Verify logs reviewed periodically for anomalies.	SOC Analyst	Monthly		

## 7. User Training & Awareness

	Requirement	Control Description	Responsible Party	Frequency	Compliance Status	Evidence/Remarks
1	Awareness training provided	Conduct annual password and MFA training.	HR / Security Awareness Team	Annual		
2	Phishing simulation awareness	Include credential protection in phishing simulations.	SOC / HR	Semiannual		
3	Users report compromises	Ensure reporting procedure for suspected password leaks.	All Employees	Ongoing		

## 8. Policy Review & Updates

	Requirement	Control Description	Responsible Party	Frequency	Compliance Status	Evidence/Remarks
1	Annual review	Conduct a formal review of the password policy.	ISMS Officer	Annual		
2	Policy approval	Ensure CISO or top management approval for updates.	Compliance Officer	Annual		
3	Update based on incidents	Update policy after password-related incidents or audits.	Security Team	As needed		

## Notes for Use

- **“Responsible Party”** can be customized per department (e.g., SOC, IT Admin, CISO).
- **“Evidence/Remarks”** may include screenshots, system configs, or audit reports.
- This table can be used directly in Excel, Notion, or an ISO 27001 ISMS tracking system.

