

# Security risk assessment report

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

Password Policies - National Institute of Standards and Technology (NIST) latest recommendation for password policy, emphasizing salting and hashing passwords rather than using overly complex passwords.

Multifactor Authentication (MFA) - Process of requiring a user to verify their identity in 2 or more ways to be granted access to a system.

Port Filtering - Firewall functions that block or allow data to travel through certain ports.

## Part 2: Explain your recommendations

The organization should incorporate password policies involving hashing and salting passwords, as this would deter attackers from being able to brute force their way into accessing sensitive information.

The organizations should also incorporate Multifactor Authentication (MFA) to make it difficult for attackers to access sensitive information. Multifactor authentication requires multiple sources (2 or more) to verify one's identity, e.g., password, sms, and fingerprint.

The organization should also look into port filtering. This method can filter out unused ports to reduce the overall attack surface of an organization. Port filtering limits communication between certain ports.