

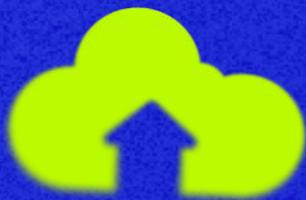
COAX



# Essential Cloud & Web Security



**Checklist**



# How to Use This Checklist

This checklist helps businesses identify crucial security measures for their cloud and web presence. Each item includes:

- **Business importance**
- **Potential impact if not addressed**
- **Estimated cost level** (💰 Low, 💰💰 Medium, 💰💰💰 High)
- **Implementation expertise** (🏢 In-house possible, 🤝 External help recommended)

## 1. Account & Access Security

### Strong Password Policy

**Why It Matters:** Prevents unauthorized access to your business systems

**Business Impact:** Account breaches can lead to data theft and business disruption

**Cost:** 💰 Low

**Expertise:** 🏢 In-house possible

- Implement minimum password requirements
- Regular password changes
- Unique passwords for different services

Password Length:

Auto ▾

15

Include Alpha Upper (A-Z):



Include Alpha Lower (a-z):



Include Number (0-9):



Include Symbol:

!#\$%&\*+~?@'(),./: |



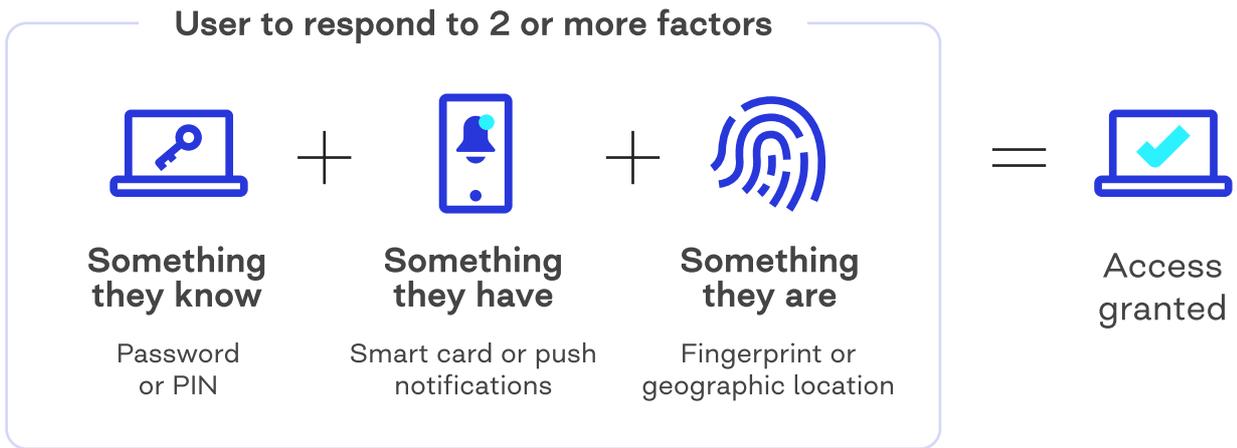
# Multi-Factor Authentication (MFA)

**Why It Matters:** Adds an extra layer of security even if passwords are compromised  
**Business Impact:** Prevents unauthorized access even if credentials are stolen

**Cost:** 💰 Low

**Expertise:** 🏠 In-house possible

- Enable MFA for all cloud service accounts
- Enable MFA for employee email accounts
- Enable MFA for admin access to websites



# Access Management

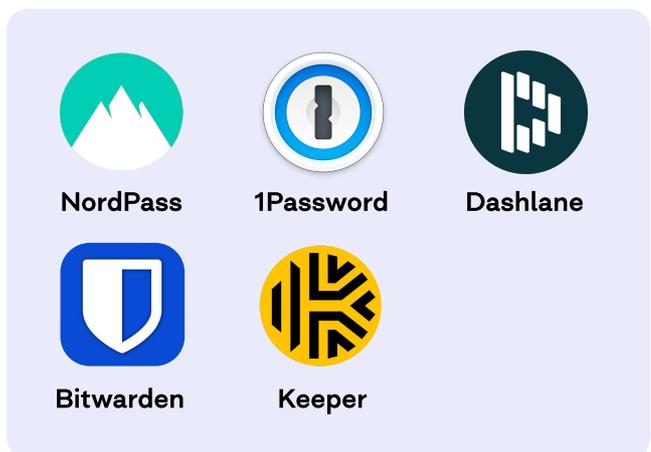
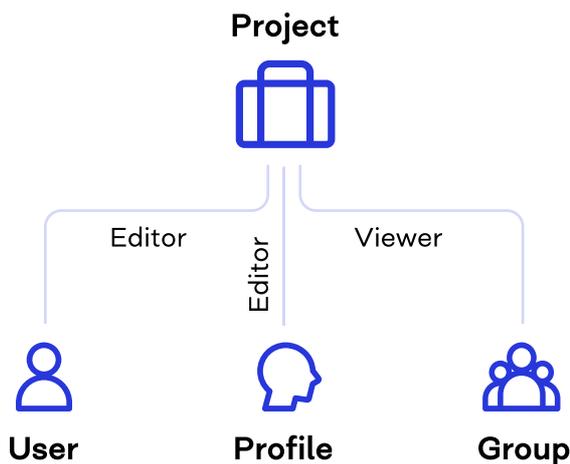
**Why It Matters:** Ensures employees only access what they need for their work

**Business Impact:** Reduces risk of internal data breaches and accidents

**Cost:** 💰💰 Medium

**Expertise:** 🙋 External help recommended

- Define employee access levels
- Regular access review process
- Monitor unusual access patterns



## Real-World Impact Examples:

- [SolarWinds \(2020\)](#): Weak MFA implementation contributed to a major supply chain attack
- [Twitter \(2020\)](#): High-profile accounts, including Apple, Uber, and Bill Gates, were compromised through the social engineering of employees with administrative access.
- [Facebook \(2021\)](#): Data of 533 million users exposed due to insufficient access controls.
- [Colonial Pipeline \(2021\)](#): The ransomware attack succeeded through a compromised VPN account that only required single-factor authentication.
- [Uber \(2022\)](#): Hackers gained admin access through stolen credentials and lack of MFA.

## Statistics:

- Microsoft [reports](#) that over 99.9% of compromised accounts don't use MFA.
- 80% of breaches involved identity as a key component. ([Duo by Cisco](#))



## 2. Cloud Infrastructure Security

### Cloud Accounts Security

**Why It Matters:** Protects your business's cloud-based operations and data

**Business Impact:** Prevents unauthorized charges and data exposure

**Cost:** 💰 Low

**Expertise:** 🙌 External help recommended

- Review cloud service security settings
- Monitor unusual usage patterns
- Set up billing alerts

### Cloud Data Security

**Why It Matters:** Ensures business continuity in case of data loss or system failure

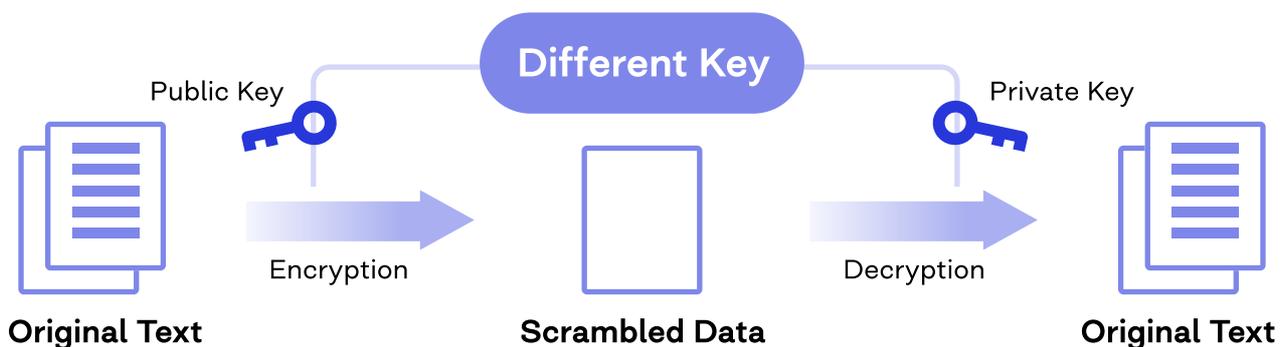
**Business Impact:** Protects sensitive business data loss

**Cost:** 💰💰 Medium

**Expertise:** 🙌 External help recommended

- Regular data backup schedule
- Encrypt sensitive data
- Regular permission audits

### Data encryption



### Cloud Network Protection

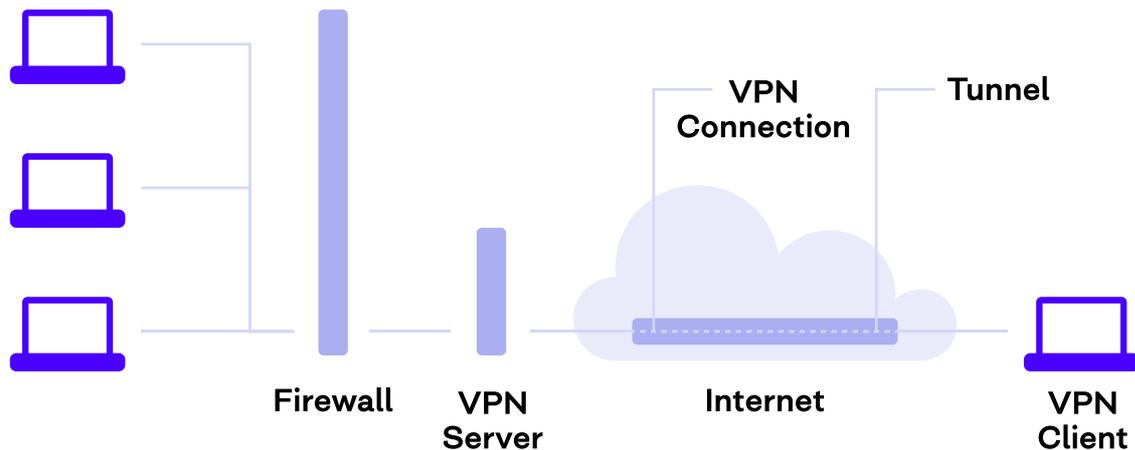
**Why It Matters:** Protects your business network from unauthorized access and attacks

**Business Impact:** Prevents network breaches and maintains business operations

**Cost:** 💰💰 Medium

**Expertise:** 🧑‍🔧 External help recommended

- Firewall and VPN configuration
- Network monitoring
- Regular access scans
- Network segmentation



#### Real-World Impact Examples:

- [AT&T Data Breach Involving Snowflake Cloud Platform \(2024\)](#): Compromised data resulted from customers not adequately securing their accounts.
- [DNA Diagnostics Center \(2023\)](#): Network intrusion exposing genetic data.
- [KidSecurity \(2023\)](#): User data compromised after the app failed to set password protection

#### Statistics:

- There was a 75% increase in total cloud environment intrusions from 2022 to 2023. ([Crowdstrike](#))
- 80% of companies have experienced at least one cloud security incident in the last year. ([ExpertInsights](#))

# 3. Web Security

## TLS Certificate

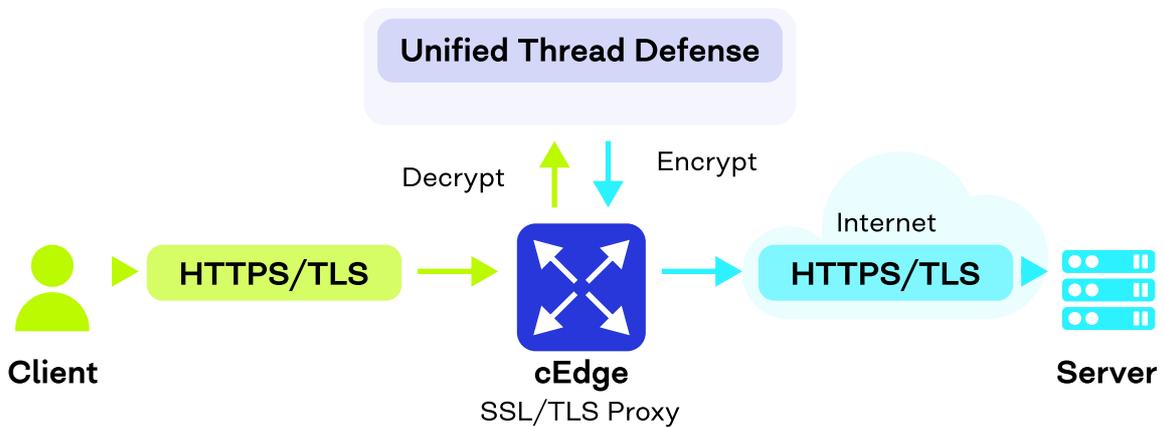
**Why It Matters:** Encrypts website traffic and shows visitors your site is secure

**Business Impact:** Builds customer trust and prevents data interception

**Cost:** 💰 Low

**Expertise:** 🏠 In-house possible

- Use the latest possible version of the TLS protocol
- Regular certificate renewal process
- Redirect HTTP to HTTPS



## Website Software Updates

**Why It Matters:** Fixes security vulnerabilities in your website software

**Business Impact:** Prevents website hacks and defacement

**Cost:** 💰💰 Medium

**Expertise:** 🙋 External help recommended

- Regular software updates
- Regular security scans
- Automated update notifications

## Form & Input Security

**Why It Matters:** Prevents abuse of your website's interactive features

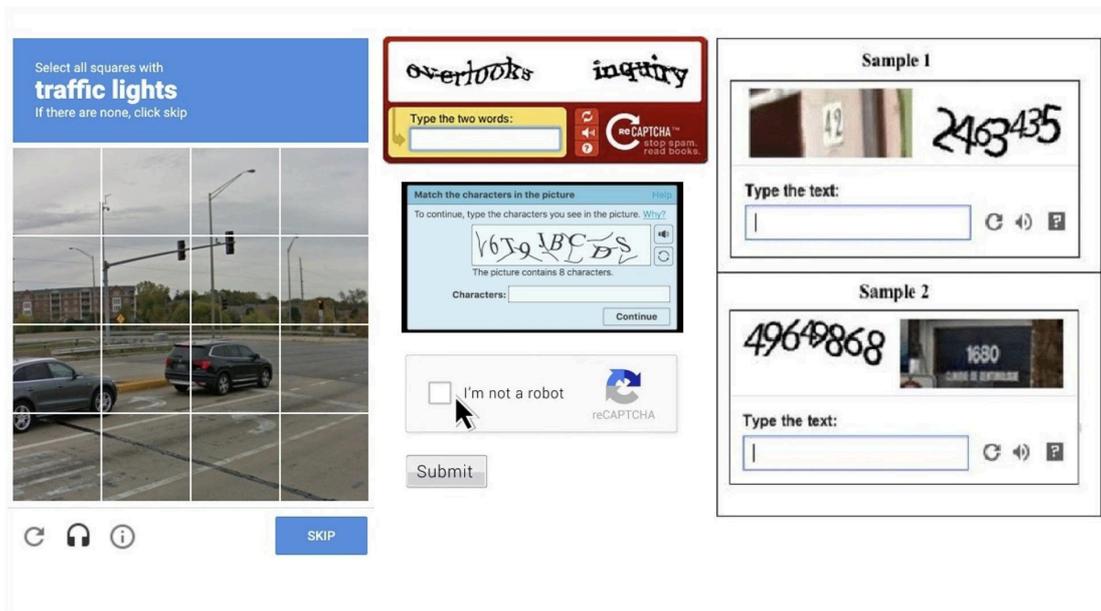
**Business Impact:** Prevents spam and malicious submissions

**Cost:** 💰💰 Medium

**Expertise:** 🙋 External help recommended

- CAPTCHA on forms
- Input validation
- File upload restrictions

## Types of CAPTCHA



## DDoS Protection

**Why It Matters:** Prevents attackers from overwhelming and crashing your online services

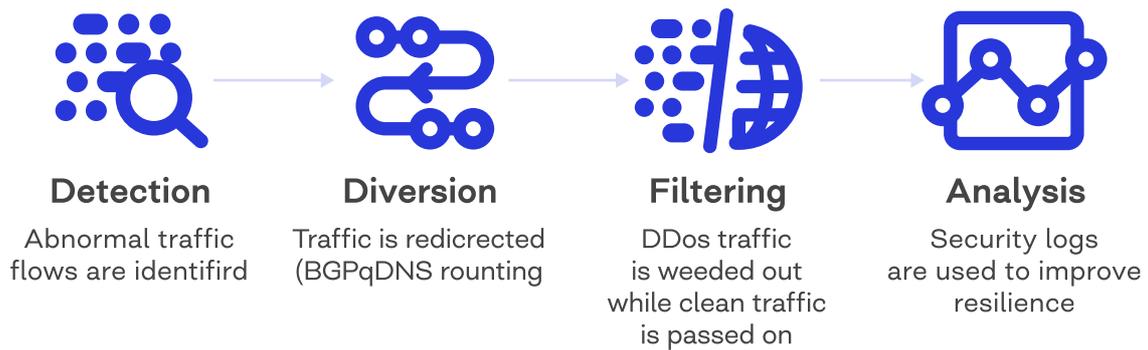
**Business Impact:** Maintains business continuity and prevents revenue loss from downtime

**Cost:** 💰💰 Medium to 💰💰💰 High

**Expertise:** 🙋 External help recommended

- DDoS mitigation measures
- Traffic monitoring
- Incident response plan for DDoS attacks

## DDoS Mitigation Stages



### Real-World Impact Examples:

- [TLS Bootstrap Attack on Azure Kubernetes Clusters \(2024\)](#): Gain access to all secrets used by running workloads.
- [WordPress Breaches \(2024\)](#): Multiple issues with WordPress and Plugins.
- [Meta \(2024\)](#): Form submission vulnerability allowing account takeover.

### Statistics:

- Based on an [analysis of 7 million websites](#), SiteLock reports that websites currently experience an average of 94 attacks every day.
- DDoS attacks spiked in 2024, with Netscout [reporting](#) approximately 8 million DDoS attacks in the first half of 2024 -13% up compared to the previous six months.

# What To Do Next?

1. Review each item in this checklist.
2. Prioritize based on your business needs and risks.
3. Consult with IT professionals for complex items.
4. Schedule regular security reviews.

[Contact COAX](#) security experts to get a free cloud and web security review.

