

# Multifactor Authentication: The Missing Piece in Your Cybersecurity Strategy



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01



# Passwords



The Weak Link



# Passwords = Problems

#1

Top action used in breaches is **stolen credentials**

81%

Total number of breaches that leveraged either **stolen** and/or **weak passwords**

65%

Of the users, use the **same password** in all of their account

02

# Case Studies



Real-World Examples

# SMS OTP? Really?

- Reddit Breach(2018) due to SMS-only for 2FA.
- Vulnerable to SIM swap attacks
- Rated by Gartner as “**Low**” security
- Just Google it!

Using SMS in addition to your password is better than nothing, but it’s not the most reliable approach.



# Accounts Breached

- Close to 35,000 users impacted on Paypal
- More than 500.000 Zoom accounts sold in dark web
- Its **EASY** getting credentials database from the Dark WEB.

Paypal adviced users to use unique and long passwords and to activate 2FA.





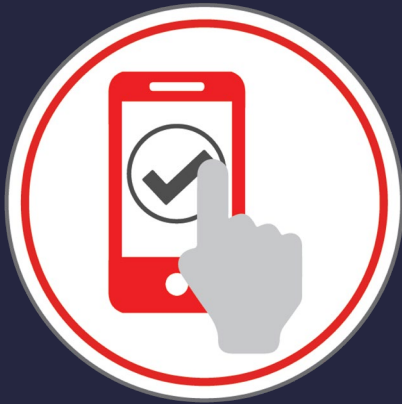
# LastPass Breach

- Attack targeted encrypted Amazon S3 buckets
- LastPass's luckless developer got keylogged
- Attack on home computer via 3<sup>rd</sup> party software

Lack of proper **patching** and use of **MFA**.

The LastPass logo is displayed in white and red text against a dark blue background. The word "Last" is in white, and "Pass" is in red.

03

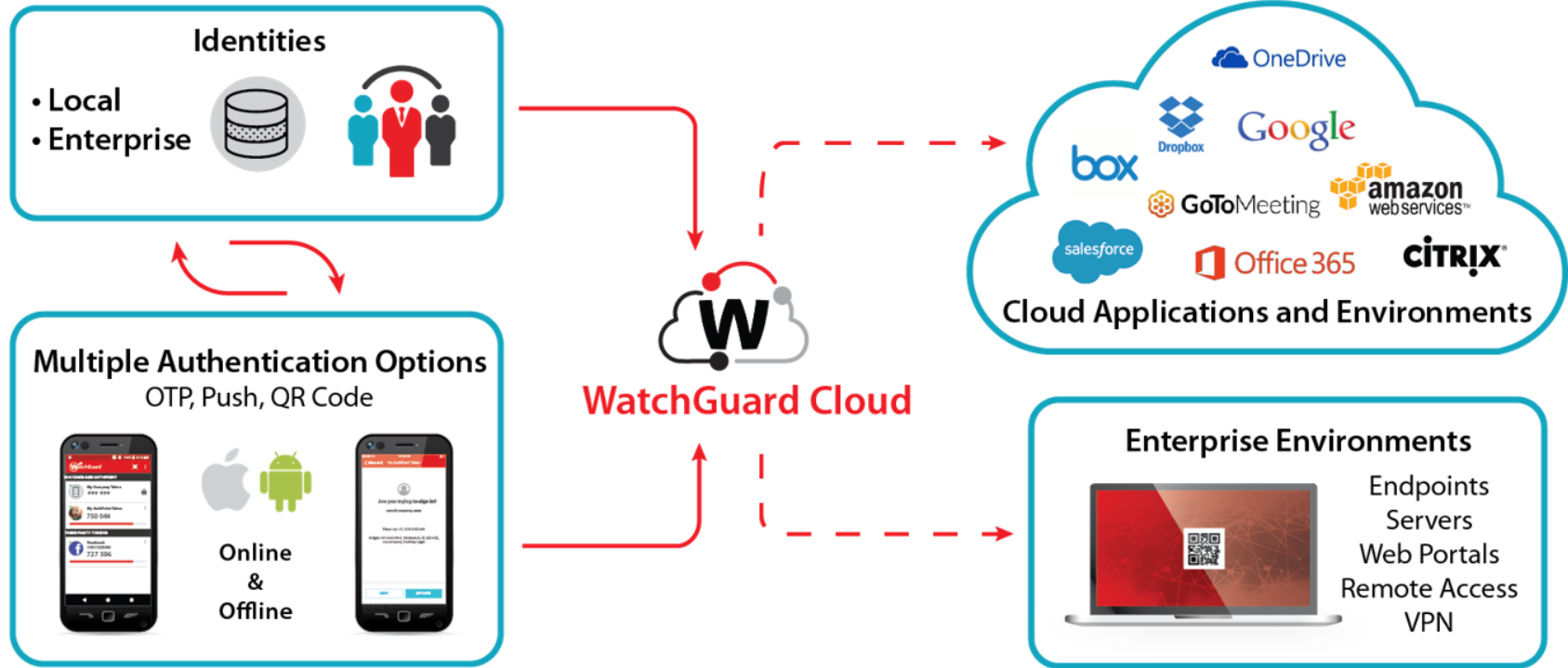


# AuthPoint Solution

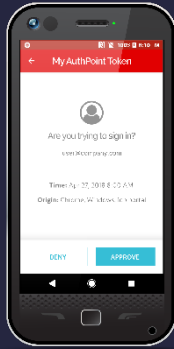


MFA That's Really Easy

# AuthPoint Overview



# MFA Authentication Options



Push



QR Code



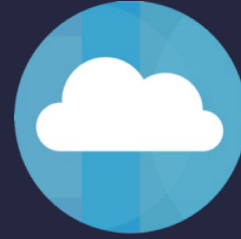
One-Time Password

# MFA Use Cases

PCs & Server Logon



SSO to Cloud Apps



Remote Access

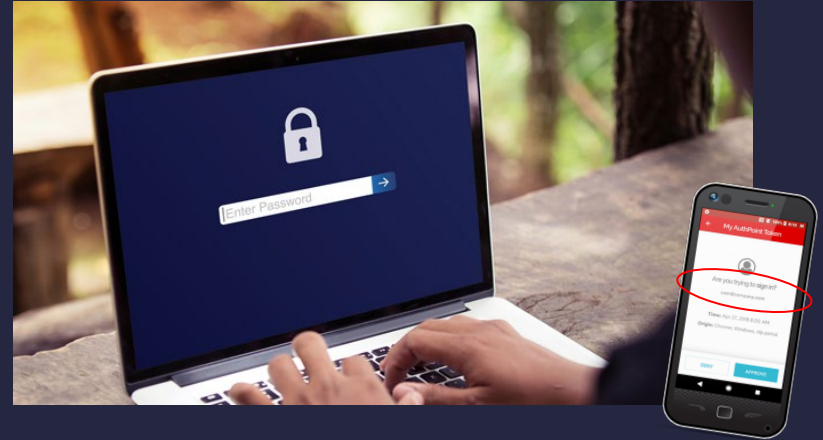


Privileged User Access



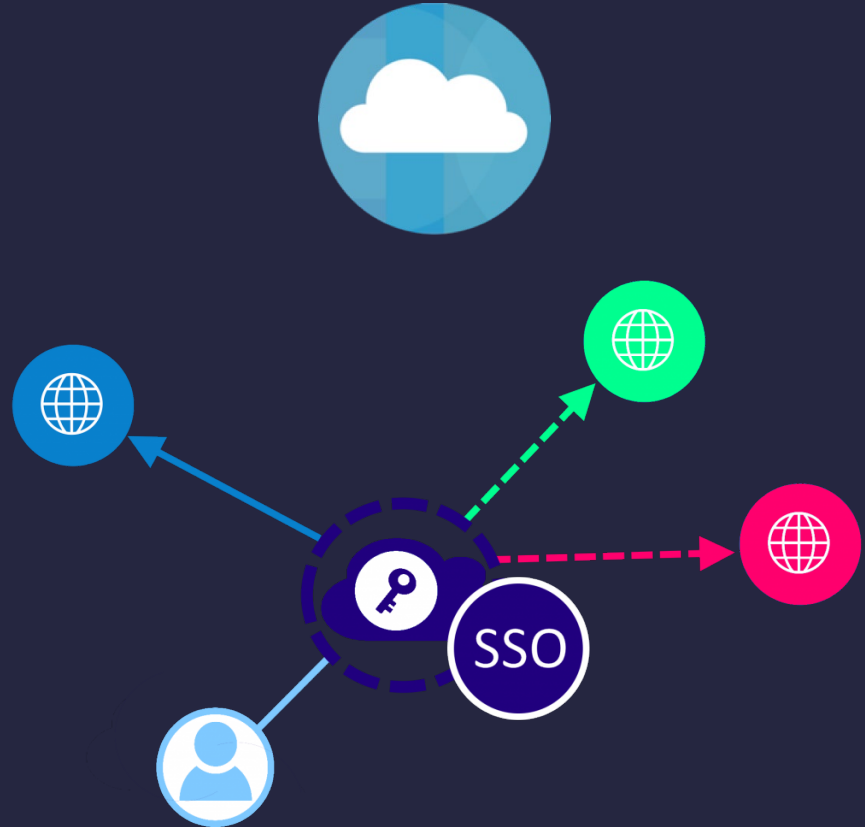
# PCs & Server Logon

- Protect user login to their local or remote computers and servers using MFA, enabling both online or offline protection.
- Remote connection to a computer (like RDP) can be the 1<sup>st</sup> step for a hacker.
- Key employees might carry critical and confidential information on their laptops.

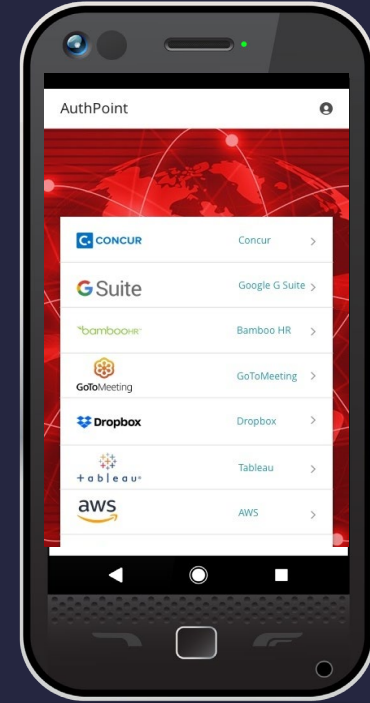
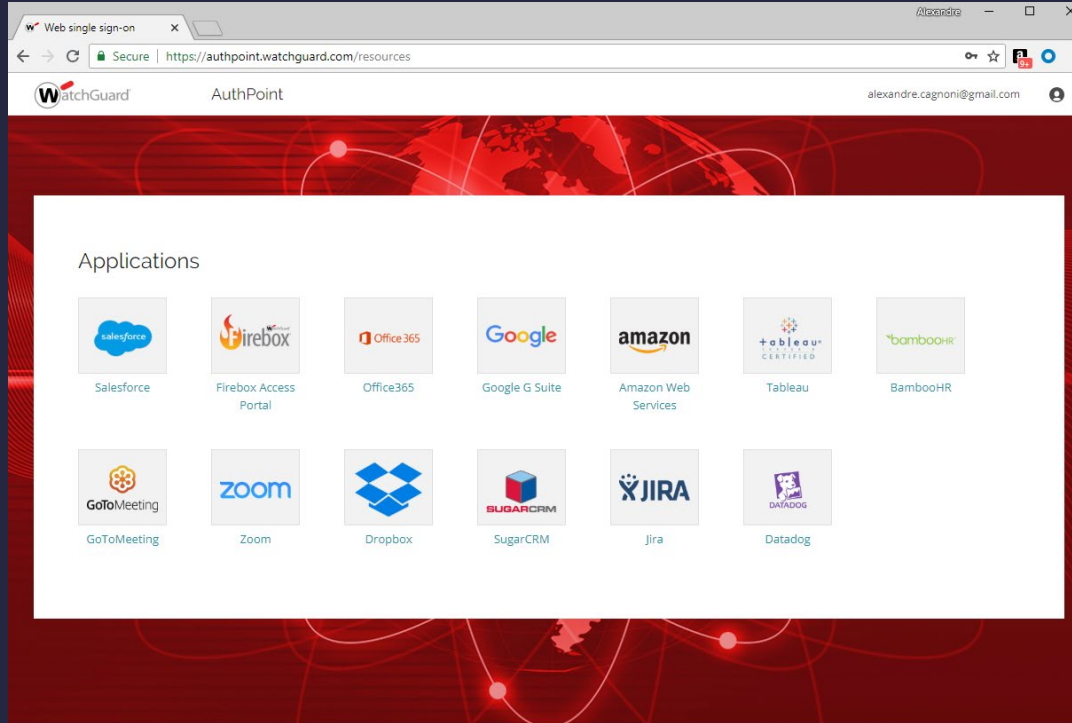


# SSO to Cloud Apps

- Protect cloud applications that are outside of your network with MFA.
- Secure employees' credentials and allow admins to define who has access to which application.
- Sign-in once with MFA and get Web SSO access to your cloud applications.



# Web Single Sign-On(SSO)





# Remote Access



You may have the best remote access and firewall.  
Still, it takes for a hacker to gain entry is **one** of the following:



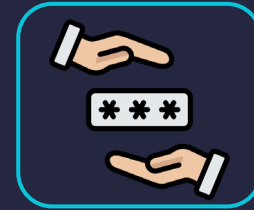
**One User**

With bad Password



**One User**

With Keylogger



**One User**

Sharing Password or OTP

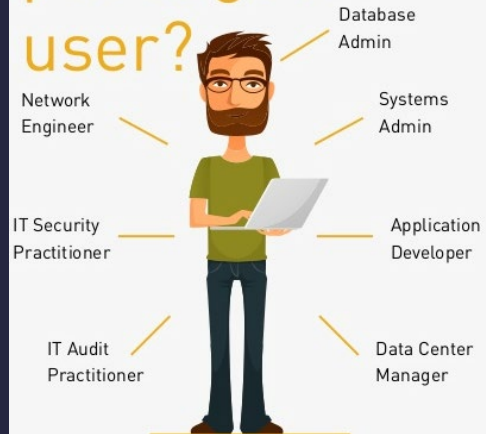
Any Remote Access, VPN application, no matter the vendor,  
**SHOULD** have MFA to protect the network.

# Privileged User Access

- Additional layer of security.
- Protects against malicious employees.
- Examples are Root access to Linux machines or critical apps or systems (e.g CyberArk)



Who is the privileged user?



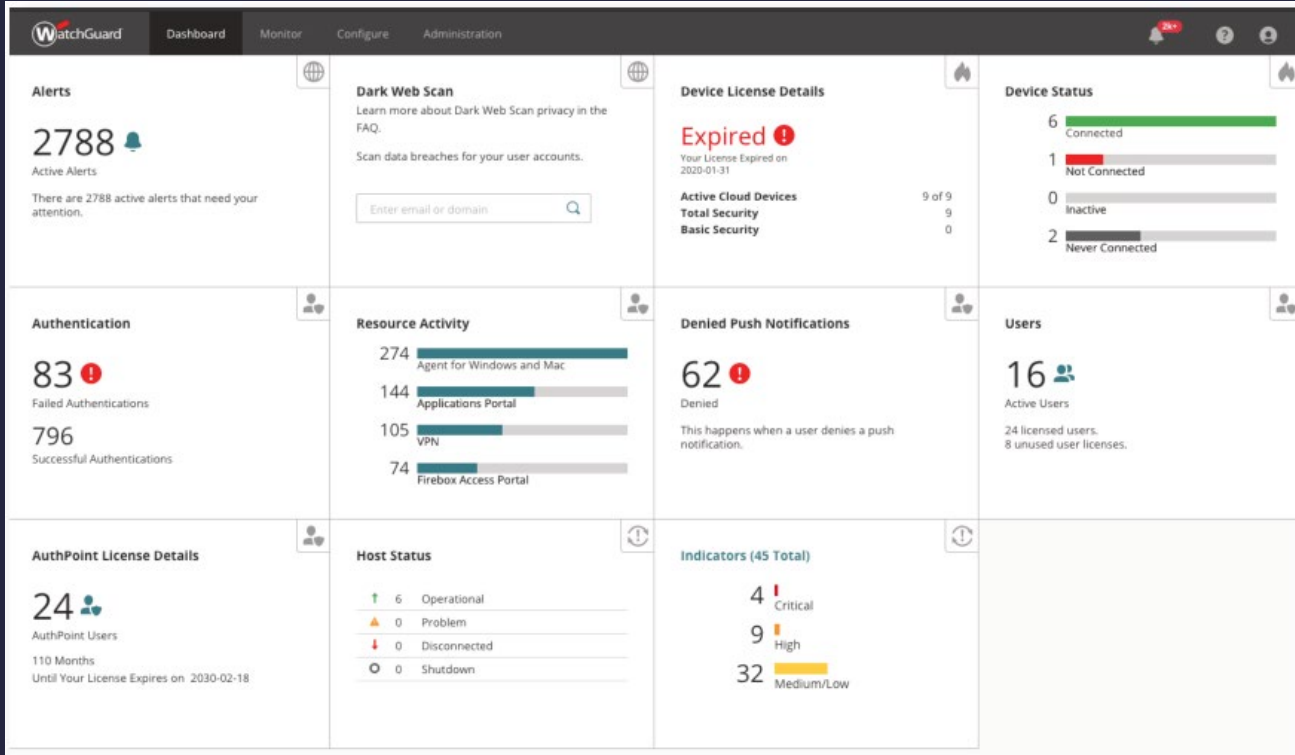
04

# Centralized Managed **MFA** Solution



Implement a Zero-Trust Architecture

# Comprehensive MFA Dashboard



The Gartner logo is displayed in white text on a dark blue square background. The word "Gartner" is in a bold, sans-serif font, with a registered trademark symbol (®) to the right of the letter "r".

**Gartner**®

## Recommendations

- ✓ Adopt risk-based framework
- ✓ Provide end users with choice while satisfying the trust requirements
- ✓ Prioritize mobile push and mobile OTP

# Risk Framework





## Conclusions

- ✓ AuthPoint is a cloud-based MFA solution, managed in **WatchGuard Cloud**
- ✓ Provides **Push-Based authentication**, for the best security and user experience.
- ✓ Facilitates the **Zero-Trust** implementation rules.
- ✓ MFA deployment with **Risk-based policies**.
- ✓ Using MFA for **Web SSO** also brings **better UX** for end users.



# Thanks!



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