



okta

Identity as the Foundation for Zero Trust

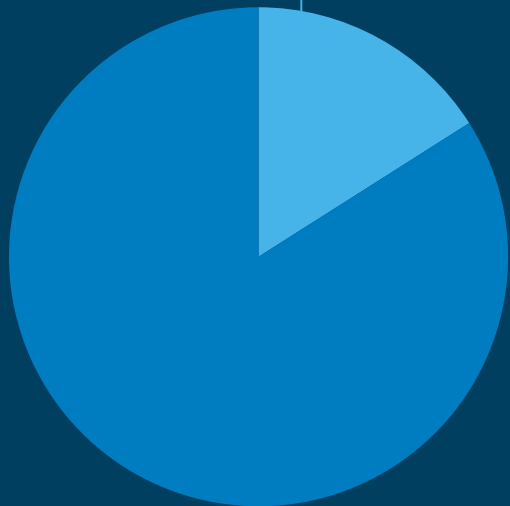
Teju Shyamsundar, Okta

February 2020

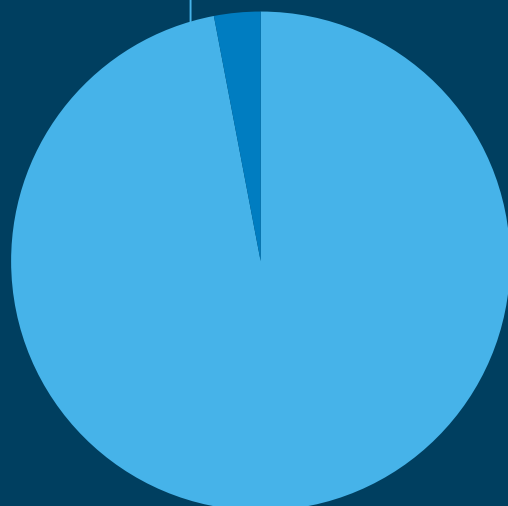


Beyond the Buzzword: Security Leaders Today

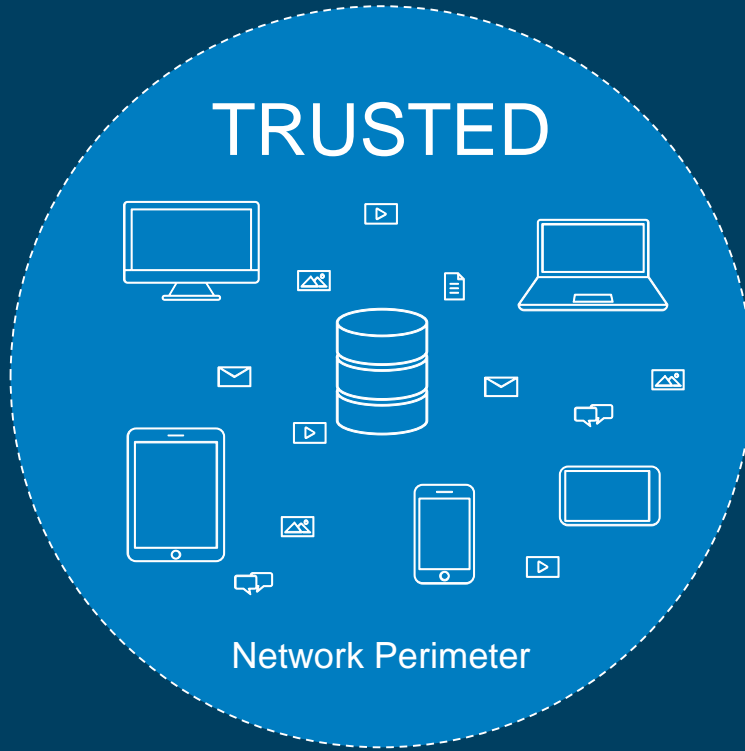
Only **16%** of organizations today have an explicit Zero Trust strategy



... but **97%** are engaged in Zero Trust projects



Origins of Zero Trust



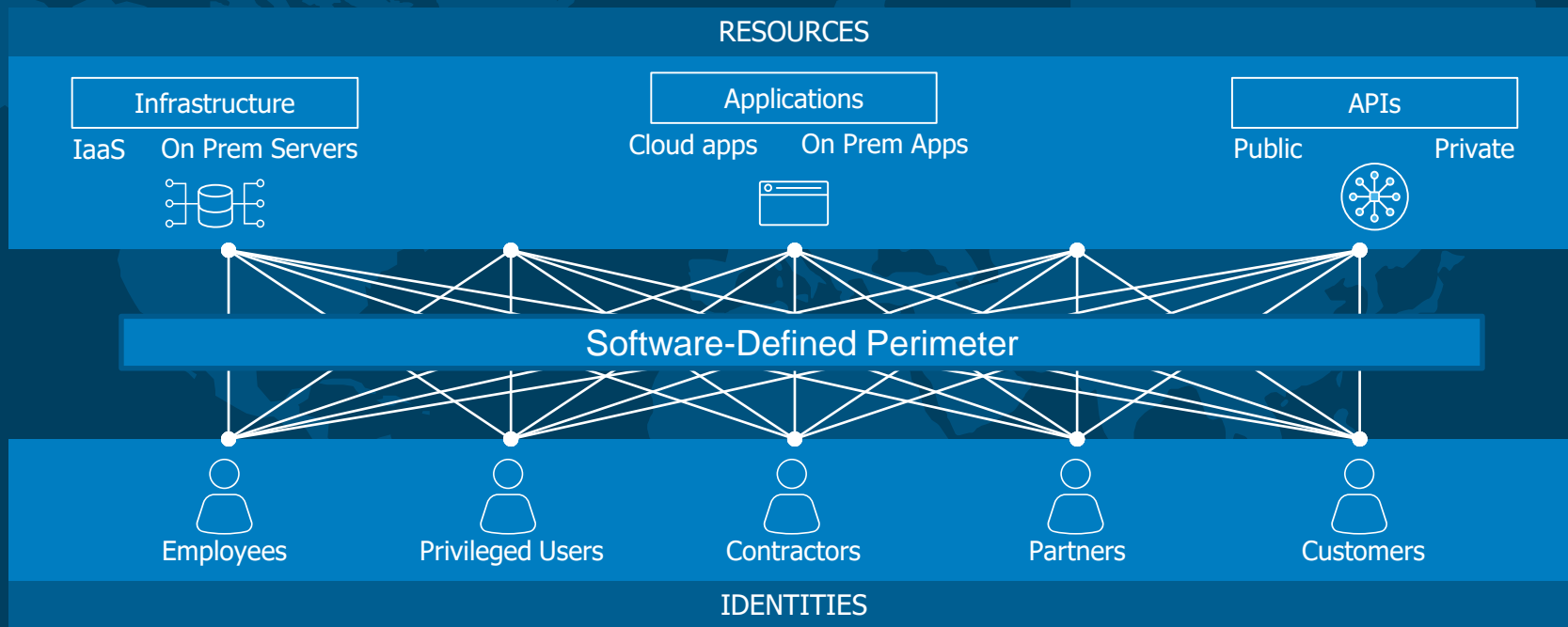
UNTRUSTED



UNTRUSTED



Cloud, Mobile Have Dissolved the Network Perimeter



Access Management Is Still an Unsolved Problem



USER FRICTION

- “ John Smith reported to work as a new sales representative in Minneapolis five days ago and he still doesn't have the access to three critical applications that he needs to do his job! ”



IT CHALLENGES

- “ Director of Marketing just purchased an application and wants it rolled out to everyone in sales and marketing... tomorrow. ”

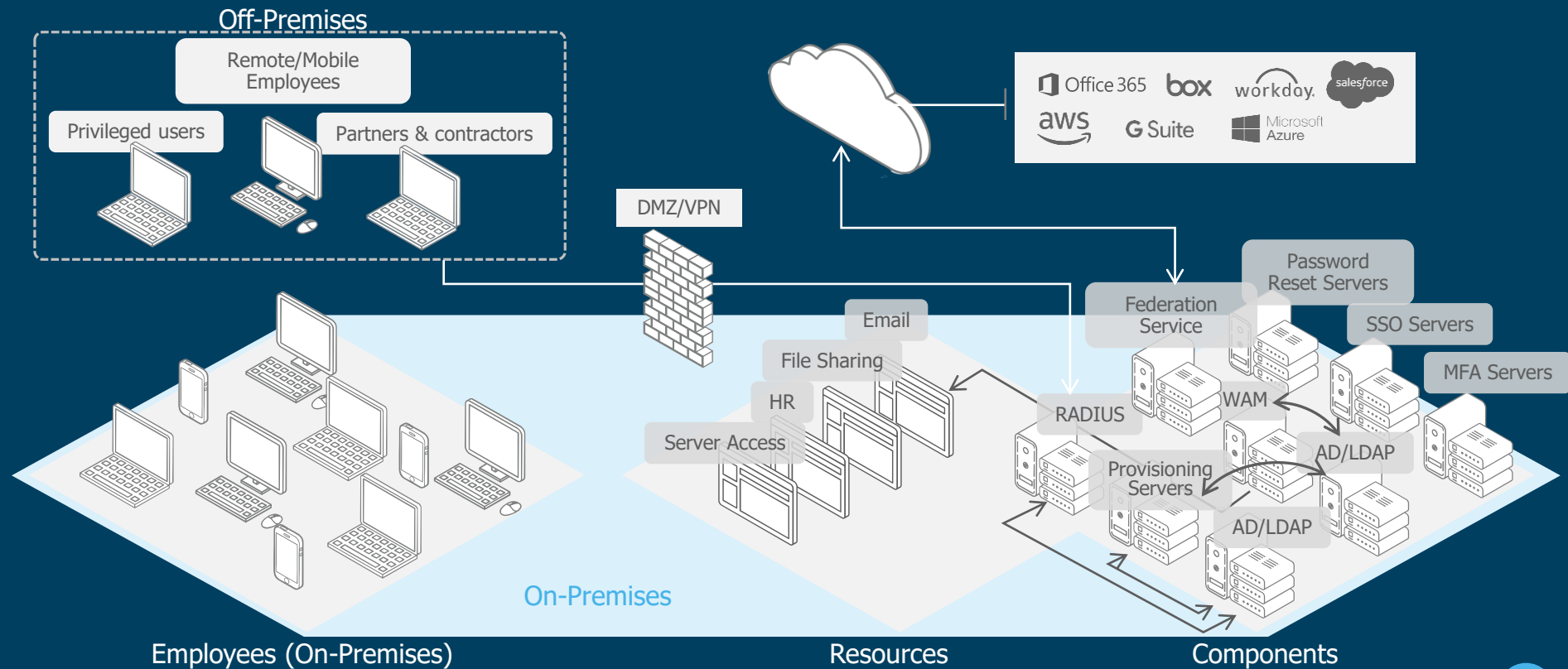


SECURITY CHALLENGES

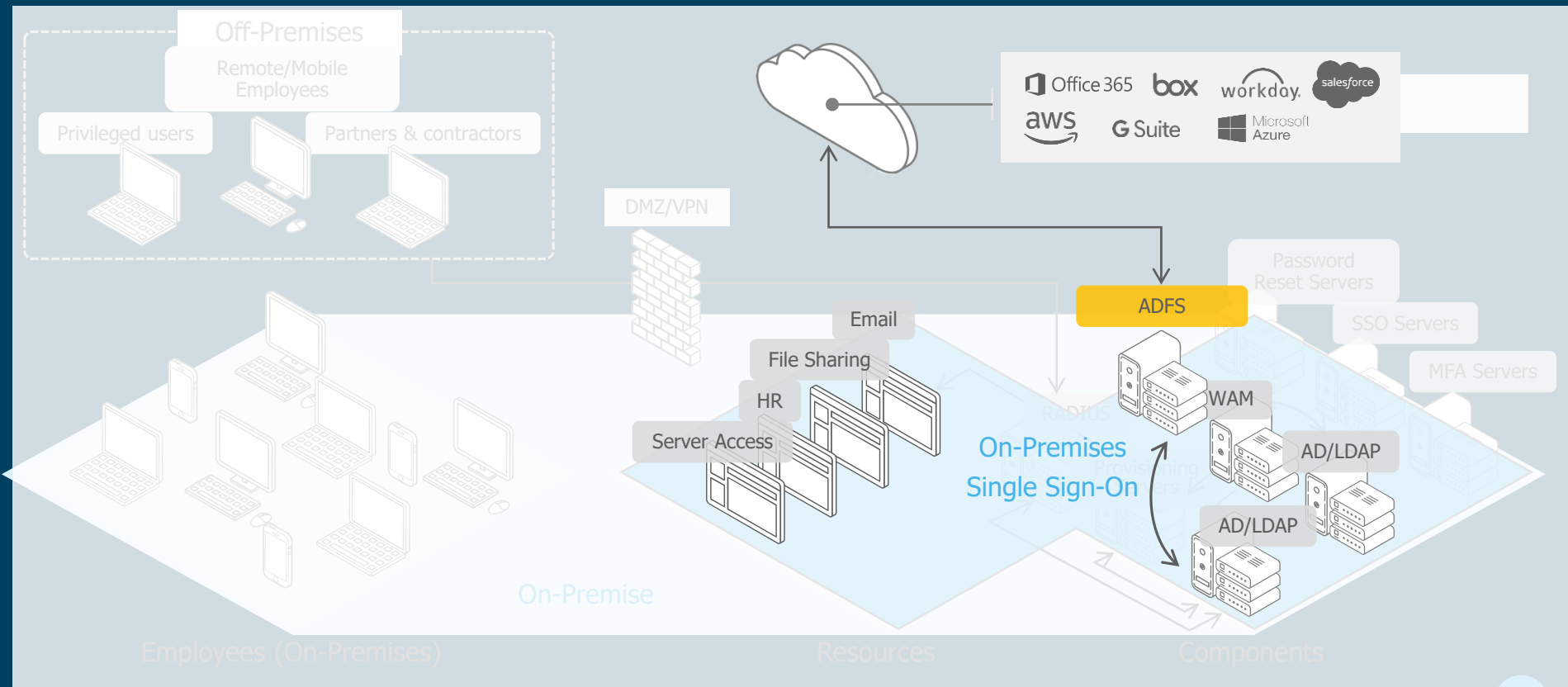
- “ Global Procurement has discovered that one of our suppliers has been sharing user IDs and passwords among the members of their team and they want us to make it stop! ”




Because Under the Hood It's Complicated





You Think You Have This Solved

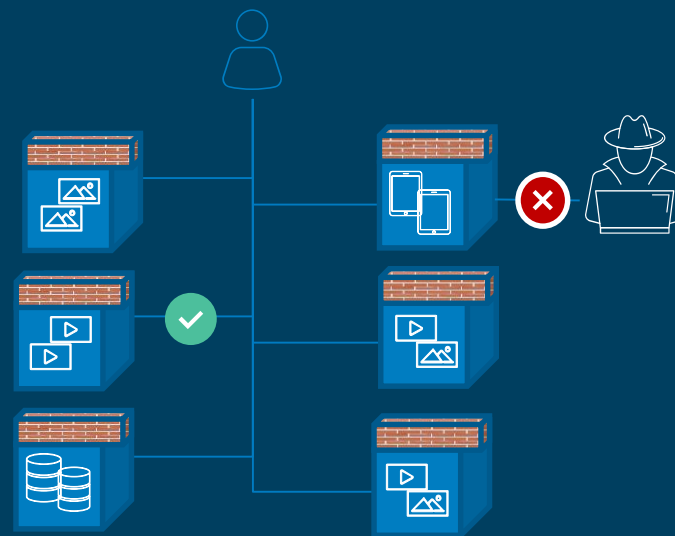




But increased adoption of cloud-based
services has brought
new challenges
for the modern workforce.



2009: “Zero Trust” is Born



Microsegmentation



2015: Google's BeyondCorp

3:21 pm ET
May 11, 2015 SECURITY

Google Moves Its Corporate Applications to the Internet

ARTICLE COMMENTS (20)

AUTHENTICATION BEYONDCORP CORPORATE NETWORK CYBERSECURITY GOOGLE

Email Print

920 1.3k

By RACHAEL KING

Google Inc. **GOOGL -1.42%**, taking a new approach to enterprise security, is moving its corporate applications to the Internet. In doing so, the Internet giant is flipping common corporate security practice on its head, shifting away from the idea of a trusted internal corporate network secured by perimeter devices such as firewalls, in favor of a model where corporate data can be accessed from anywhere with the right device and user credentials.

The new model — called the BeyondCorp initiative — **assumes that the internal network is as dangerous as the Internet.** Access depends on the employee's device and user credentials. Using authentication, authorization and encryption, the model grants employees fine-grained access to different enterprise resources, wrote Google's Rory Ward and Betsy Beyer **in a paper published in December.**

“assumes that the internal network is as dangerous as the Internet”

<http://blogs.wsj.com/cio/2015/05/11/google-moves-its-corporate-applications-to-the-internet/>



What's the Business Goal?



The
right
people



have the
right level of
access



to the
right
resources



in the
right
context

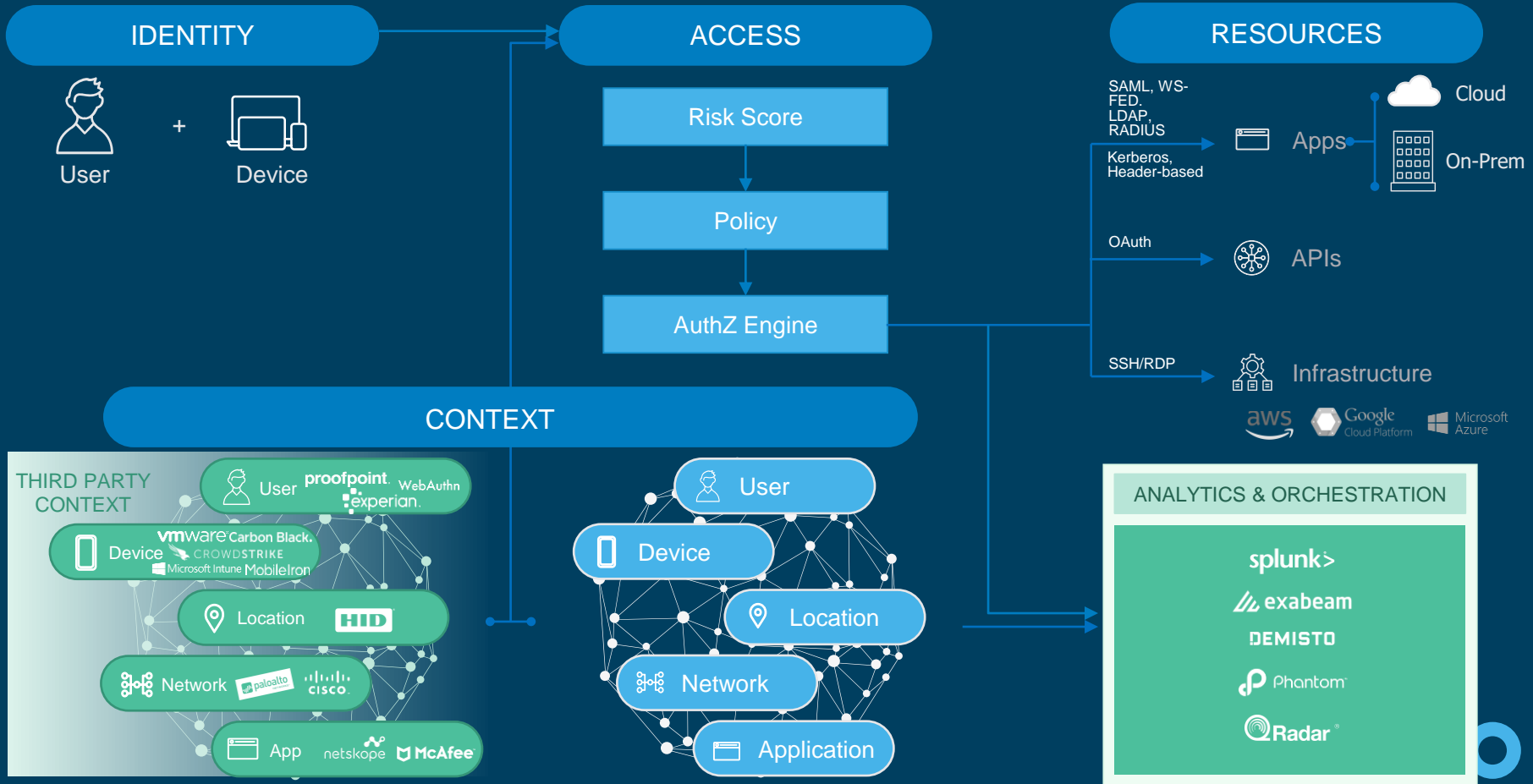


that is
assessed
continuously

Least Friction Possible



Zero Trust Reference Architecture



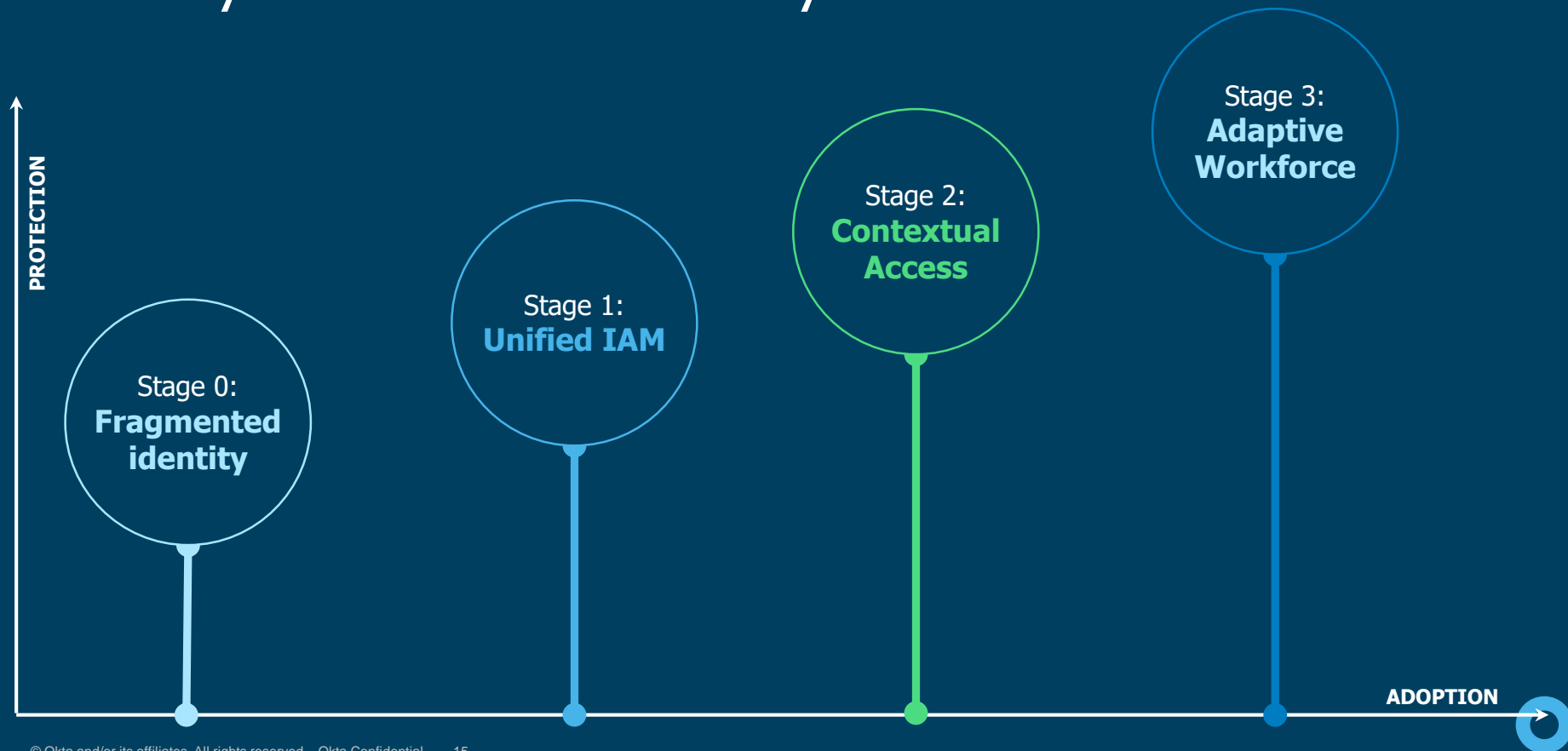
A row of Emmy Awards trophies is displayed on a shelf. The trophies are silver and feature a winged figure holding a globe. The background is a dark, blue-tinted image of the trophies and a shelf. A quote is overlaid in the center.

“Okta was the foundation that could help us
mature to a zero trust model.”

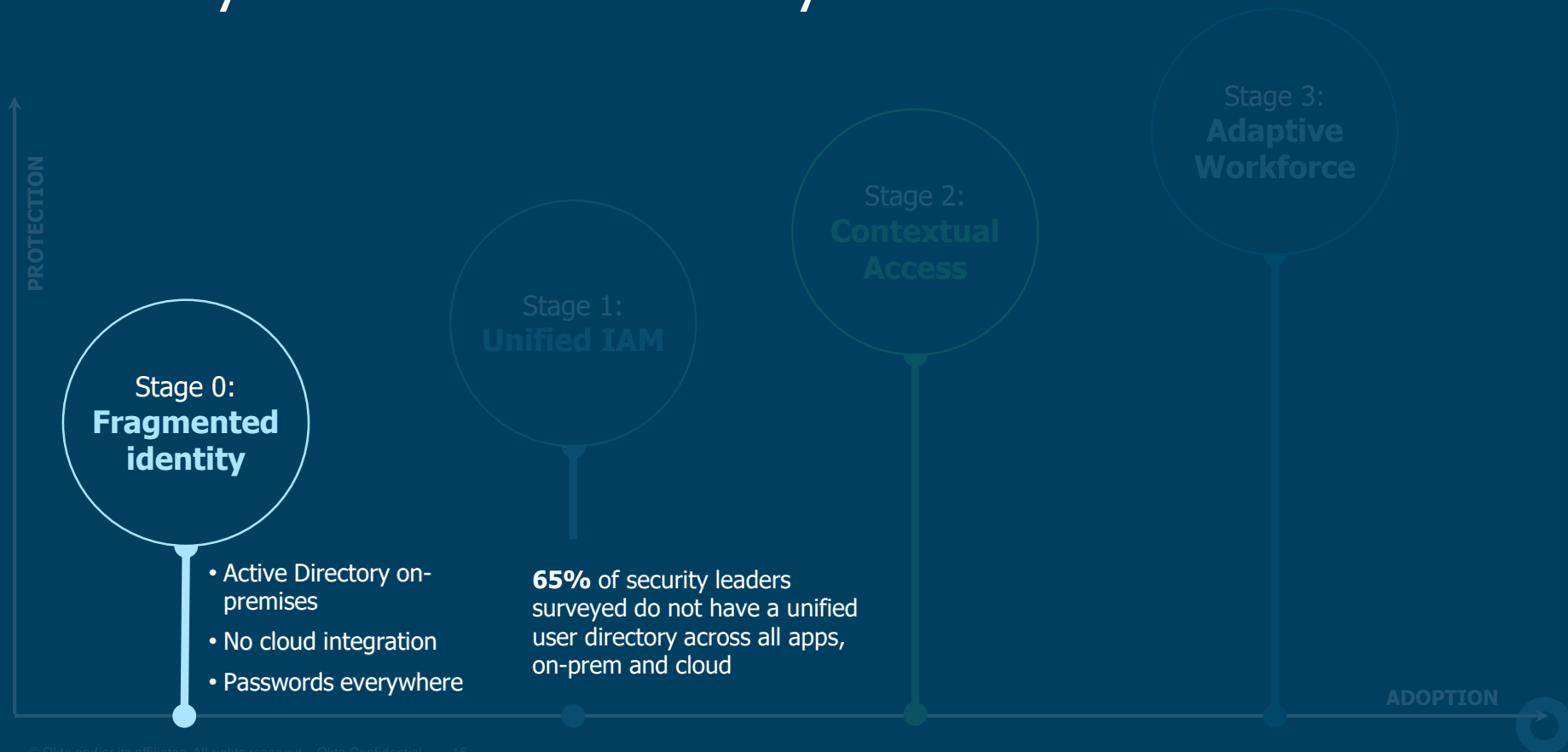
- Melody Hildebrandt, Global CISO, 21st Century Fox

FROM OUT OF SPACE...
A WARNING...

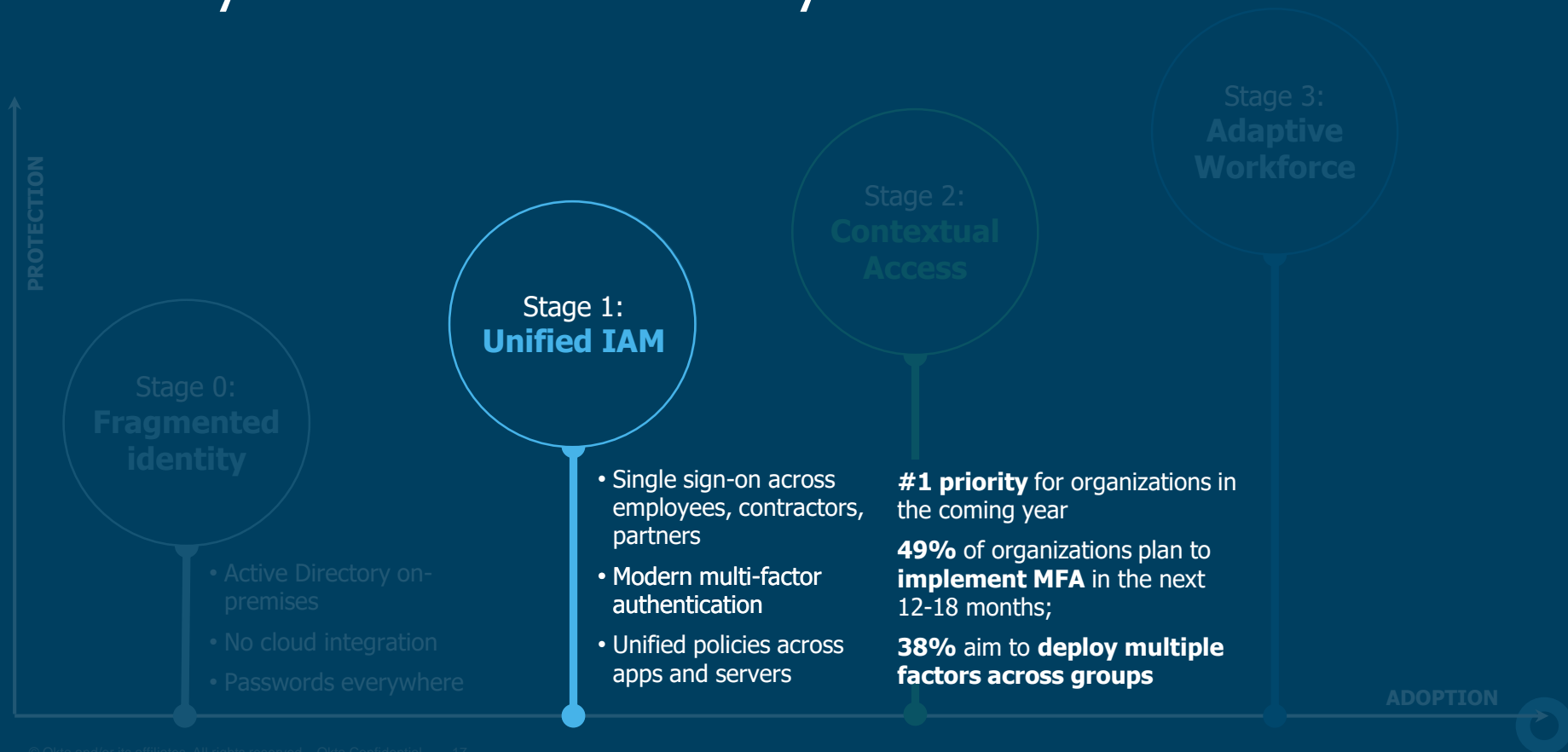
Identity and Access Maturity Curve



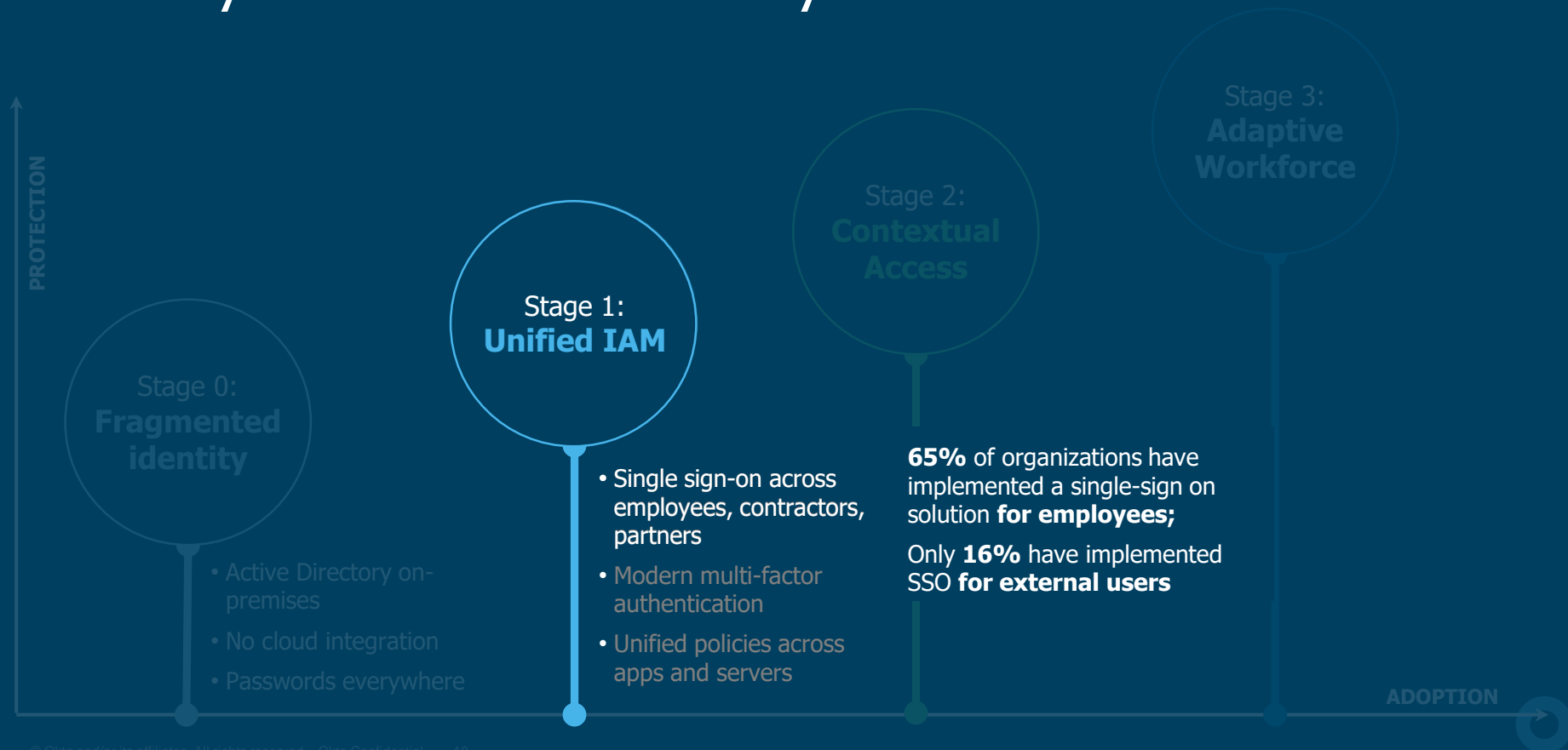
Identity and Access Maturity Curve



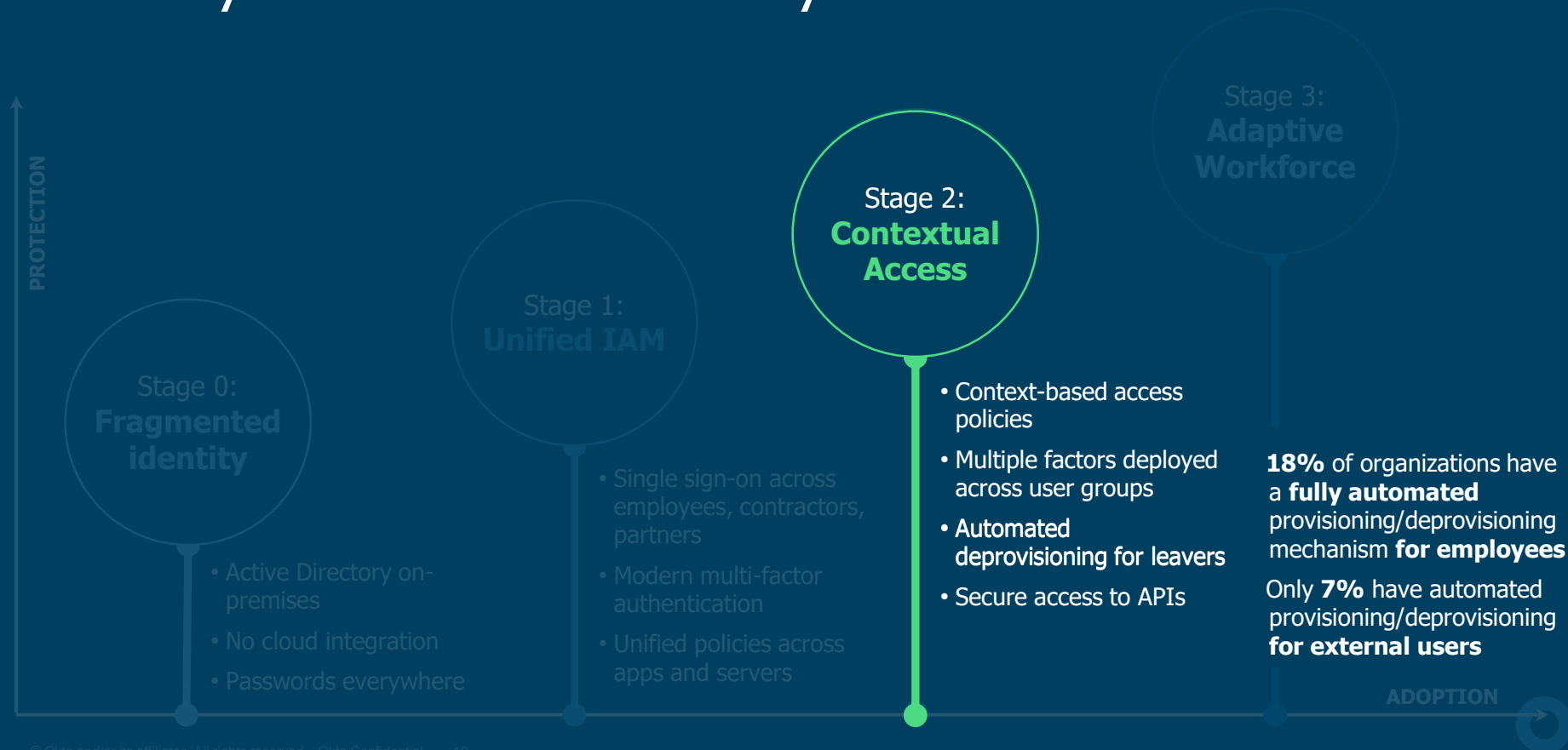
Identity and Access Maturity Curve



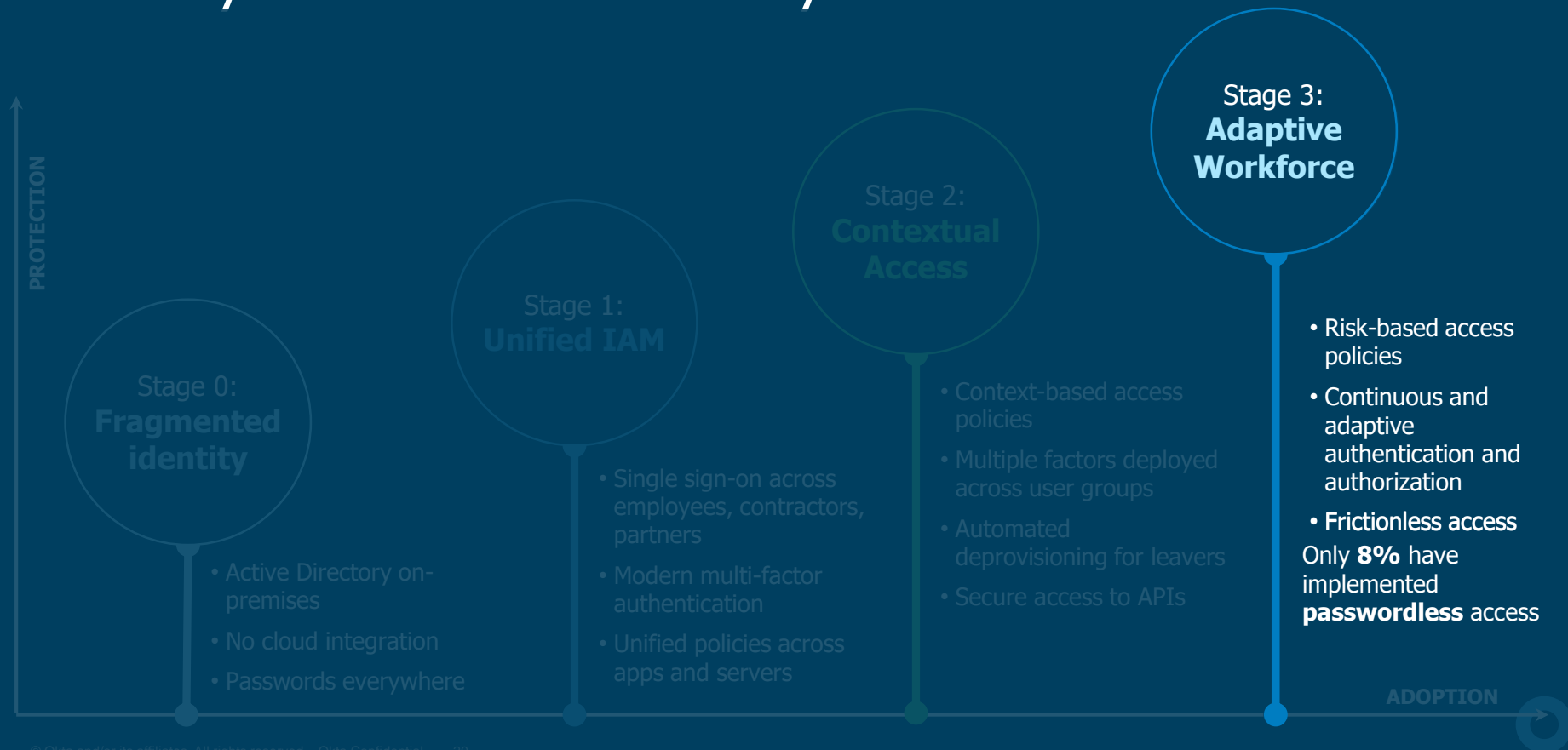
Identity and Access Maturity Curve



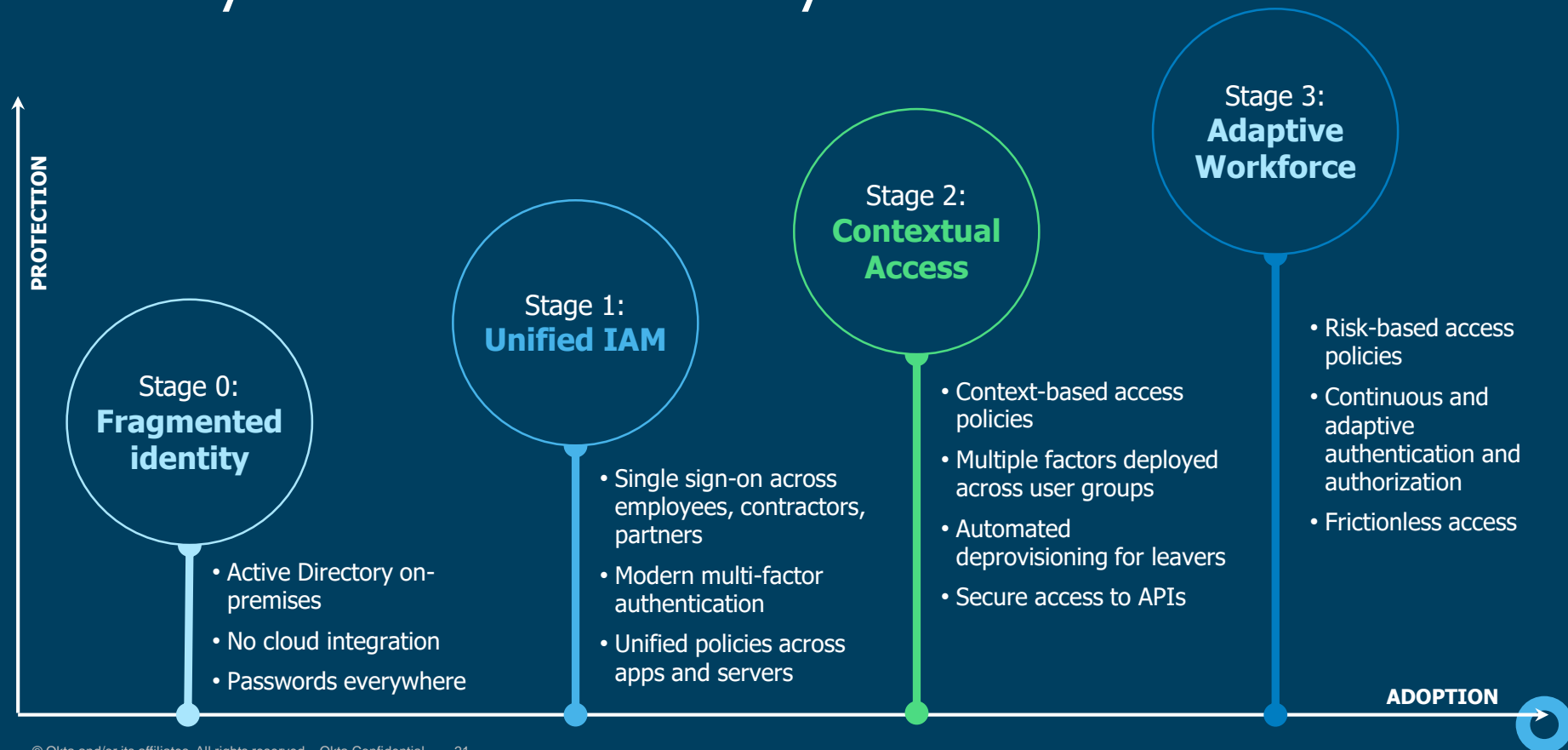
Identity and Access Maturity Curve



Identity and Access Maturity Curve



Identity and Access Maturity Curve



Start your Zero Trust journey with identity

Your goal:

Success criteria:



Secure Authn
via Single Sign-On

- Eliminate passwords where possible
- Enable strong, unique passwords everywhere else



Intelligent MFA

- Harden all corporate resources with step-up authentication based on login context
- Apply unified policies to cloud, mobile, desktop apps, and servers



Reduce attack surface

- Automate joiner, mover, and leaver processes for all users
- Enable visibility into app assignment and entitlement



Secure Access to APIs

- Enable assurance and control over APIs
- Easy and centralized administration across APIs



Enable rapid response

- Centralized, real-time reporting for all auth events
- Integrate with existing security tools



The image features a blue background with a radial blur effect, creating a sense of motion. Overlaid on this are several semi-transparent circular patterns, each consisting of two concentric circles. The Okta logo, in white lowercase letters, is centered in the upper half of the image.

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Thank You