

# It's Time to Go Passwordless



Today, nearly every business is an internet business. And digital identity is how the workforce, customers, and partners connect. The average online user has over 90 online accounts, most of which require creating unique digital identities. That means at least 90 unique passwords to remember – not an easy task.

Forrester found that 49% of consumers surveyed reuse their passwords across multiple sites.<sup>1</sup> Simple passwords can get cracked, and complex ones can get captured through credential phishing attacks. All user-selected passwords are inherently vulnerable and are the leading cause of data breaches, revenue loss, and identity theft.

Everyone using the internet today needs easier and more secure ways to authenticate. While there are strong multi-factor authentication (MFA) solutions on the market today, many are proprietary, require complex integrations, and do not provide the level of agility that security and identity teams require. Increasingly, organizations are looking to passwordless technology to streamline the login process for their online customers who demand a better experience and create a competitive advantage for themselves in the marketplace.

The Fast Identity Online 2 (FIDO2) WebAuthn standard for passwordless authentication, approved in March 2019 by the World Wide Web Consortium (W3C), enables businesses to offer passwordless authentication. WebAuthn uses public-key cryptography, where the user's private key never leaves the user's device. The WebAuthn passwordless standard is supported by major browsers and operating systems.<sup>2</sup>

But implementing passwordless authentication often requires custom coding to integrate the technology into existing identity and access management (IAM) systems.

## Go Passwordless – It's Easier Than You Think

ForgeRock Passwordless Authentication provides out-of-the-box integrations for the FIDO2 WebAuthn standard through the ForgeRock Intelligent Access tree framework. Building passwordless user journeys with ForgeRock is easy and configuration is quick. Simply drag in the pre-configured WebAuthn nodes and adjust user journeys to fit any business need:

- Use device information to support Zero Trust security decisions, such as only allowing trusted devices to enable passwordless and usernameless authentication.
- Grant different levels of access to applications or add authentication friction based on the level of device trust, such as “read-only” if the user is on an untrusted device.
- Create passwordless trees once and allow multiple different authenticators to run simultaneously to save on cost and complexity. Users can authenticate with any device that supports FIDO2 WebAuthn.
- Enable usernameless authentication for devices that support storing resident keys.



Figure 1: Passwordless Registration Tree

<sup>1</sup> <https://www.forrester.com/report/Forrester-Infographic-State-Of-Consumer-Authentication-2020/RES162315>

<sup>2</sup> <https://www.nass.org/sites/default/files/2020-05/Yubico%20White%20Paper%20How%20WebAuthn%20Works.pdf>

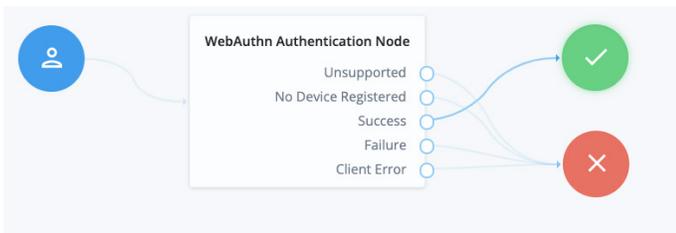


Figure 2: Passwordless Login Tree

## Passwordless Authentication Benefits

**Secure:** Login credentials are unique for every website, and never leave the user's device. Credentials are never transmitted on the wire, eliminating person-in-the-middle attacks.

**Convenient:** Uses simple built-in methods, such as fingerprint readers or cameras, or leverages easy-to-use FIDO security keys. Consumers can select the device that best fits their needs.

**Standards-based:** Secure, interoperable, and agile enough to meet new business demands.

**Easy to Implement out of the box:** Pre-built and pre-integrated authentication and registration nodes are ready to plug into ForgeRock Intelligent Access trees. No custom coding is required.

## Leverage Third-Party Technology for Flexibility and Choice

Flexibility and choice are important capabilities to have as your unique requirements shift and grow. ForgeRock provides both out-of-the-box and third-party passwordless solutions through the [ForgeRock Trust Network](#), including biometric systems, decentralized passwordless authentication, and hardware authenticators.

## Going Passwordless Is Simple. Get Started Today.

Providing differentiated, secure, and cost-saving user experiences that flow is simple. In fact, it takes only minutes. To learn more about ForgeRock Passwordless Authentication, download the white paper, [Go Passwordless. Authenticate Securely](#) today.

With ForgeRock Passwordless Authentication, you can create a secure and seamless login experience by authenticating with any credential on the user's device that supports FIDO2 WebAuthn.

## ForgeRock Passwordless Authentication Capabilities

- Cross-Platform Authenticators
- Platform Authenticators
- Device Attestation Formats: Packed, FIDO U2F, None, TPM (examples: Apple TouchID, Windows Hello)
- Device Attestation Types: NONE, BASIC, SELF, CA (AttCA)
- MFA
- Passwordless
- Usernameless
- DisplayName and UserName
- Flexible Origins
- Trust Anchoring
- TrustStore for Supported Device Certs
- TrustStore CLI Tool
- FIDO Alliance Metadata Service
- Attestation data available to Authentication Nodes
- New Device Storage Node
- Enhanced Auditing

### About ForgeRock

ForgeRock®, (NYSE: FORG) is a global leader in digital identity that delivers modern and comprehensive identity and access management solutions for consumers, employees and things to simply and safely access the connected world. Using ForgeRock, more than 1300 global customer organizations orchestrate, manage, and secure the complete lifecycle of identities from dynamic access controls, governance, APIs, and storing authoritative data – consumable in any cloud or hybrid environment. The company is headquartered in San Francisco, California, with offices around the world. For more information and free downloads, visit [www.forgerock.com](http://www.forgerock.com).

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