





aren't all that effective. Even the best combination of numbers, letters, and special characters can

be stolen in several ways. Perhaps the hacker lured you into typing your

A quick look at haveibeenpwned.com shows startling statistics: passwords

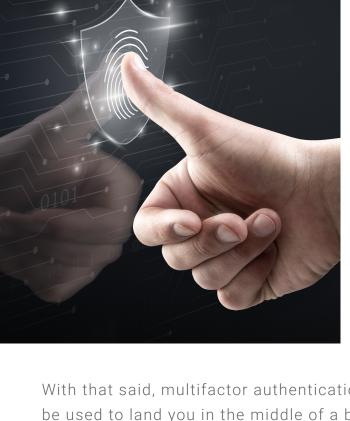
password into a fraudulent account login page or using a keylogger program to track each keystroke. Even if you successfully evaded these tactics, your password may have been leaked in a massive data breach - as is known to occur commonly. One **<u>survey</u>** found that over 2 billion data records have been compromised including passwords and usernames. To put things into perspective, nearly

one million passwords are stolen every week. This is why cybersecurity experts at Microsys recommend changing your password at least once every three months. However, in light of the sobering

statistics above, you can't take any chances. If only there were an additional method of authenticating your identity... Enter multifactor authentication. As the term suggests, multifactor authentication requires users to submit a second, third, or even more

verification factor to access an account. For obvious reasons, this can be

very inconvenient to users since logging into an account is no longer as seamless as entering a password.



Multifactor Authentication? Microsoft says that multifactor attacks are very effective - in fact, rolling out MFA can

block nearly 100% of account hacks. Once your accounts have been protected with

How Effective Is

MFA, stealing a password or brute force attempts will no longer provide access to hackers. With that said, multifactor authentication isn't bulletproof and, in certain scenarios, could be used to land you in the middle of a breach. As multifactor authentication pops up everywhere, attackers are becoming more creative at circumventing the security method.

fraudulent link. Hackers often do a lot of groundwork for a phishing attempt to work. They will build a fraudulent website that mimics the source website to trick users into entering their

It can be relatively easy to find an OTP using phishing scams. For example, this Reddit breach was caused by a phishing scam when an employee was tricked into clicking a

One of the biggest culprits is one-time passwords (OTPs).

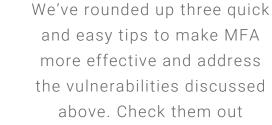
OTPs. Just like OTPs, SMS-based codes can also become susceptible to hacking attempts.

Attackers are known for using SIM swap attacks to mimic an authorized device and

force tactics to crack PINs (relatively easy since they are usually composed of 4-digit numbers). It is also possible to compromise recovery emails. Another common method of circumventing MFA is to trick users into accepting a security challenge by repeatedly sending push notifications to the user. The victim eventually gives in to the endless barrage of notifications and approves it to put an end to them.

MFA fatigue was used to break into <u>Uber's internal systems</u> in September 2022.

stealing a user's OTP or SMS codes. There have also been reports of hackers using brute



below!

Making MFAs

More Effective

Avoid Vulnerable MFA Factors

experts at Microsys

Spread Awareness



implementing them. User awareness is key to the effectiveness of MFA, so make sure to spread awareness through education sessions. Use Number Matching

Number matching is a feature that requires users to enter the number

displayed on the sign-in screen for approving requests. This is a great way of countering MFA fatigue attacks that spam push notification

include a private cryptographic key (embedded at the hardware level)

and strong inherence factors such as facial or touch recognition.

For more information on phishing-resistant MFAs and how you can

implement them in your business, contact the cyber security services

The strongest cybersecurity toovl is only as good as the person behind

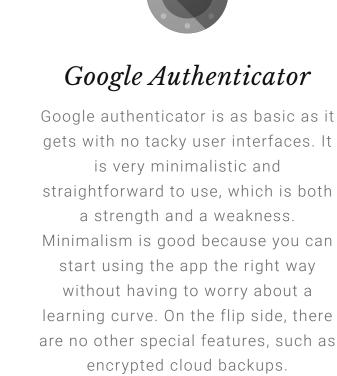
MFA is no exception. The best way to make your MFA rollout successful

it. Humans are often the weakest link in a cybersecurity system, and

is to provide your users with information about why you are

spams. Most authenticators, including those from Microsoft, Duo, and Okta TOTP, are implementing number matching to keep their users safe.

stack.



Microsoft Authenticator Microsoft Authenticator was one of the first MFA apps to implement number matching, as discussed earlier. It is well-equipped for situations that require two-factor

authentication. Furthermore,

Microsoft Authenticator also

supports backup and restore

features.

Best MFA Apps

Below are a few multifactor authentication software for small businesses that you can implement in your IT infrastructure without making any significant changes to your tech

for Business

AuthO is a huge step up from Google Authenticator because it provides organizations with an entire suite of identity management features. The

only catch is that learning all the

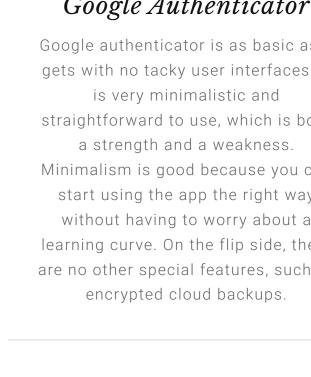
features will require a learning curve,

but you will find the app to be more

than capable of meeting your needs.

Auth0 is free, with up to 7,000 active

users and unlimited logins.



multi-user deployment. Duo is compatible with any site that supports Google Authenticator. It is available on iOS, Android, Windows

Duo Security

Duo is mostly geared toward

business users and offers enterprise

features such as user provisioning, one-tap push authentication, and

Phone, and BlackBerry. Installing Duo

is easy, and you can start using it within minutes. Password



additional layer of security to prevent cybersecurity incidents. Start implementing MFA today to protect your data, network, and IT

infrastructure. Roll out MFA without disrupting your existing workflows and







https://microsysinc.ca/