# Security Risk Assessment Report

## Part 1: Select up to three hardening tools and methods to implement

1. Implement Multi-Factor Authentication (MFA):  
 Enabling MFA for all employee and administrator accounts to ensure that account access requires both a password and a secondary verification method.  
  
2. Enforce Strong Password Policies:  
 Require all employees to use strong, unique passwords and prohibit password sharing. Implement regular password changes and prevent reuse of old passwords.  
  
3. Configure Firewall Rules:  
 Set up strict firewall rules to filter both incoming and outgoing network traffic, allowing only necessary and secure communications.

## Part 2: Explain your recommendations

### Recommendation 1: Multi-Factor Authentication (MFA)

- Why it is effective:  
 MFA significantly increases account security by requiring two forms of identification. Even if a password is compromised, unauthorized access is much less likely without the second authentication factor.  
- Implementation Frequency:  
 MFA should be enforced at all times, with regular audits every 3-6 months to ensure compliance and functionality.

### Recommendation 2: Strong Password Policies

- Why it is effective:  
 Strong, unique passwords greatly reduce the risk of password-related attacks such as brute force or credential stuffing. Preventing password sharing protects against insider threats and accidental breaches.  
- Implementation Frequency:  
 Password policies should require changes every 60–90 days and use password managers to maintain secure storage. Security awareness training on password hygiene should be provided at least twice a year.

### Recommendation 3: Configure Firewall Rules

- Why it is effective:  
 Firewalls serve as the first line of defense against unauthorized access to the network. Properly configured firewalls block suspicious traffic and limit exposure to external threats.  
- Implementation Frequency:  
 Firewall rules should be reviewed and updated monthly, or immediately after major infrastructure changes, to ensure continued protection.