### Passwordless is just the beginning. The future is Keyless

Adopt zero-trust authentication to protect your remote workforce and enable strong customer authentication with just a look. motivation

### your workforce shouldn't compromise

### Let's face it, we all hate passwords!

\$70	81%	\$4M	24h	
average cost for each password reset	of hacking related breaches used weak or stolen passwords	average total cost of a data breach	average employee spends 24 hours per year just on logins	
(Forrester Research)	(Verizon Data Breach Report 2017)	(Ponemon Data Breach Report 2019)	(Verizon Data Breach Report 2019)	
Shared secrets	Password reuse <b>()</b> Lost/stolen tol	kens 💌 Keyloggers 🕡 F	Phishing 🕘 Credential stuffing	

the world is going passwordless

51%		\$5bn		2.3bn
of passwords are reused across services (University of Oxford)		Facebook fine for years of privacy violation (Reuters)		credentials stolen in 2017 alone (Shape Security)
Simplicity	VS.	Privacy	VS.	Security

By 2022, Gartner predicts that 60% of large and global enterprises, and 90% of midsize enterprises, will implement passwordless methods Κ



### passwords are of the past

#### Passwords Provide Poor User Experiences

The average enterprise uses 1,400 different cloud services. (<u>SkyHigh Networks</u>) The average business user must log in with as many as 190 passwords. (<u>Security Magazine</u>)

#### 8

#### Passwords Are Easily Compromised

Passwords that are easily detectable or reused often are vulnerable to phishing attacks. Over 80% of hacking breaches involve brute force or the use of lost or stolen credentials.(<u>Verizon</u> <u>DBIR</u>)



#### Passwords Are Costly and Burdensome to Manage

20-50% of all IT help desk tickets each year are for password resets. (<u>Security Boulevard</u>) Each year, U.S.-based enterprises allocate over \$1 million to password-related support costs. (<u>Forrester</u>)

#### And many more reasons...

KEYLESS

new normal

## increasing security demands

### Strategic trends in new normal

- 1 Unlimited number of devices
- 2 Transition to the cloud
- 3 Diverse end-user requirements
- 4 Digital transformation
- **5** Business resilience

### Protect your workforce with ease

- Enroll once, use on any device
- One solution, any cloud or on-prem
- Identification with built-in MFA
- Easy to deploy, simple to manage
- Effective, secure and scalable

### unique capabilities powered by unique technology

#### 

#### Software Based -Hardware Agnostic

Keyless does not rely on the device hardware or sensors, and can thus be deployed on a large set of devices and appliances

No reliance on Face ID or other  $3^{rd}$  party tech

#### Authenticate Users -Not Devices

Keyless identifies users across every touchpoint, so you can make sure that the user who is logging in is actually the correct user

Unique identity for every user

Enroll Once -Use everywhere

Users enroll once in a 5second process and can use it across all devices and touchpoints and enable seamless recovery

Multi-device support and simple recovery

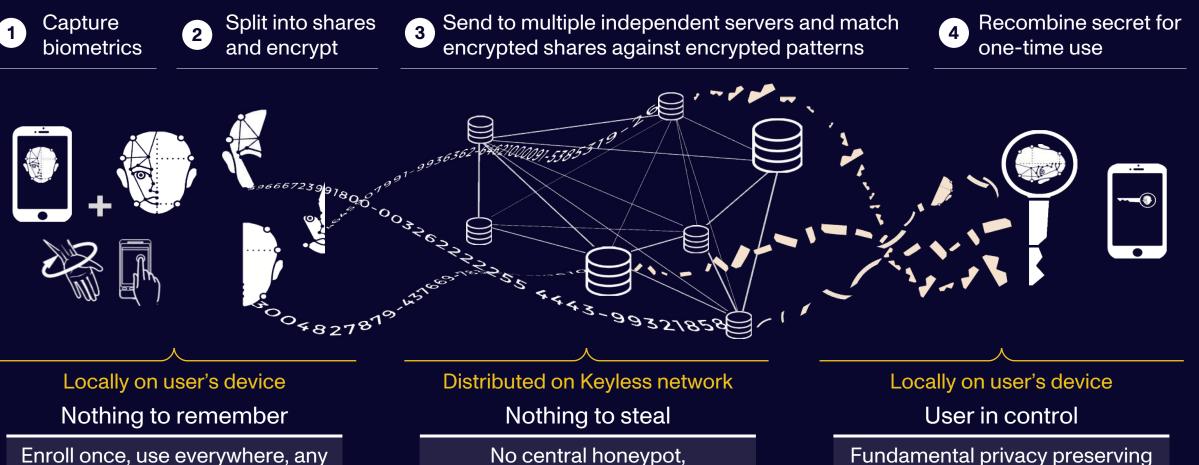
#### No Biometrics/PII Stored Anywhere

Keyless exceeds strictest privacy compliance requirements since no PII/ biometric data is stored anywhere

Exceeds privacy compliance beyond GDPR technology

### unique technology





platform, any device

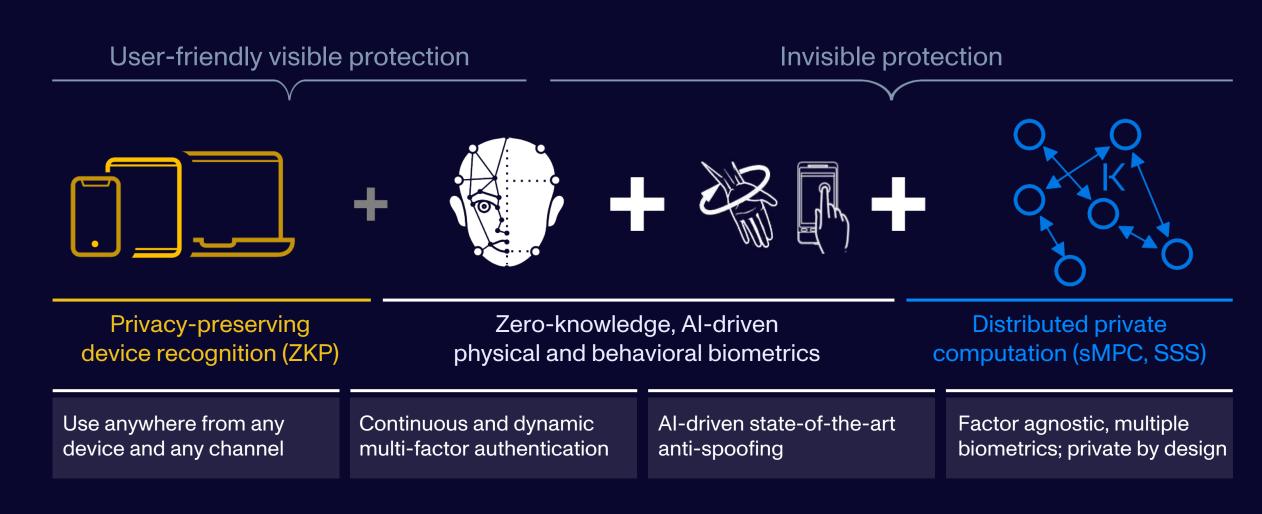
No central honeypot, no data on user devices

Fundamental privacy preserving technology

technology

# multi-factor by design





### **Passwordless MFA done right**

Keep your business ahead of ever-changing security threats and adopt zero-trust authentication to protect your workforce while enhancing employee experiences.

# Nothing to remember

Enjoy a frictionless user experience and reduce operational costs with userfriendly biometrics

### Enroll once, use everywhere

- → Unify the experience across devices
- $\rightarrow$  Increase productivity
- → Reduce friction and MFA fatigue

# Nothing to steal

Reduce password-based attacks and risks of data breaches thanks to Keyless zero-knowledge architecture

### Authenticate people, not devices

- → Eliminates fraud, phishing and credential reuse
- → Reduce the risk of data breaches
- $\rightarrow$  Enable MFA by design

### Privacy compliant

Exceed strict compliance requirements under GDPR without the need to store PII/biometric data anywhere

#### Private by design, no PII/biometrics involved

- → Reduce your compliance burden
- → Build trust with your employees
- $\rightarrow$  Reduce the risk of fines

# Easy to deploy

Complement your existing IT infrastructure seamlessly by leveraging pre-built standard integrations to all major IAMs

### Easy to deploy, set up and run

- → Deploy on-premise, in the cloud or in hybrid setting
- $\rightarrow$  Enable BYOD policies

## **Keyless Authenticator**

One authenticator for many use cases

### **Passwordless SSO**

Keyless integrates with your existing IdP to enable passwordless MFA for your enterprise apps in minutes.

#### **Desktop MFA**

Keyless eliminates passwords from your Windows 7,8 and 10 login experience and offers built-in MFA with one look.

#### **Remote Login**

Keyless enables your workforce to securely authenticate to your VPNs - on any device, from any location.



Secure access to your internal applications

### Passwordless SSO

Keyless integrates with your existing identity provider to enable passwordless MFA for your enterprise apps and SSO in minutes



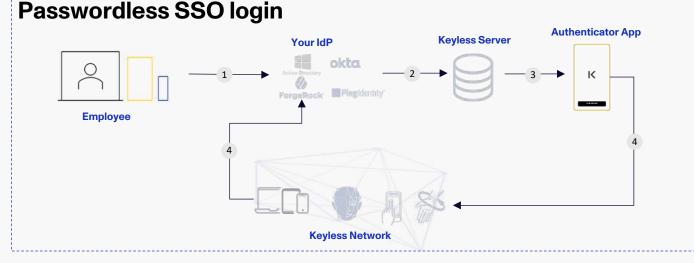
Go full passwordless of add Keyless as a second and third factor Keyless plugs into your existing IAM using standard protocols or native plugins



Ensure only the right people have access to the right resources and apps



Apply behavioral biometrics to remove user friction while enhancing security



Integrate with your existing single-sign on provider: **Reduced IT time & costs** Rapid time-to-value Strong security posture Better user experience Workforce Authentication ကိုကို Passwordless MFA Across the Enterprise к .... KEYLESS



Over 80% of hacking breaches involve brute force or the use of lost or stolen credentials. (Verizon DBIR) Secure access to your Windows workstations

### **Desktop MFA**

Eliminate passwords from your Windows 7,8 and 10 login experience and improve security with just a look

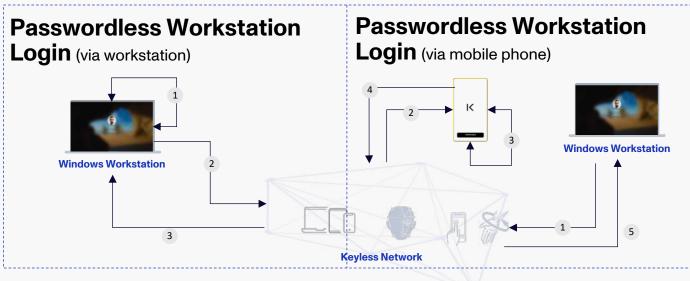


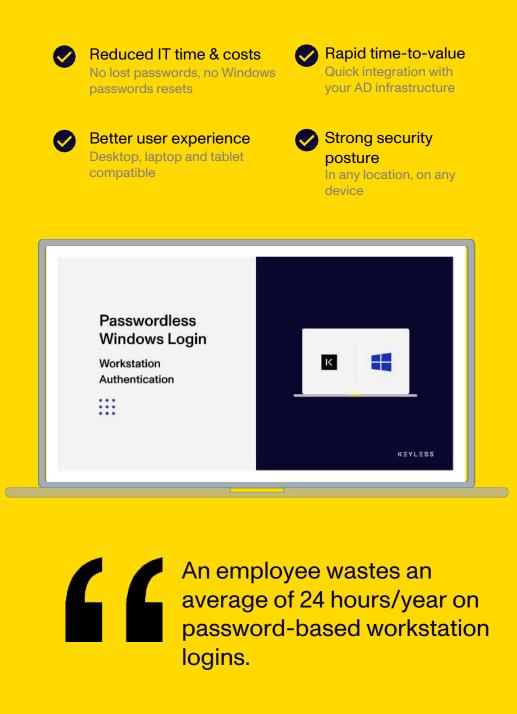
Authenticate through any mobile device or directly from your Windows workstation Offline MFA for cases where internet connectivity is not available

- No reliance on third
- party biometrics vendors



Users enrolls once – and can then use to access all associated workstations





Secure access to your virtual privates networks

### **VPN Access**

Keyless enables your employees to securely authenticate to your virtual private networks - on any device, from any location



SAML/OIDC connectors to your preferred identity provider

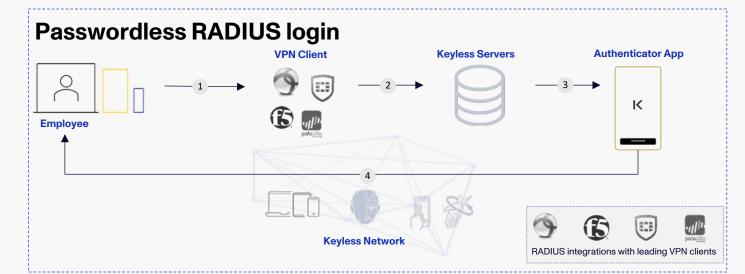


Step-by-step documentation and best practices for IT admins and end users Seamless on any user

hardware; unifying the

UX for all employees

device, OS or





Secure access to your remote desktops

### **RDP and VDI Access**

As remote work rises, the use of remote desktops expands across the enterprise. Keyless securely authenticates remote desktop connections with just a look.

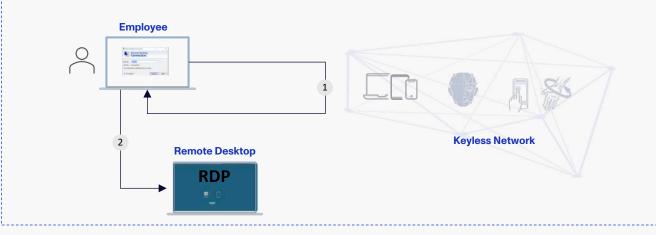


No mobile phone required – MFA directly from your workstation Native MFA for every desktop access – local or remote.



Step-by-step documentation and best practices for IT admins and end users Seamless on any user device, OS or hardware; unifying the UX for all employees

#### Passwordless RDP authentication (from workstation)







Significant growth in the number of attacks targeting Microsoft's Remote Desktop Protocol during the Covid-19 pandemic. (McAfee)

#### KEYLESS

partners

### seamless integration

Κ

Modernize your existing identity infrastructure with pre-built integrations and get started in minutes



And other identity providers based on SAML/OIDC based integrations

solution

### the competitive edge



		<b>K</b> Keyless	Hardware token	Mobile Push	OOB SMS or Email	Server-side biometrics	رین] Local biometrics
UX	Any device w/ camera (HW/OS agnostic)	$\checkmark$	$\times$	~	~	~	×
	Consistent experience across all devices	~	~	~	~	×	×
Security	Built-in MFA with just one look	~	×	×	×	×	~
	Spoofing-proof, phishing resistant	~	×	×	×	×	×
Compliance	Exceeds GDPR compliance	~	~	~	×	×	~
	No PII stored or processed anywhere	~	~	~	~	×	×
Costs	No password related support calls	$\checkmark$	×	×	×	~	~
	Easy integration and maintenance	~	×	~	~	×	×

### case study

#### Secure remote access for virtual exams

In response to COVID-19 lockdowns, LUISS Guido Carli University partnered with Keyless and Cisco, to allow their students to sit their summer exams remotely





#### Keyless Authenticator<sup>TM</sup> Simple, secure, and above all, private



Nothing to remember No central honeypot, no data on user device

Ubiquitous experience

Any platform, any

device, anywhere

authentication

## Nothing to stealPrintOne look multi-factorGD

Anti-fraud protection Eliminates phishing and man-in-the-middle

Privacy compliance GDPR compliant, private by design

> Easy to deploy Integrates with all identity providers

"The integration with LUISS and Keyless is a concrete example of the potential that can be unleashed when best available technologies come together. We've each approached this integration with openness, flexibility and safety in mind. In doing so, we've been able to ensure thousands of students can continue with their studies, pass their exams and graduate," said Agostino Santoni, CEO of Cisco Italy.

### case study



#### Passwordless MFA for Remote VPN Access

In response to COVID-19 lockdowns, a European digital bank partnered with Keyless to secure their remote workforce with seamless, secure remote access to VPNs and remote desktops







Nothing to remember No central honeypot, no data on user device

Nothing to steal

One look multi-factor authentication

Ubiquitous experience Any platform, any device, anywhere Anti-fraud protection Eliminates phishing and man-in-the-middle

Privacy compliance GDPR compliant, private by design

Easy to deploy Integrates with all identity providers

#### Eliminating passwords in the financial sector



### rapid proof of value

#### Pilot-to-production 1. Pilot 2. Production Simple subscription High assurance rapid proof **Dedicated Keyless pilot** Staged roll-out into your • of value framework environment production environment

- Zero upfront long-term commitment
- ٠ Pilot-to-production execution plan tailored to your business goals
- ٠ Seamless integration with existing IAM system
- Co-development support

- Clear success metrics and fixed timeline
- Controlled number of users and use-cases
- Dedicated expert to assure success
  - Simple automated promotion to Keyless production

- Dedicated roll-out support
- Third party security verified Keyless infrastructure
- . **Enterprise SLAs**
- SaaS (cloud agnostic) or on premise, or hybrid

#### Small to medium – up to 1,000 users

- Subscription based on number of users
- 2 bundles available (Keyless Base and **Keyless Pro**)
- Discounts on multi-year subscription

#### Large to unlimited – from 1,000 users

- Subscription for large user bases across tiers up to unlimited use
- Discounts on multi-year subscription • and tailored pricing apply

#### Effort: ~1 week

Effort: ~2 weeks

Deployment and dedicated support from experienced Keyless team and trusted Keyless partners specialized in your industry

# Thank you!

https://keyless.io

⊠ info@keyless.io

in @KeylessTech

materials

### supporting materials (1/2)

Document	Link	Videos
Company presentation	click here	Strong Customer Auther
Product presentation	click here	Customer MFA
One-pager - Workforce	click here	Windows Login
One-pager - Consumer	click here	Windows Login - Workstatio
Use case: Financial Services	click here	Workforce MFA
Use case: Keyless for PSD2	click here	VPN Authentication
Whitepaper	click here	RDP Authentication
Technology : How it works	click here	VDI Authentication
		Demo - OKTA Integration
		Demo - ForgeRock Integratio
		Demo - Auth0 Integration

### supporting materials (2/2)

#### Thought Leadership

- Why you must go passwordless
- Embracing user-friendly authentication as strong security in Europe
- Identity is the new perimeter how can companies protect it?
- What is Strong Customer Authentication?
- How Keyless uses zero-knowledge proofs to
  protect your privacy
- Why legacy security models don't work?
- What is zero-trust security?
- The 10 most common cybersecurity threats

#### News and awards

- Official Partnership Microsoft Azure AD B2C
- Debut in Gartner's Hype Cycle for IAM
- Live with LUISS University and 10K students in partnership with Cisco
- <u>#1 B2B Startup in South Europe (\$500K prize)</u>
- <u>#1 Biometric Authentication Solution in Banking</u>
  <u>Tech Awards</u>
- <u>#1 Startup in Italy Telsy challenge</u>
- <u>#1 Startup in BNP Paribas challenge (€20K prize)</u>
- <u>#3 Startup in Slingshot 2020 Global (S\$50K prize)</u>
- <u>#4 Top 7 Passwordless solution</u>
- <u>#Top 10 anti-phishing solution</u>