Context-based Adaptive Authentication with Yubico and Centrify

The rise of cloud and mobile means that business employees are using more varied devices than ever to access an ever-growing number of cloud and on-premises apps — each with their own username and password. With so many credentials to remember, employees resort to re-using simple passwords across apps and devices which makes it easy for hackers to guess or steal credentials. Centrify and Yubico provide a frictionless security solution that eliminates passwords, bolsters security, and provides secure access to apps, devices, and IT resources.

Centrify Single Sign-on & Provisioning

Eliminate Passwords Wherever Possible and Insist on Multi-factor Authentication for Critical Apps

Corporate data is officially well outside the boundaries of the traditional network. Mobile devices and cloud applications have paved the way for a new type of mobile workforce that demands to be productive anywhere, at any time. Without the protection of the corporate firewall and security perimeter, all that stands between attackers and business data are simple usernames and passwords.

Given the massive amount of credentials that have been compromised in the recent past, it's safe to assume that every password has been stolen, and made available to attackers.

Multi-factor authentication (MFA) reduces the risk of compromised credentials, but is often too cumbersome for end users, or — in the case of smart cards — requires dedicated readers on all end-user devices. Companies are looking to bolster security, and prevent attacks based on compromised credentials: but must balance the security of any solution with employee satisfaction.

Centrify and Yubico Protect You from Hackers Compromising Your Credentials

Centrify Identity-as-a-Service + Yubico YubiKeys = Productive and Safe Users

With password theft rampant, and headline-level breaches a near-daily event, Multi-factor authentication has become critical for every business. Yubico and Centrify provide simple, context-based, adaptive authentication across enterprise users and resources. Whether it's for PIV-based authentication, OATH one-time passwords, or as a physical NFC token for mobile devices — Centrify and Yubico provide IT the flexibility to enforce security without user frustration.

Centrify's Identity Platform provides the policy layer that lets IT create adaptive rulesets to integrate MFA into cloud apps, on-premises apps, servers, smartphones, Macs, and more. And thanks to the simplicity, portability, and flexibility of YubiKeys, users always have a secure second factor that works across devices.

This integration means IT has the flexibility to provide simple Multi-factor Authentication no matter what their authentication requirements. The Centrify Identity Platform leverages multiple capabilities in the Yubikey — PIV, OATH OTP, or physical NFC token — for secure adaptive authentication without hassles.

Centrify can leverage the Yubikey for use cases such as:

• Smartcard AD-based login to Mac or Linux
• Re-authentication for privilege escalation on Windows
• Smartcard login to Centrify’s cloud service for SSO, secure remote access, or administration
• Yubikey OATH H/TOTP for as a second factor for secure SSO to individual cloud applications, or to a portal of cloud apps
• Yubikey as OATH H/TOTP for MFA to servers for privileged session control
• Yubikey as physical NFC token for MFA to secure access to apps on mobile devices

How does it work?

A login can be as simple as plugging the YubiKey into your device and typing a PIN (smartcard login), in order to gain access to a secure cloud application. In other cases users may make use of NFC merely touch the YubiKey against their mobile device for quick and easy authentication to apps, servers, and more. Enrolment is streamlined, and policy is created simply and enforced across all business users.
Centrify is the leader in securing enterprise identities against cyberthreats that target today's hybrid IT environment of cloud, mobile and on-premises. The Centrify Identity Platform protects against the leading point of attack used in data breaches — compromised credentials — by securing an enterprise's internal and external users as well as its privileged accounts. www.centrify.com.

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**Benefits for IT**
- Use Multi-factor Authentication Everywhere
- Protect Sensitive Commands with MFA
- Protect Sensitive Servers with MFA
- Protect High Value Apps with MFA
- Easy to implement using existing AD

**Benefits for End Users**
- Secure single sign-on — across devices
- No passwords to remember or create
- Fast, easy authentication
- Support for all popular mobile devices and laptops
- Logins are no longer a barrier to productivity

**Benefits**
- **Simplify security:** One platform secures all your users, and one Yubikey enables MFA across devices, apps, and servers
- **Speed adoption:** Users get secure access to the apps they need, from the devices they choose — without training or confusion
- **Save cost:** Eliminate helpdesk calls for password reset thanks to secure SSO across devices
- **Meet regulations:** Enable BYOD while still complying with NIST regulations requiring smartcard authentication