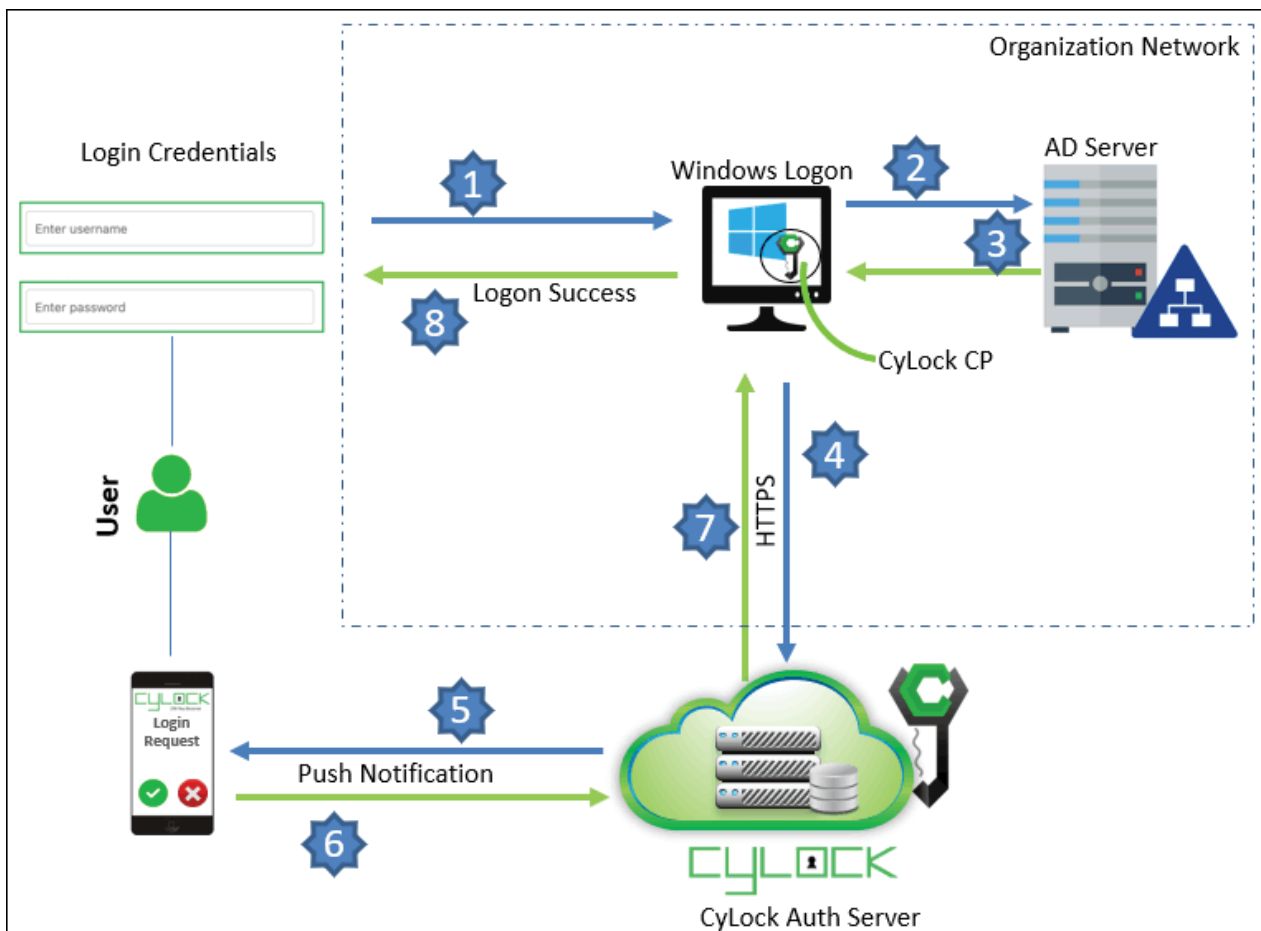# CyLock MFA for Windows Logon

The standard username and password system for Windows logon is not fully secure due to vulnerabilities such as weak passwords, password reuse, phishing attacks, and the risk of credential stuffing. Attackers can exploit these weaknesses through various means, including brute force attacks, keyloggers, and social engineering. With only a username and password, there is no additional verification layer, making it easier for unauthorized access in the event of compromised credentials. Multi-factor authentication (MFA) addresses these issues by requiring an extra layer of authentication, significantly enhancing security by demanding something the user knows and something they have, like a mobile device, for access, thereby mitigating these vulnerabilities and bolstering security.

CyLock supports the following scenarios during logon to Windows desktop and server through CyLock Credential Provider a custom credential provider built for enabling MFA:

- Local or domain login (Windows Desktop)
- Logins for incoming Remote Desktop (RDP) connections

On top of strong password policies, organizations can enable MFA to provide a more secure Windows logon process. MFA can provide security against cyber-attacks thereby safeguarding enterprise identity and data. The table below lists the authentication types and the security options supported during Windows logon.

Authentication				
MODE	TYPE	SECURITY	MOBILE DEVICES	INTERNET IN MOBILE
🛜 Online	Push	Push, Biometric, PIN	Required	Required
🛜 Online	QR	Biometric, PIN	Required	Required
Offline	CR-OTP	PIN, Biometric	Required	Not Required
Offline	SMS CR-OTP, CR-OTP	PIN, Biometric	Required	Not Required
Offline	SMS POTP, POTP	None	Required	Not Required
Offline	TOTP	None	Not Required	Not Required
Offline	GRID	PIN	Not Required	Not Required

🛜	ONLINE	⊘(offline)	OFFLINE
✳	REQUIRED	⊘	NOT REQUIRED

Currently CyLock MFA for Windows logon is supported in the following client and server operating systems:

Clients:
Windows 10
Windows 11

Servers (GUI and core only)
Windows Server 2016
Windows Server 2019

Benefits of enabling CyLock MFA for Windows Logon

- Enhanced security against password-related breaches and unauthorized access
- Adherence to industry benchmarks and regulations for data security
- Safeguarding sensitive data and confidential information
- Added security for remote and off-network access
- Improved accountability and auditing of user access
- Enhanced user convenience and reduced password fatigue
- Protection against phishing and social engineering attacks

Solutions offered by CyLock MFA

CYLOCK
MFA You Deserve

- Passwordless Authentication
- MFA for Email Login
- MFA for Remote Access
- MFA for Windows Logon
- MFA for Cloud Login
- MFA for MS RDP
- MFA for Transcation
- MFA for SSH
- MFA for Web Apps Login
- MFA for ADFS
- MFA for Cisco ISE
- MFA for O365
- MFA for Network Device Login

CYBERNEXA
Authentication Redefined