



ARCHDIOCESE
OF
SAINT PAUL &
MINNEAPOLIS

*United in Faith,
Hope and Love*

Multi-Factor Authentication

A Critical Piece of Your IT Security Puzzle

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September 29, 2021

Introduction to Multi-Factor Authentication



- Every day there are active threat actors that are probing our systems looking for weaknesses by attempting to steal or attack our personal and organizational data.
 - Email
 - Financial Information
 - Confidential Information
 - Inflict Ransomware
- You may not even be aware that your account credentials have been compromised and your data has been stolen.

Introduction to Multi-Factor Authentication



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Reply Reply All Forward ...

Tue 8/3/2021 12:57 PM

To Undisclosed recipients:

i This message was sent with High importance.
If there are problems with how this message is displayed, [click here to view it in a web browser.](#)
[Click here to download pictures.](#) To help protect your privacy, Outlook prevented automatic download of some pictures in this message.



You have a new voice message.

click the Listen button below to access your encrypted voice message. Duration 00:59

Listen

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Introduction to Multi-Factor Authentication



';--have i been pwned?

Check if your email or phone is in a data breach

mark.trapp@lci-online.com

pwned?

Oh no — pwned!

Pwned in 2 data breaches and found no pastes (subscribe to search sensitive breaches)

Introduction to Multi-Factor Authentication



- How do we counteract these attempts and stop the attackers at the door before they have a chance to invade our systems?
- Work to implement multi-factor authentication!

Introduction to Multi-Factor Authentication



- **Multi-factor authentication** adds a second layer of security to your IT accounts. Verifying your identity using a **second factor** (like your phone or USB fob) prevents anyone but you from logging in, even if they know your password.
- How It Works
 1. Enter username and password as usual
 2. Use your phone or touch USB fob to verify your identity
 3. Securely logged in



Introduction to Multi-Factor Authentication



- There are multiple device types and methods that can be used to perform multi-factor authentication depending on the service chosen by your organization.
 - Apple iOS devices (iPhone, iPad, Apple Watch) – Authenticator App
 - Android devices (Android Phones and Tables) – Authenticator App
 - Phone Call
 - Text Message
 - USB 'Touch' fobs named Yubikeys
- Multi-factor authentication providers provide a self-enrollment portal where you will enroll and manage the devices you choose to use for multi-factor authentication.

Introduction to Multi-Factor Authentication



- All major cloud service providers offer multi-factor authentication protection.
 - Microsoft Office 365
 - Google Workspace and Gmail
- For larger organizations that use more than just email services there are dedicated multi-factor authentication service providers to integrate with your custom cloud and on-premise applications.
 - Duo
 - Okta
- Work with your trusted IT provider to determine what works best for your organization.

Introduction to Multi-Factor Authentication



- What does it cost to implement multi-factor authentication?
 - Typically, it is charged by the user and costs a few dollars per user per month.
 - You may already have a license that includes multi-factor authentication.

Office 365 – Microsoft Authenticator



Microsoft

Sign in

mark.trapp@lci-online.com

No account? [Create one!](#)

[Can't access your account?](#)

[Back](#) [Next](#)

Microsoft

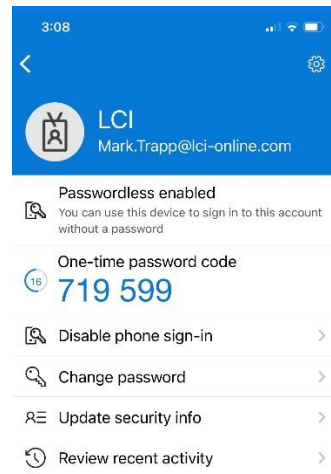
← mark.trapp@lci-online.com

Enter password

.....

[Forgot my password](#)

[Sign in](#)



Microsoft

mark.trapp@lci-online.com

Enter code

Please type in the code displayed on your authenticator app from your device

719599

Having trouble? [Sign in another way](#)

[More information](#)

[Verify](#)

Google Workspace – Gmail



Google

Sign in
to continue to Gmail

Email or phone
mark.trapp@gmail.com

[Forgot email?](#)

Not your computer? Use a private browsing window to sign in. [Learn more](#)

[Create account](#) [Next](#)

Google

Hi Mark

mark.trapp@gmail.com

Enter your password

.....

Show password

[Forgot password?](#) [Next](#)

3:19

Google

Are you trying to sign in?

mark.trapp@gmail.com

Device
Windows NT 10.0

Near
Woodbury, MN, USA

Time
Just now


No, don't allow Yes, it's me

Google

2-Step Verification

This extra step shows it's really you trying to sign in

mark.trapp@gmail.com



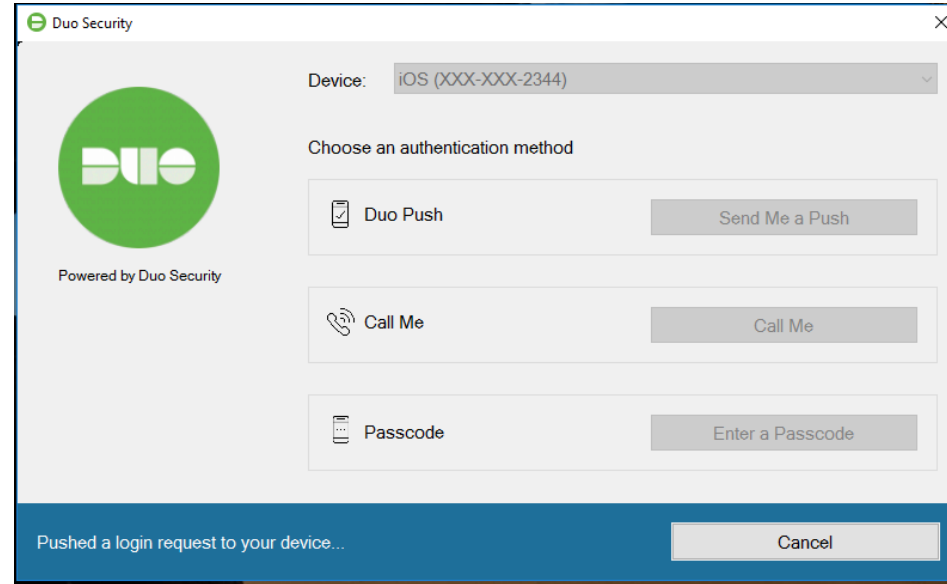
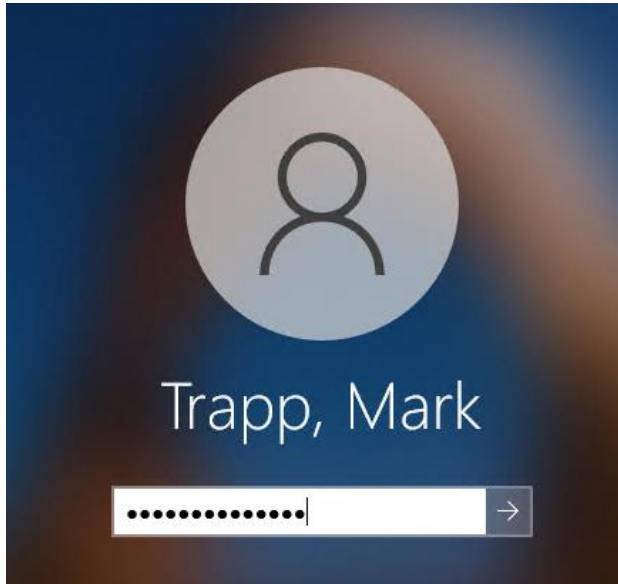
Check your device

Google sent a notification to your Apple iPhone 12 Pro, Apple iPhone XR, and 1 more. Open the Gmail app and tap **Yes** on the prompt to verify it's you.

Duo – Desktop Login

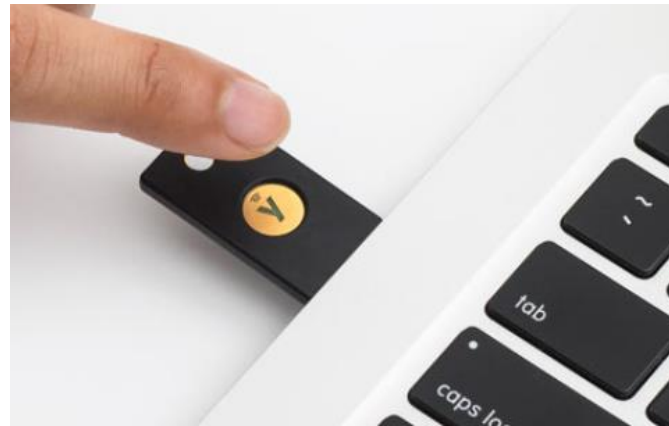


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Yubikey Fobs

- In addition to using performing multi-factor authentication with a smartphone, you may also authenticate by touch using a USB fob named a Yubikey.
- There are different form factors available to choose from.



Introduction to Multi-Factor Authentication



- When implementing multi-factor authentication, you slam the door on their attacks!
- Only you have the ability to log into your accounts even if your credentials are stolen.
- It is one of the easiest security measures to implement and has the biggest return on investment.

Contact Information



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