

 Microsoft Security

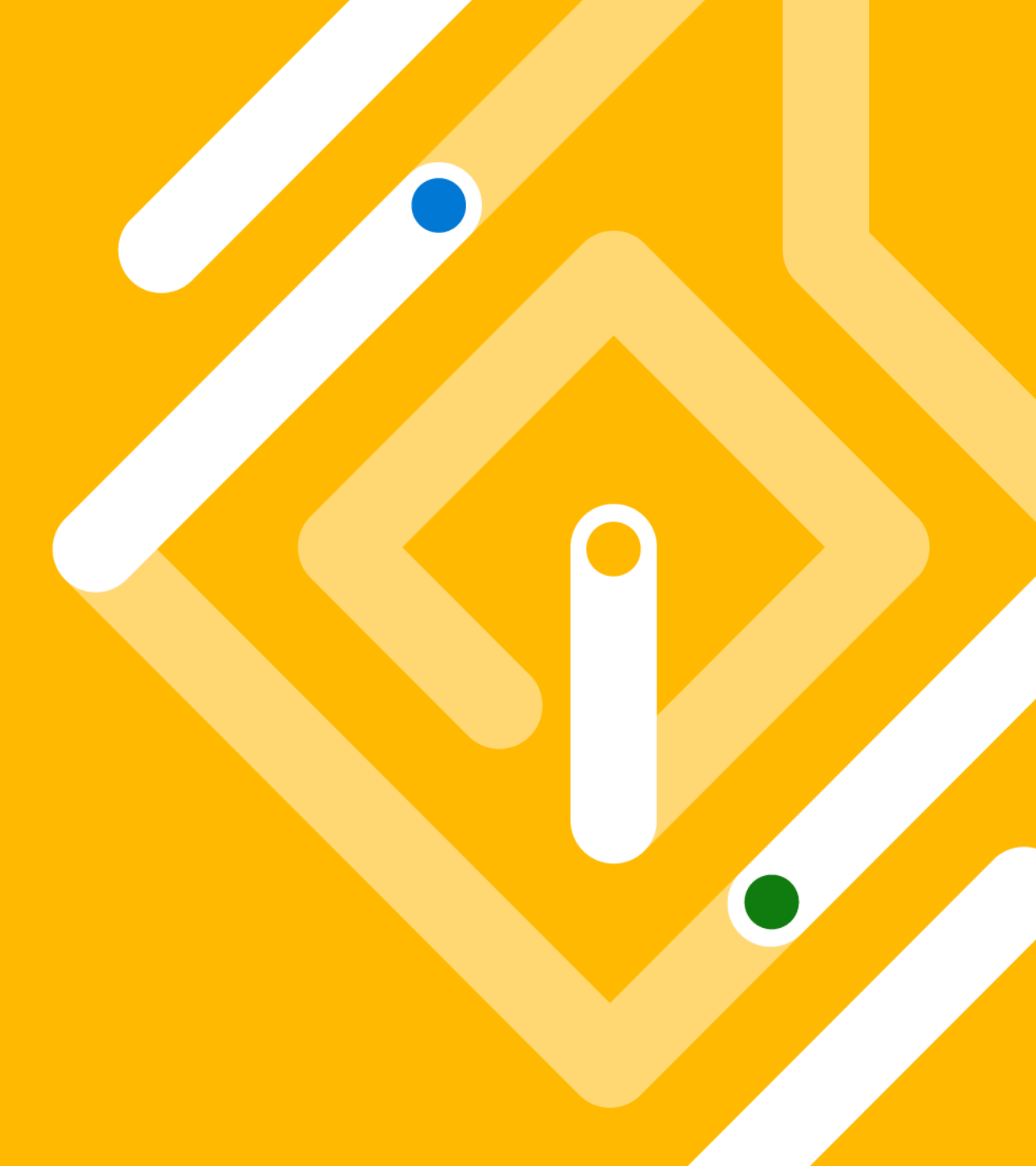
 cacloud

# Zero Trust Identity

Azure Active Directory



**Current landscape**



# Identity challenges for today's organizations

**Adapt to the new hybrid work** requiring seamless, flexible experiences



**Evolving compliance regulations** with data privacy and security implications



**Explosion of apps**, on and off the corporate network, **needing secure access**

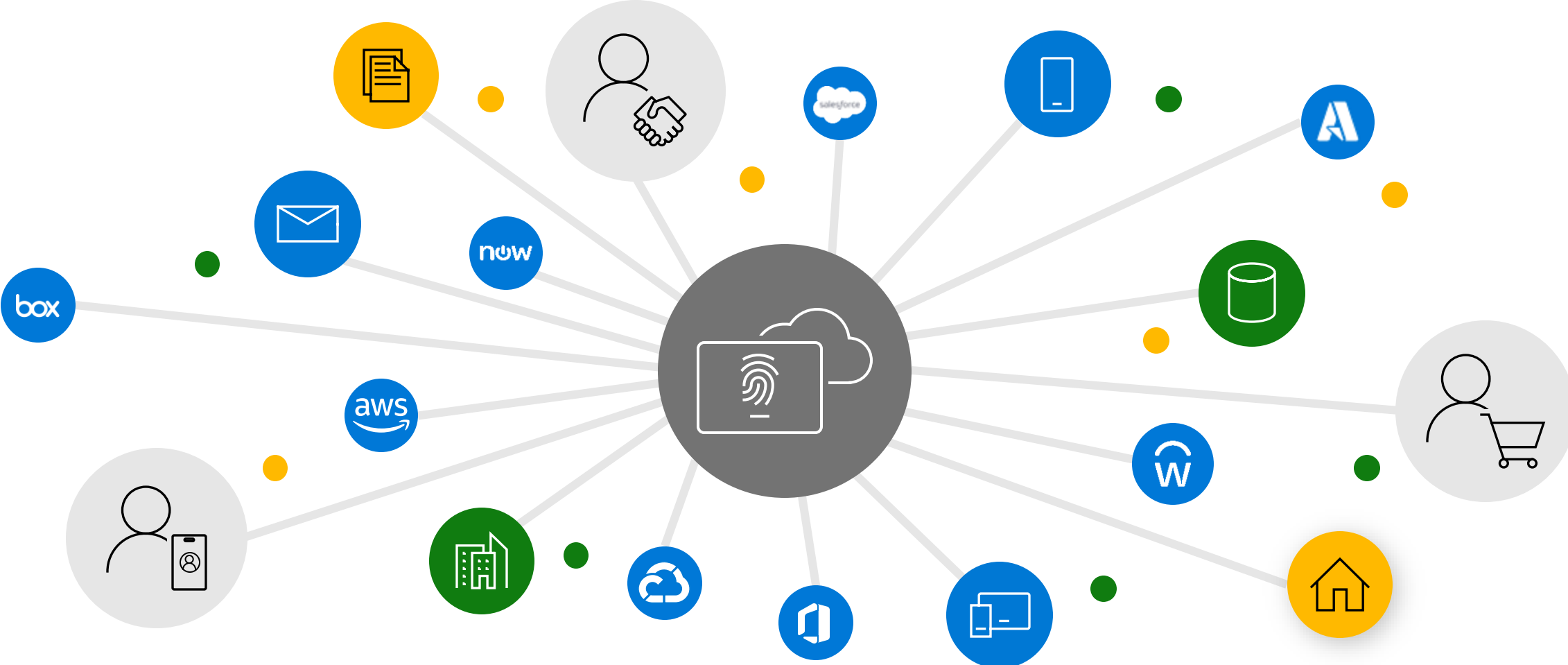


**Demands for increased productivity**, security, and IT modernization

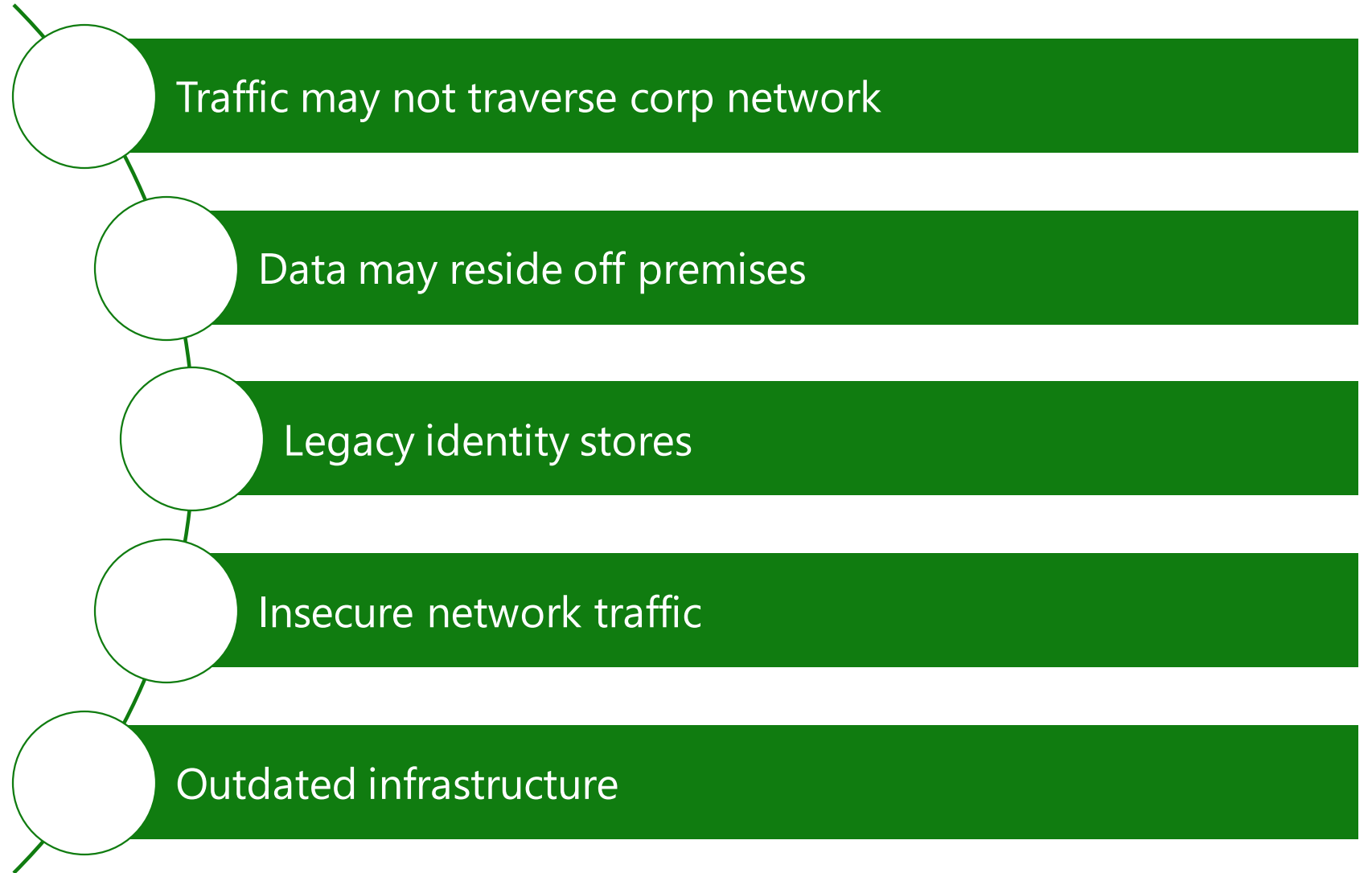
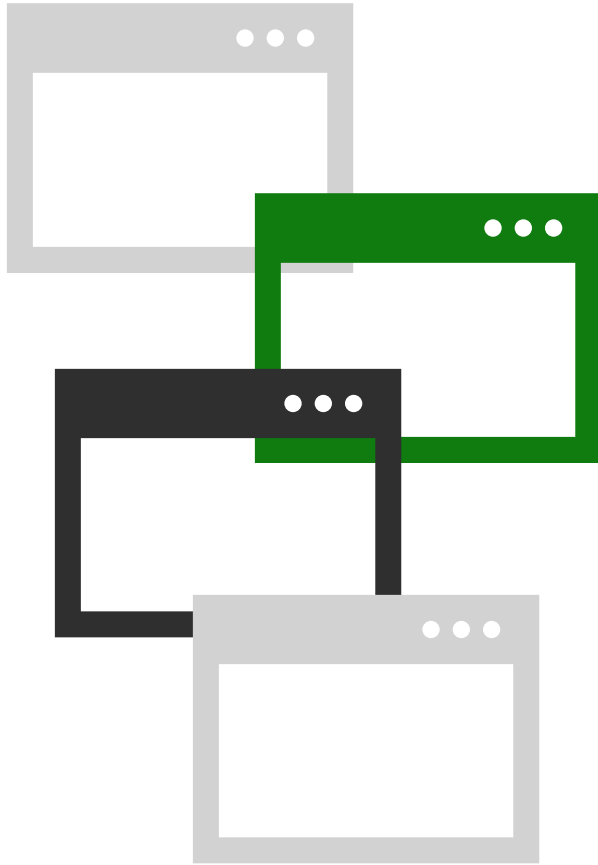


# Identity is the control plane

Secure access for a connected world



# Your app story today



# How we see applications

SaaS Applications

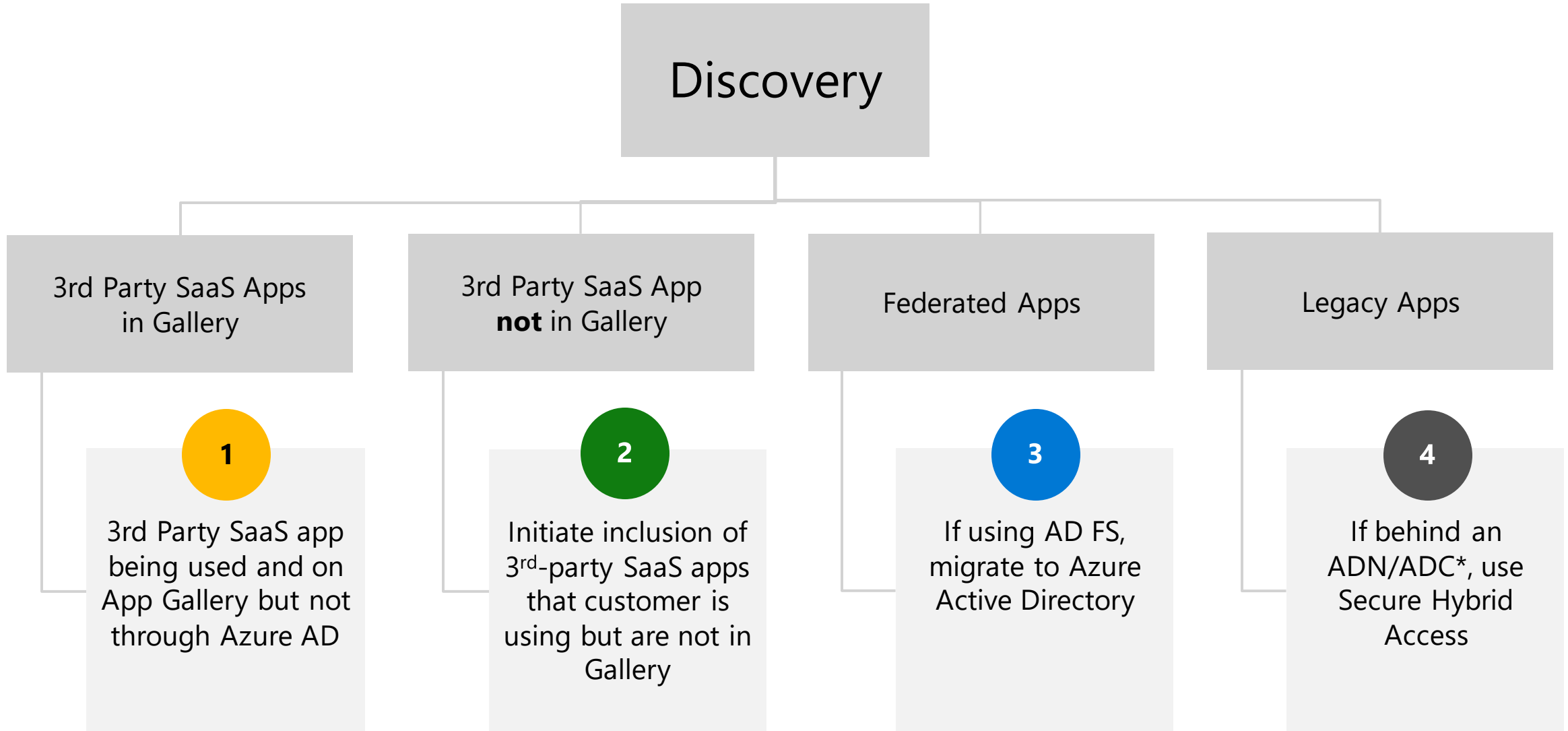
- Cloud Hosted Applications
- Server Hosted Applications

Line of Business Applications

- Windows Integrated auth
- LDAP auth
- Header-based auth
- Basic/Forms based auth
- SAML 1.1/WS-Fed auth
- OIDC Oauth Modern

# Application prioritization

## Discovery



\* Application Delivery Network/Application Delivery Controller







# Identities

## Zero Trust Objective

Protect identities against compromise and secure access to resources



# Verify and secure every identity with strong authentication



**Secure access to all applications**  
with single sign-on



**Verify identities**  
with Multi-factor authentication (MFA)

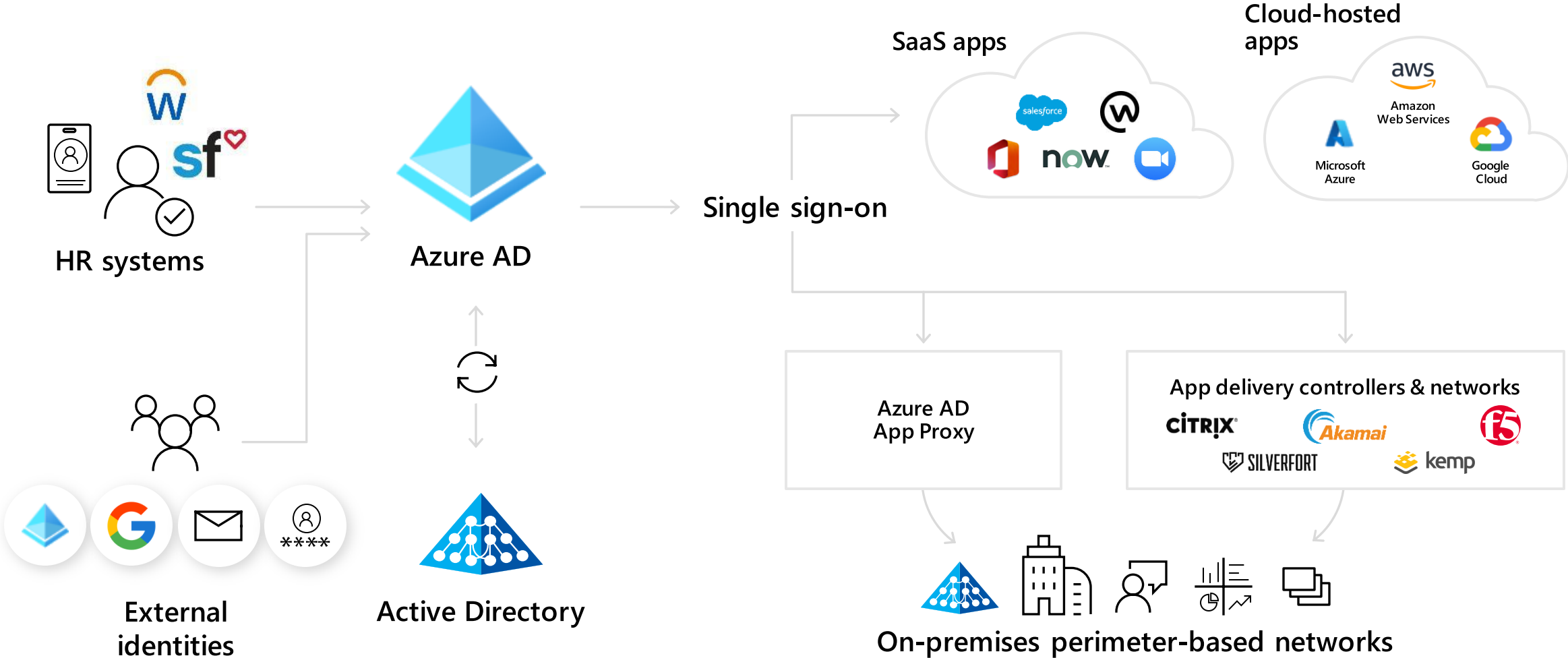


**Control access with smart policies** and risk assessments



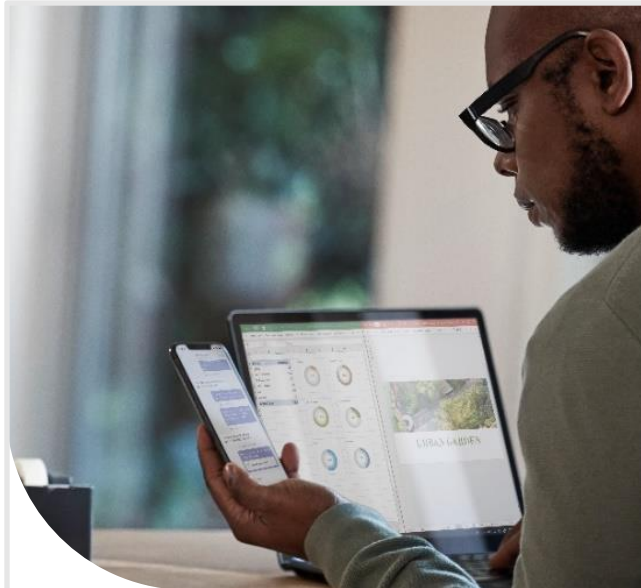
**Enforce least privileged access**  
with strong governance

# Secure access to all applications with single sign on



# Multi-factor authentication

Verify user identities with strong authentication



We support a **broad range of multi-factor authentication options**

Including passwordless technology



Microsoft Authenticator



Windows Hello



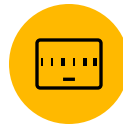
FIDO2 Security key



Biometrics



Push Notification



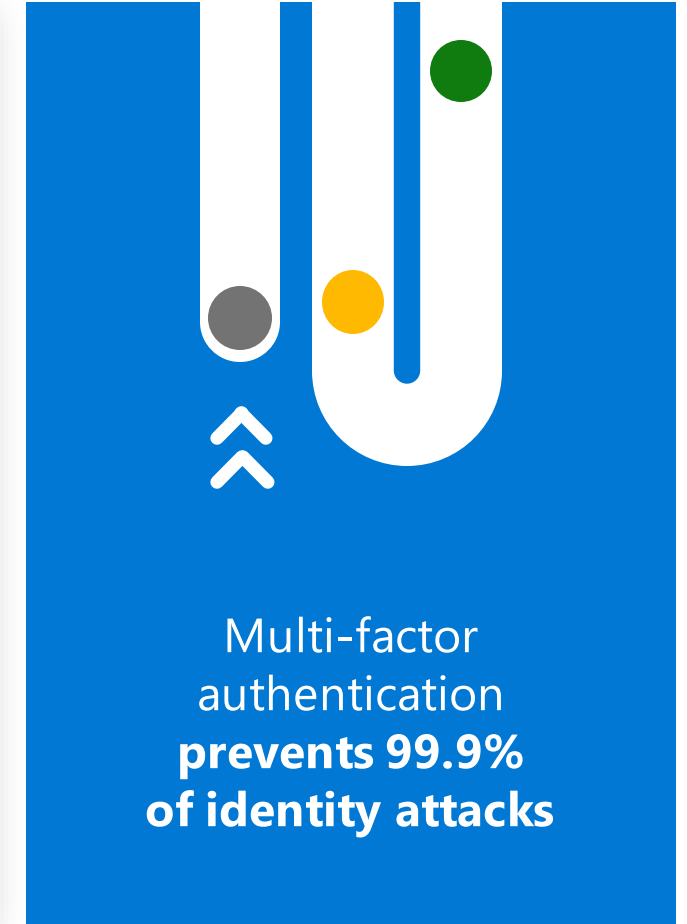
Soft Tokens OTP



Hard Tokens OTP



SMS, Voice



Multi-factor authentication prevents **99.9%** of identity attacks

# Control access with smart policies and risk assessments

- Azure AD
- ADFS
- MSA ID (Microsoft Account Identity)
- Google ID

- Android
- iOS
- MacOS
- Windows
- Microsoft Defender for Endpoint

- Geo-location
- Corporate network

- Browser apps
- Client apps

## Signal

Employee and partner users and roles

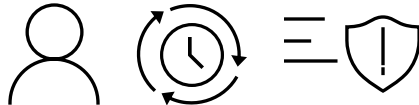
Trusted and compliant devices

Physical and virtual location

Client apps and auth method

## Decision

### Policy



User and sign-in risk

## Enforcement



Allow/block access



Limited access



Require MFA



Force Password reset

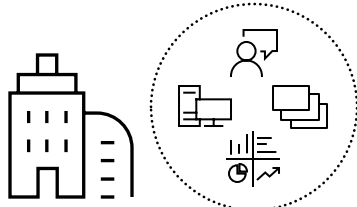


Block legacy authentication

## Microsoft Cloud



Cloud SaaS apps



On-premises and web apps

# Enforce least privileged access with strong governance



## Identity lifecycle

Enable HR-driven user provisioning and automate lifecycle management



## Least privileged access

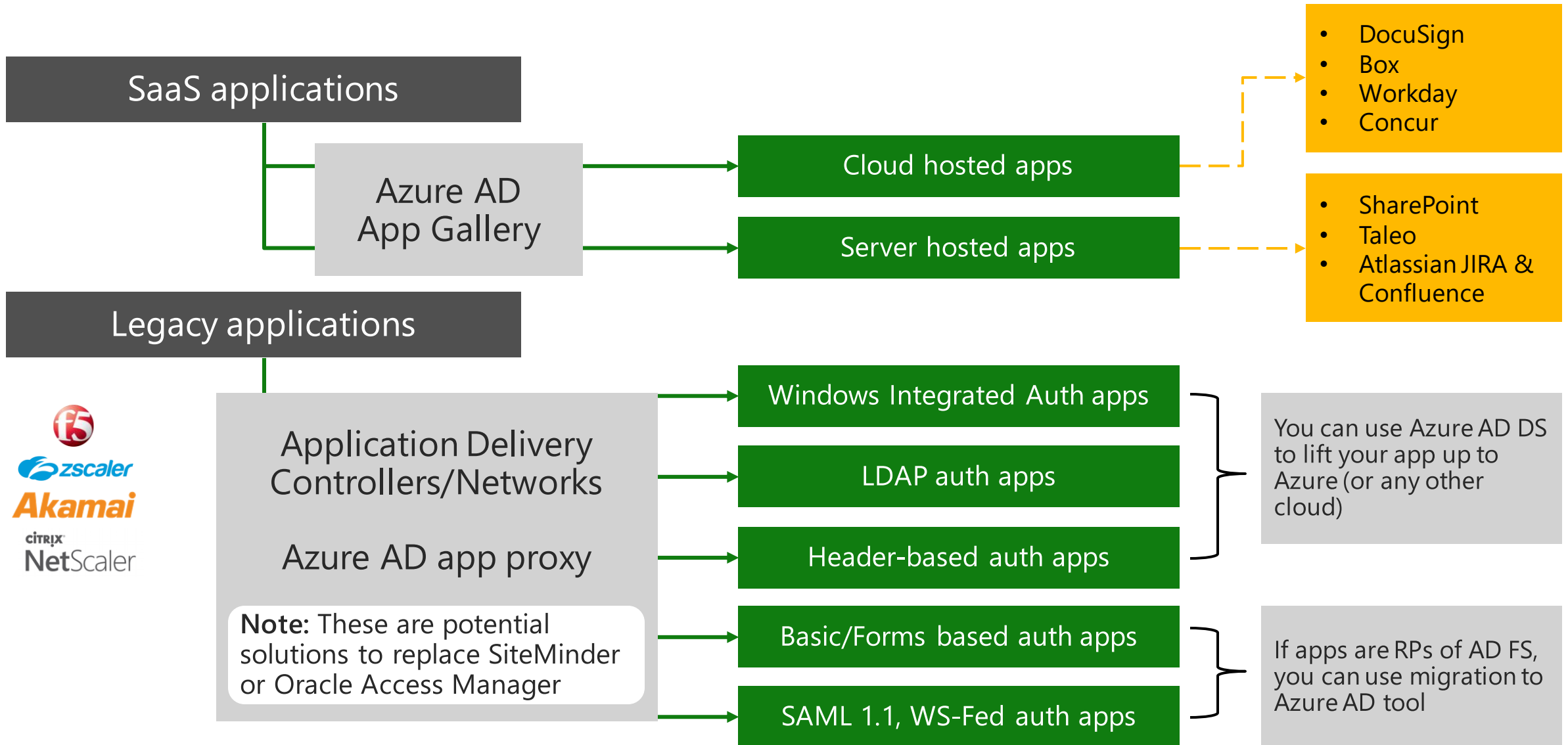
Mitigate risk of privileged access using time-limited access, and role-based access control



## Audit report

Ensure you have visibility into who has access to what

# Azure AD App Auth integration overview



# Integrate private apps with Secure Hybrid Access Partners



- Leverage your existing application delivery controllers and networks, VPNs or software defined perimeters

- Support for broad range of legacy protocols:

Kerberos

RDP

Header-based Auth

Radius

NTLM

SSH

LDAP

non-HTTP

## New partners

Silverfort

Perimeter 81

Datawiza

Strata

## App Delivery Controllers and Networking providers

citrix



## VPNs and Software Define Perimeter partners



FORTINET



perimeter 81

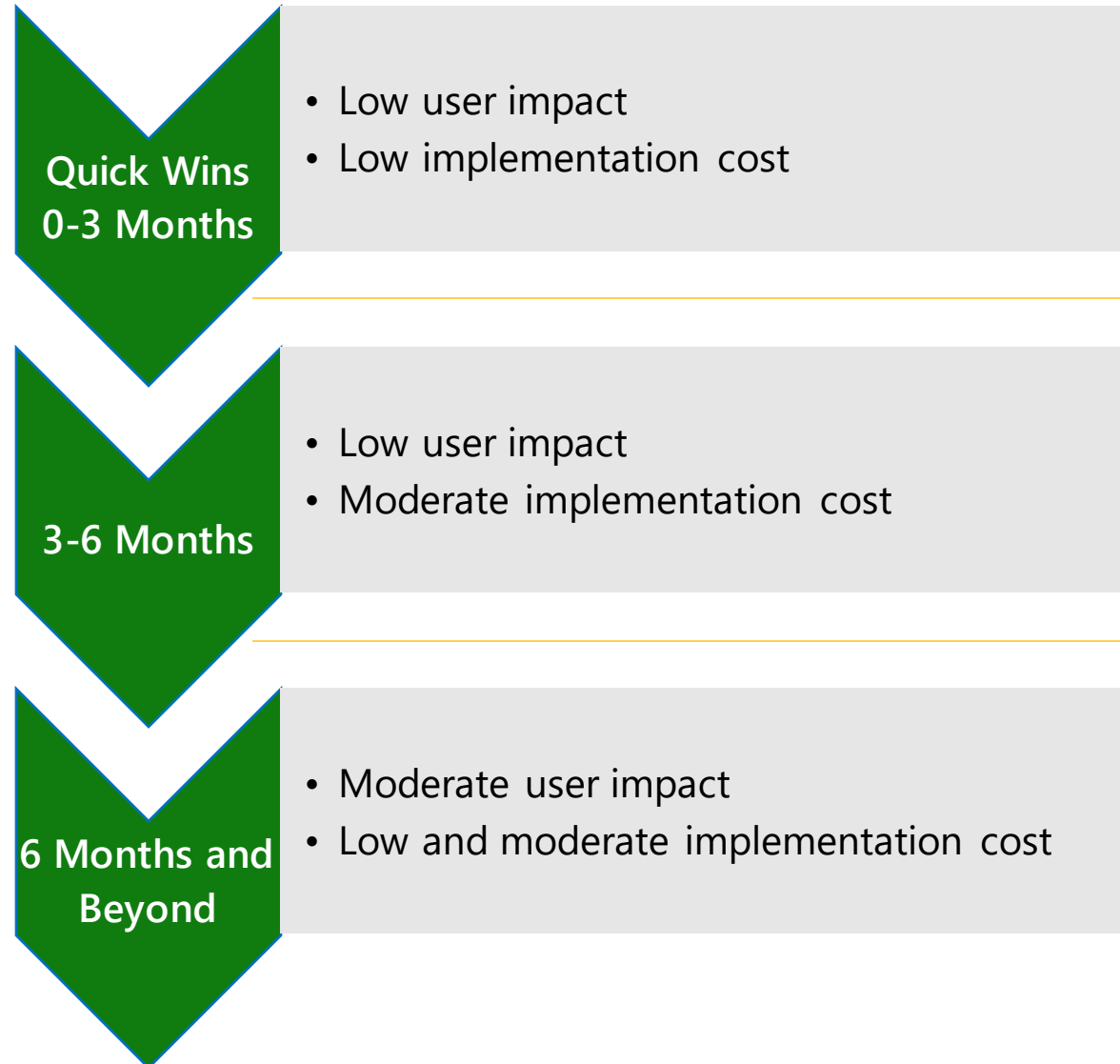


STRATA





# Recommended Strategy



## Quick Wins 0-3 months

- Enable MFA for all global admins
- Ensure all users can complete multi-factor authentication for secure access
- Enable policy to block legacy authentication
- Turn on sign-in risk policy

## 3-6 Months

- Enable self-service password reset

## 6 Months and Beyond

- Enable MFA for all users
- Do not expire passwords
- Stop clear text credentials exposure
- Use limited administrative roles

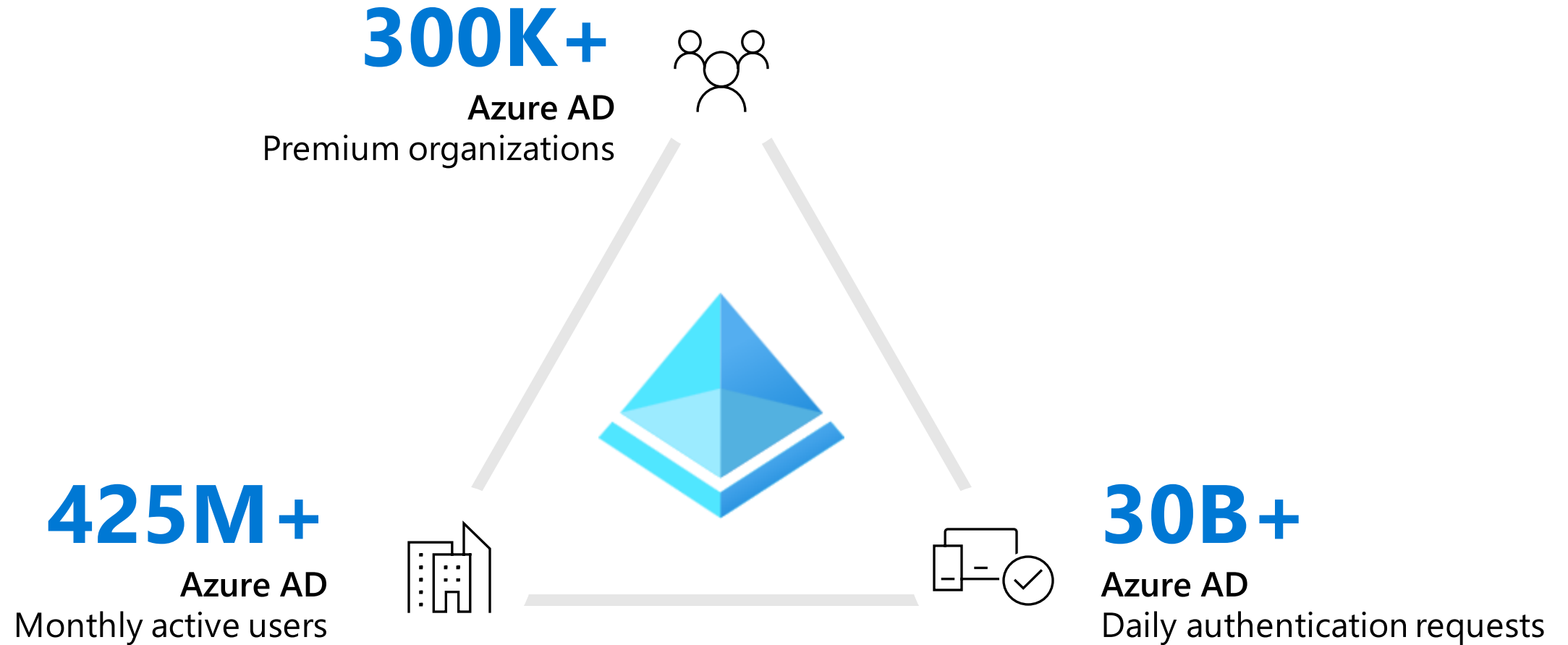
# High-level Deployment Plan

1. Work out a draft concept of MFA that you want to deploy in your organization.
2. Use the “Design Decision Points” spreadsheet to define MFA requirements and settings:
  - a. Choose way to enable MFA
  - b. Choose users and cloud applications that will need MFA
  - c. Choose allowed second authenticator factors
  - d. Determine other MFA configuration factors
  - e. Decide if you need other types of controls (such as Terms of Use or custom)
3. Choose small set of test users.

NOTE: if necessary, a choose different sets of test users for different conditional access policies
4. If hardware security keys are to be used, obtain and distribute them to test users.
5. Enable MFA to the test set of users and allow enough time to verify that it works as expected.
6. Use feedback from test users to modify you MFA deployment plan, if necessary.
7. Run awareness campaign that MFA will be coming to your organization.
8. If hardware security keys are to be used, obtain and distribute them to remaining users.
9. Enable MFA to users and cloud applications in scope.
10. Monitor, troubleshoot and adjust your MFA deployment.

# Azure AD—the world's largest cloud identity service

Thousands of organizations, millions of active users, billions of daily requests

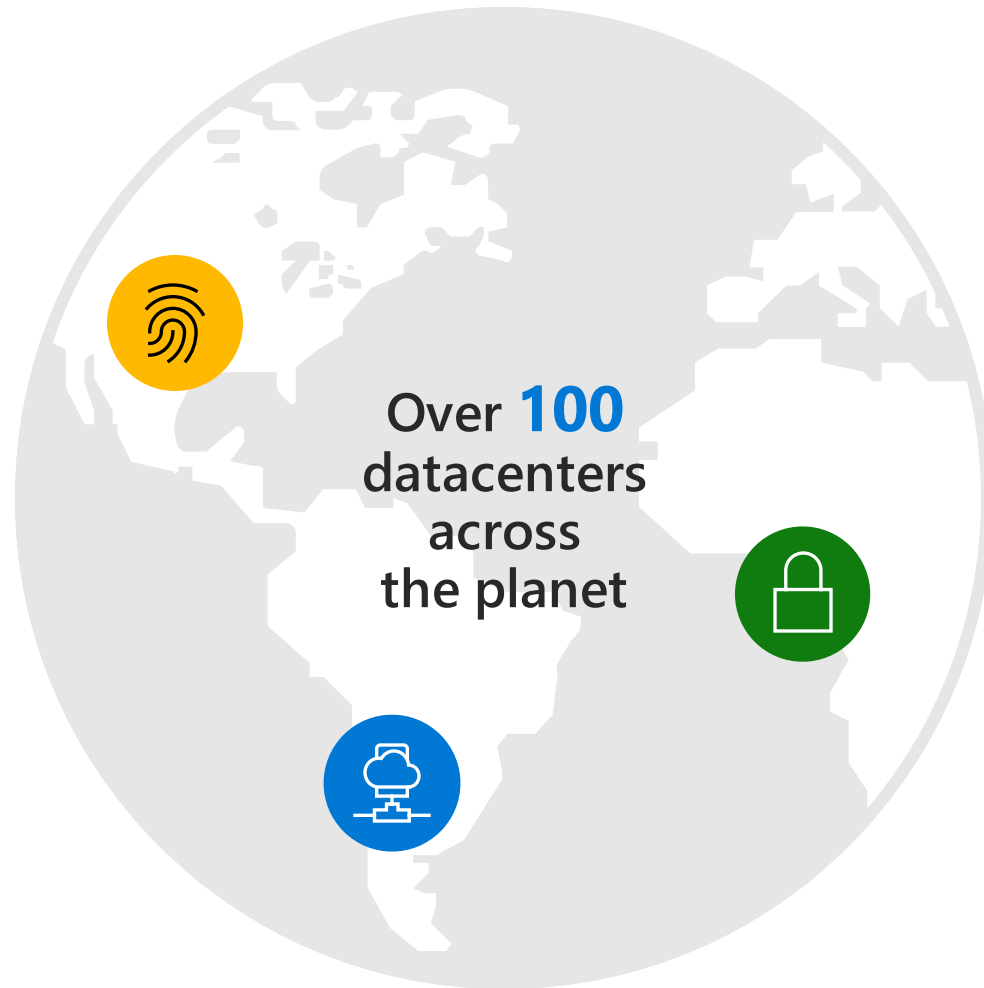


# Engineered for availability and security

Cloud-native, hyper-scale, multi-tenant architecture

Each **physical datacenter** protected with world-class, multi-layered protection, and engineered for maximum availability

**Global cloud infrastructure** with secure hardware and data segregation



**99.99%**

New Azure AD  
Service Level Agreement  
(in effect from April 1<sup>st</sup>, 2021)

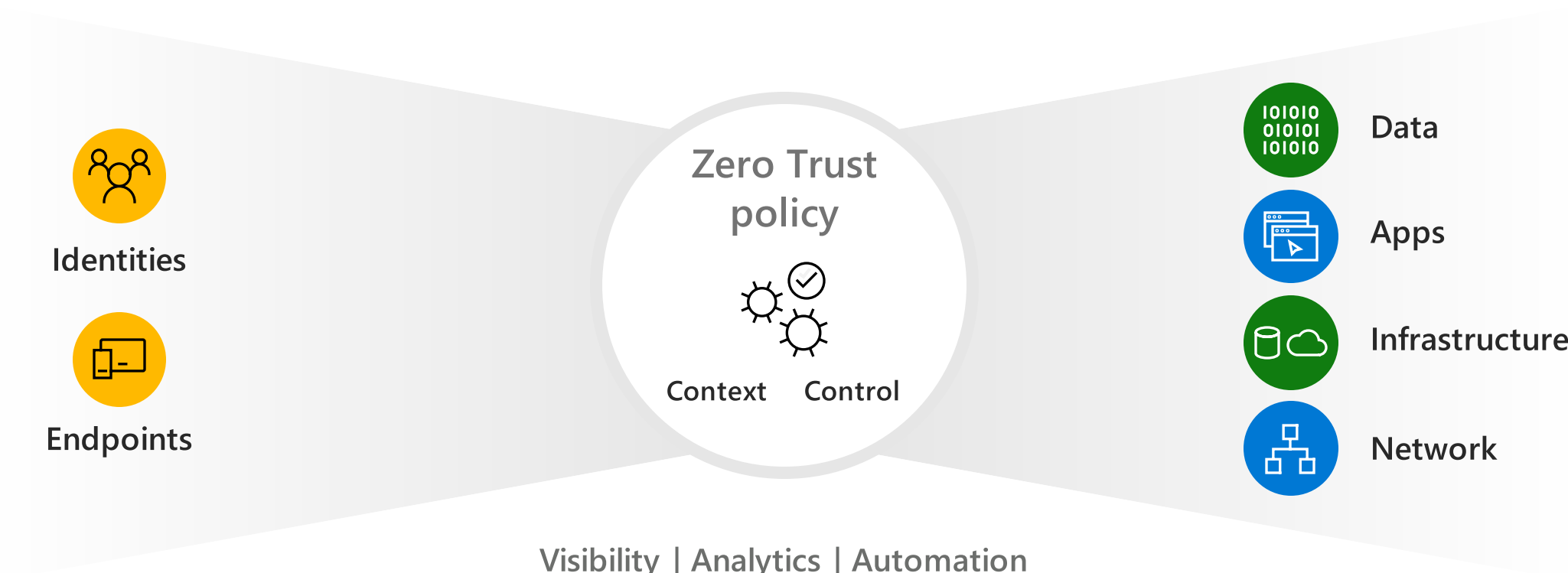
Secured with cutting-edge **operational security**

- Restricted access
- 24x7 monitoring
- Global security experts

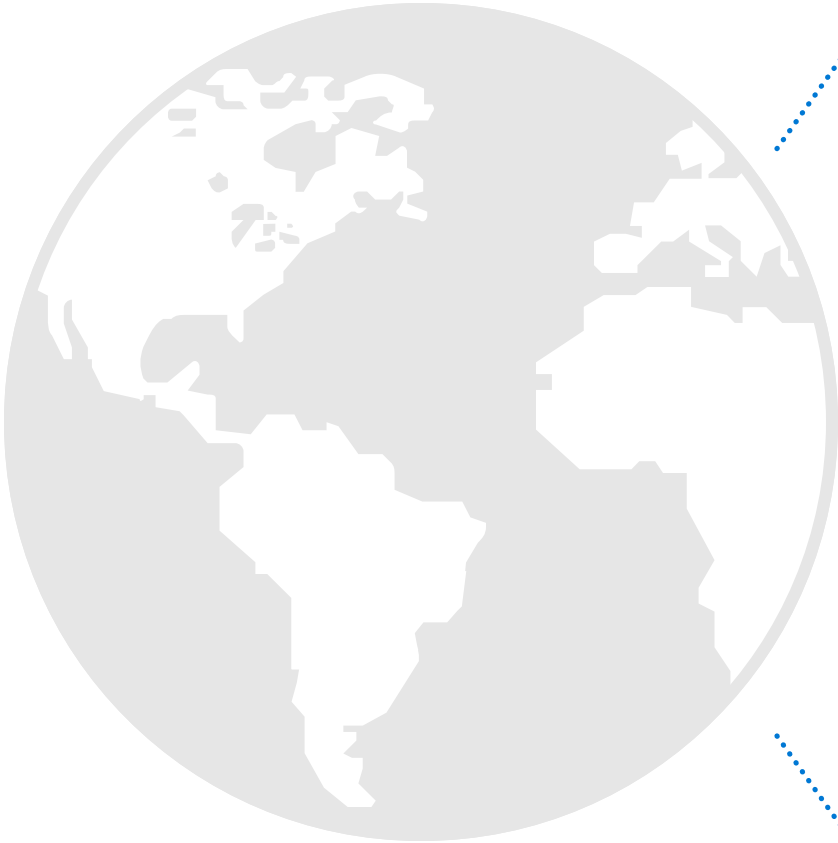
# Secure your organization with Zero Trust

A modern security framework with identity as its foundation

Verify explicitly | Use least-privileged access | Assume breach



# Open and interoperable ecosystem



✓ Single sign-on



SAML v2.0



✓ Provisioning

SCIM

✓ Passwordless



WebAuthn

✓ Decentralized identity



# Open and interoperable ecosystem

## Passwordless Authentication

ensurity yubico THALES



AUTHENTREND



## Human Capital Management

workday. Aquera

successfactors  
An SAP Company

## Pre-integrated SSO and user provisioning

zendesk



now.

ATLASSIAN



## Identity Governance



N8IDENTITY



## Secure Hybrid Access



CITRIX



## Identity Verification



jumio.





# Customer success stories across every industry

## Financial Services and insurance

"Moving to the cloud with Azure AD has benefitted both our employees and our IT Department. Thanks to Azure AD and Windows Hello for Business, employees can now use face recognition to streamline access to the services they need. Meanwhile, our IT department has freed up more resources, now that it no longer has to maintain an on-premises server or AD FS."

Mitsui & Co.



## Government

"That's the power of the solution for us. It supports the integration of legacy applications, in whatever state they are in, to talk to the new identity management component."

New Zealand Ministry of Education



## Healthcare

"Conditional Access in Azure AD is essential for us. Having that level of security across domains, being able to lock down identities from countries we don't deal with but are known for malware, and using multifactor authentication improves our security posture and reduces stress for my team."

MVP Health Care



## Education

"We had four weeks to accelerate the university's remote working solution to a viable, user-friendly, and resilient state that could be utilized by all staff and students. Using Azure AD played an enormous part in achieving this. It's a much better user experience and so much more powerful in terms of what we can do with security."

Durham University

Microsoft DigiGirlz



## Retail

"Microsoft's commitment to improving security and the cloud is clear. It is the relationship that has allowed us to securely implement Azure AD at our scale."

Walmart



## Professional Services

"We used to require multi-factor authentication whenever anyone was outside the office, but now with [Azure AD] Conditional Access we can take more factors into consideration and provide a much simpler sign-in experience in many cases."

Burns & McDonnell





## Microsoft—a Leader in Gartner Magic Quadrant for Access Management



\*Gartner "Magic Quadrant for Access Management," by Michael Kelley, Abhyuday Data, Henrique Teixeira, November 2020

This graphic was published by Gartner, Inc. as part of a larger research document and should be evaluated in the context of the entire document. The Gartner document is available upon request from Microsoft. Gartner does not endorse any vendor, product or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings or other designation. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, express or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose. GARTNER is a registered trademark and service mark of Gartner, Inc. and/or its affiliates in the U.S. and internationally, and is used herein with permission. All rights reserved.

# Azure Active Directory

Your complete identity and access management solution with integrated security

Secure adaptive access

---

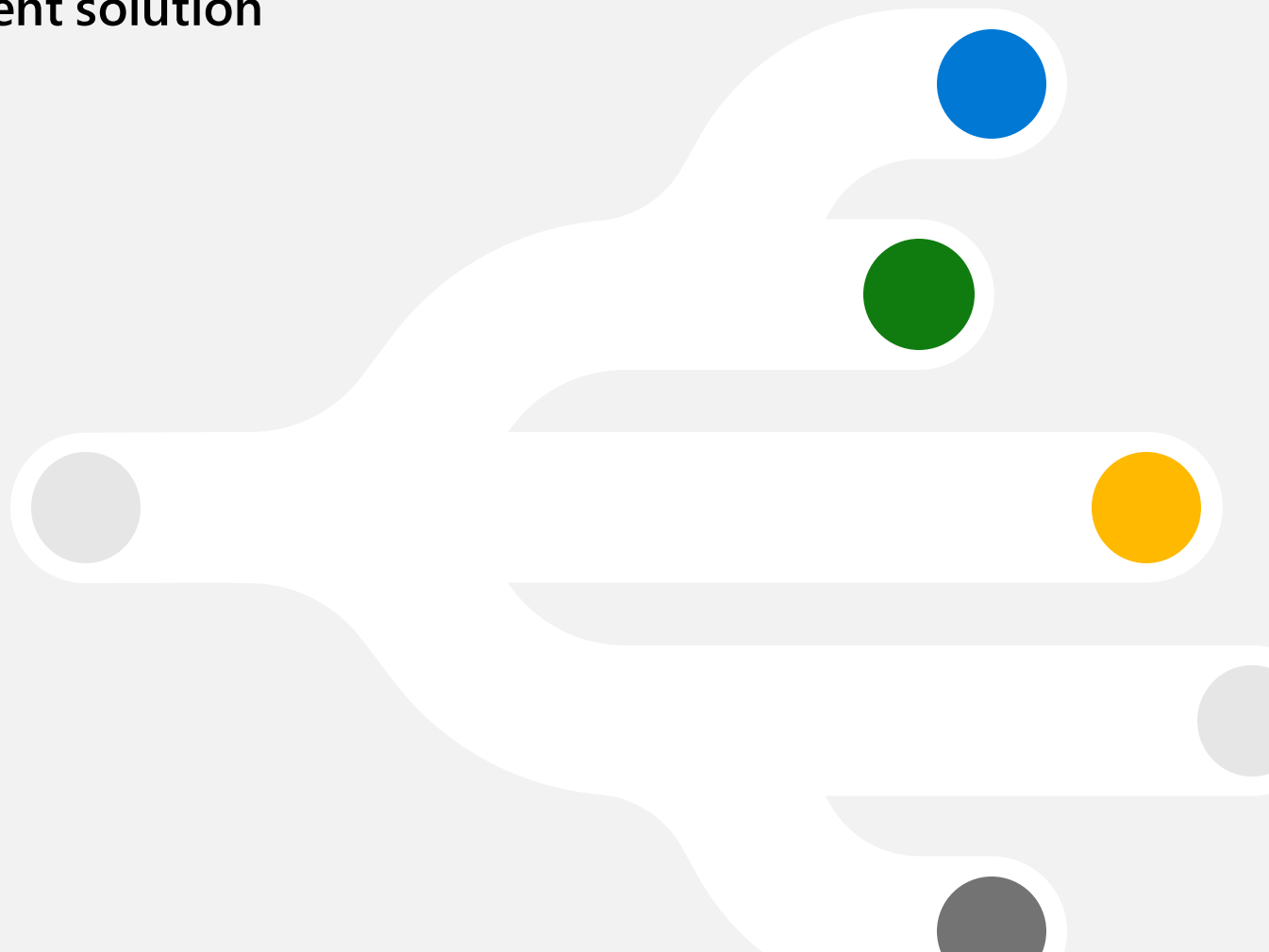
Seamless user experiences

---

Unified identity management

---

Simplified access governance



# Pro Tips

- Start small with securing your most important digital assets (e.g. enforce 2FA for all your Office 365 administrator)
- Always ask the apps vendor if they can support your IAM for SSO and Identity provisioning (make this a default apps onboarding policy)

