

SECURE YOUR CONNECTIONS WITH

okta



Learning Capsule

Wednesday December 9 2020

Emmanuel Latour, Senior Solutions Consultant

ESI, our cloud partner based in Canada

Founded in 1994!

Partnerships with many technology manufacturers and cloud providers



→ About 200 specialists in different areas:

- > Networking
- > Storage
- > Security
- > Data
- > Virtualization
- > Cloud
- > Project Management
- > Business Management Consulting

→ Offices in Toronto, Montréal and Québec City

→ Affiliated companies:



ESI & Okta

Always providing solutions for
our clients

- Results from analysis and recommendations by our consultants
- In line with our corporate priorities
 - > Help our clients protect their data
 - > Efficiently manage identities
 - > Recommend effective & high quality solutions
- ESI Technologies is an Okta ELITE Level Partner

The Okta logo is displayed in a light blue, lowercase, sans-serif font. It is positioned on the left side of a dark blue rectangular banner that has a green vertical bar on its left edge.

ELITE
SOLUTION
PROVIDER

What we're seeing with our clients

Digital transformation is unavoidable
Risks are pervasive



Enterprises carry the burden of their
legacy infrastructure baggage



AD/LDAP

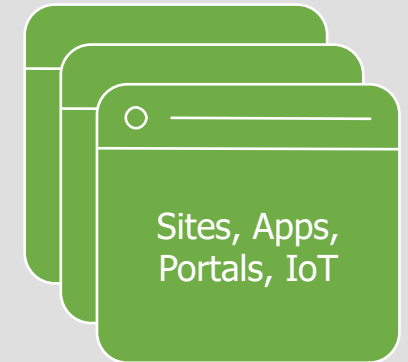
RADIUS

Provisioning

ADFS

WAM

User identities are fragmented



Sites, Apps,
Portals, IoT

Security is top of mind

Suspicious activity found on 48,000 CRA accounts after cyberattacks: treasury board



RCMP continues to investigate

The Canadian Press · Posted: Sep 18, 2020 8:03 AM ET



The Canada Revenue Agency is investigating two online hacking thousands of Canadians. (Adrian Wyld/The Canadian Press)

169 comments

The Treasury Board of Canada says it has uncovered more than 48,000 Canada Revenue Agency accounts that were hacked in August.

NEWS BUY LOCAL COVID-19 UPDATES SHOWS AUDIO CONT

'QUEBEC IS AN EMBARRASSMENT': PROVINCE URGED TO DO MORE ON CYBERSECURITY



CANADIAN PRESS
Sunday, November 18th 2018 - 10:28 pm



Photo: Username and password login. (crstrbrt/istock.com)

On Sept. 10, municipal employees in a region between Montreal and Quebec City arrived at work to discover a threatening message on their computers notifying them they were locked out of all their files. In order to regain access to its data, the regional municipality of Mekinac was told to deposit eight million dollars of the digital currency Bitcoin into a bank account – roughly equivalent to \$65,000. Mekinac's IT department eventually negotiated the cyber extortionists down and paid \$30,000 in Bitcoin, but not before the region's servers were disabled for about two weeks. The attack highlights a glaring weakness in government servers in Quebec, according to Professor J...

Cybersecurity INSIDERS

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Cyber Threats Cyber Attack TAGS Canada Bank of Montreal Canadian Imperial Bank of Commerce

NEW REPORTS

Bank of Montreal hit by Cyber Attack

Posted By Naveen Goud



Bank of Montreal(BMO), known to be Canada's fourth largest financial service corporation said on Monday that it was hit by a cyber attack in which some hackers got hold of personal information of some of the BMO customers and were trying to blackmail the higher authorities of the financial institution to mint money.

Cybersecurity Insiders learned that info of more than 50,000 accounts out of 8 million customers across Canada is now lying in the hands of the hackers. A source reporting to

2020 Endpoint Security Report [Delta Risk Motorola]

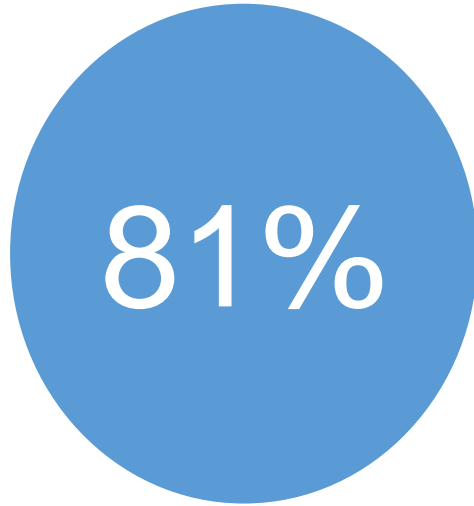
2020 Zero Trust Report [Netskope]

2020 Cloud Threat Protection Report [Netskope]

2020 Data Security Report [Netskope]

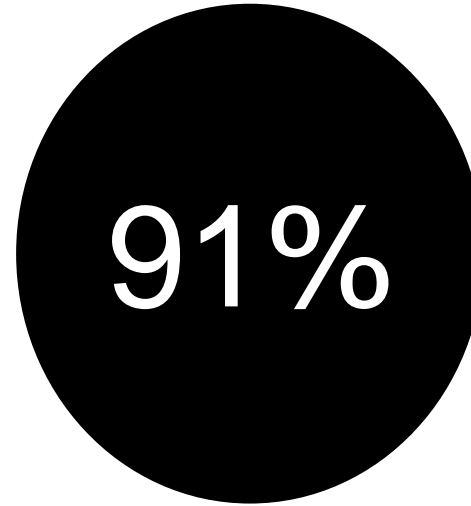
More

Cyber attacks target credentials



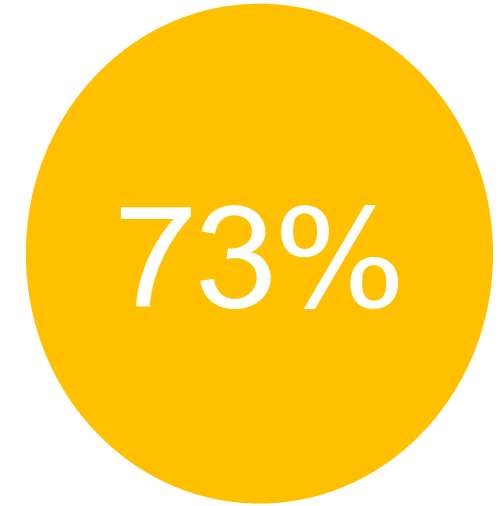
of data breaches involve
stolen/weak credentials

*Source: 2017 Verizon Data Breach
Investigations Report*



of phishing attacks
target credentials

*Source: 2016 Verizon Data Breach
Investigations Report*

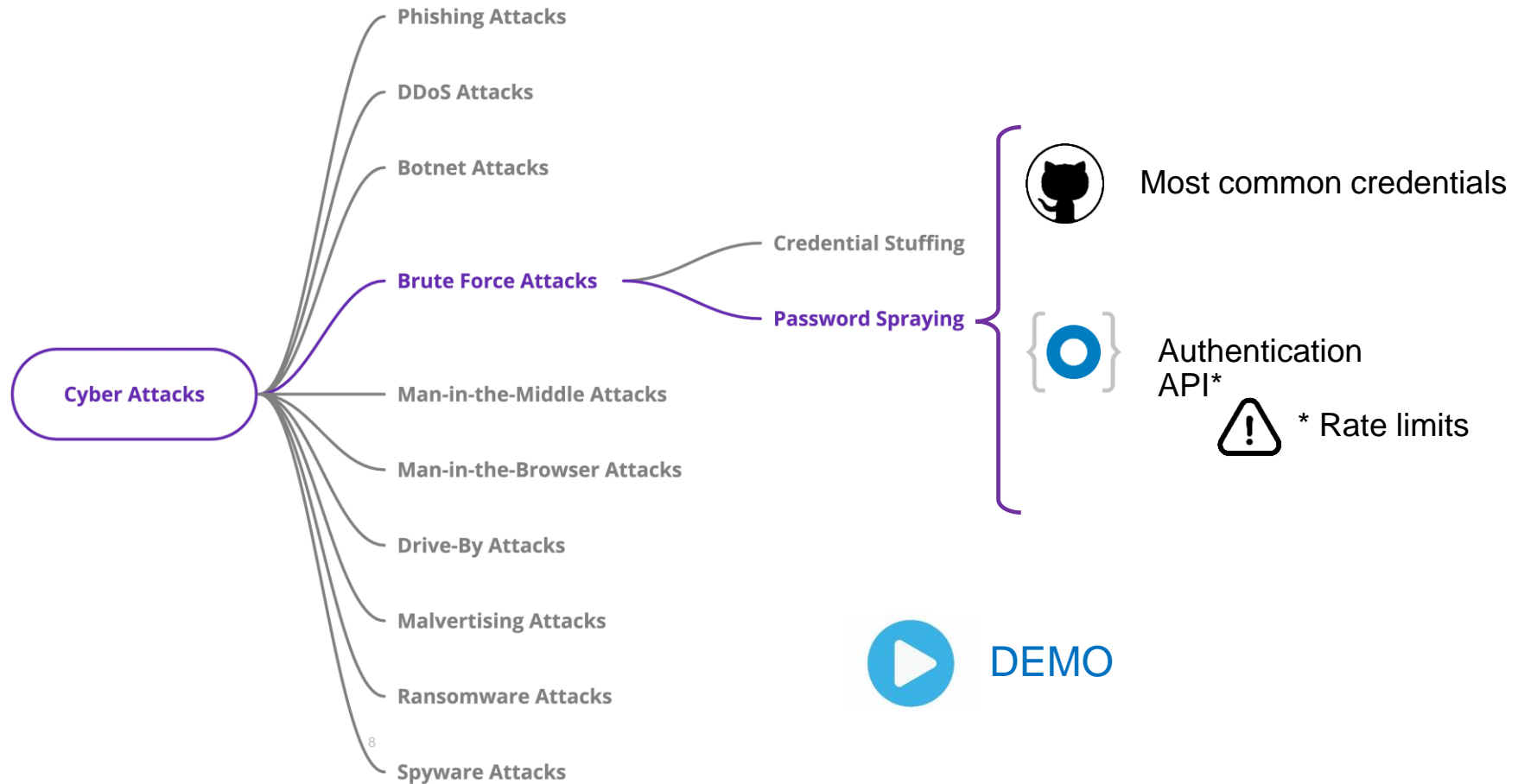


of passwords
are duplicates

*Source: TeleSign 2016 Consumer
Account Security Report*

**Credential harvesting is the most fruitful tactic
for today's threat actors**

Most common types of cyber attacks



How long it would take to crack your password ?

Length of Password (Characters)	Numbers Only	Mixed Lower and Upper Case Alphabets	Mixed Numbers, Lower and Upper Case Alphabets	Mixed Numbers, Lower and Upper Case Alphabet, and Symbols
3	Instant	Instant	Instant	Instant
4	Instant	Instant	Instant	Instant
5	Instant	Instant	3 secs	10 secs
6	Instant	8 secs	3 mins	13 mins
7	Instant	5 mins	3 hours	17 hours
8	Instant	3 hours	10 days	57 days
9	4 secs	4 days	153 days	12 years
10	40 secs	169 days	1 year	928 years
11	6 mins	16 years	106 years	71k years
12	1 hours	600 years	6k years	5m years
13	11 hours	21k years	108k years	423m years
14	4 days	778k years	25m years	5bn years
15	46 days	28m years	1bn years	2tn years
16	1 year	1bn years	97bn years	193tn years
17	12 years	36 bn years	6tn years	14qd years
18	126 years	1tn years	374tn years	1qt years

Protections over brute force attacks

→ Password policy

- › Account lockouts
- › Complexity requirements



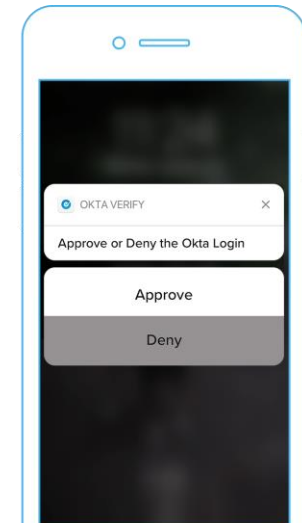
→ Blacklisting malicious IP

- › Network action
- › Automation with ThreatInsight



→ Multi-factor authentication

- › Add multi-factor policy
- › Adopt passwordless authentication



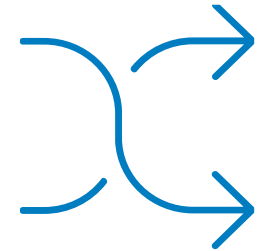
The key is MFA everywhere



Secure authentication



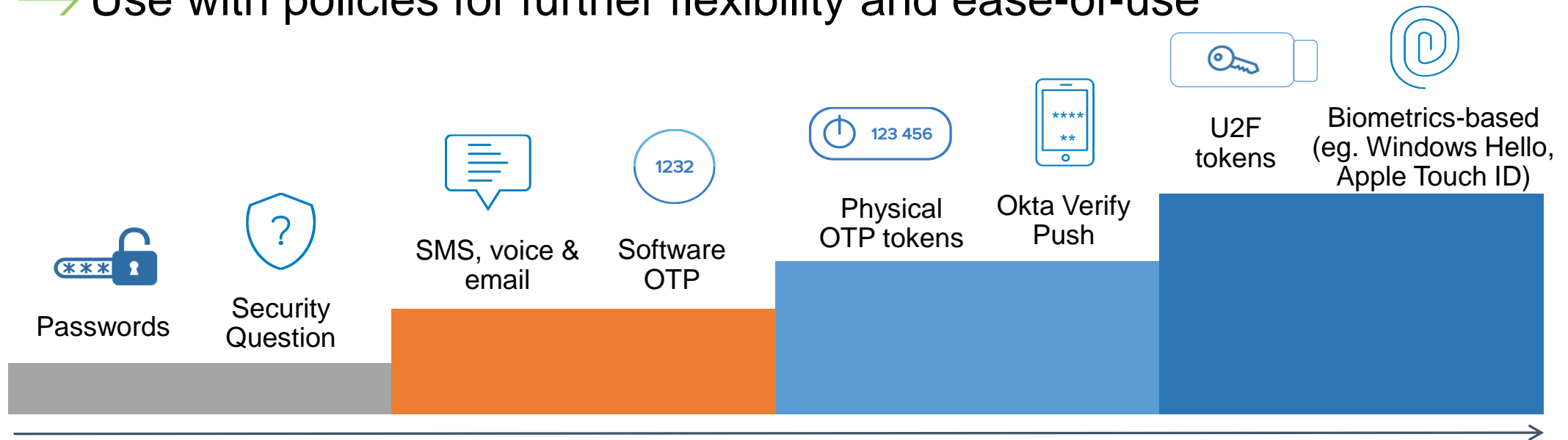
Simple to use



Extensible

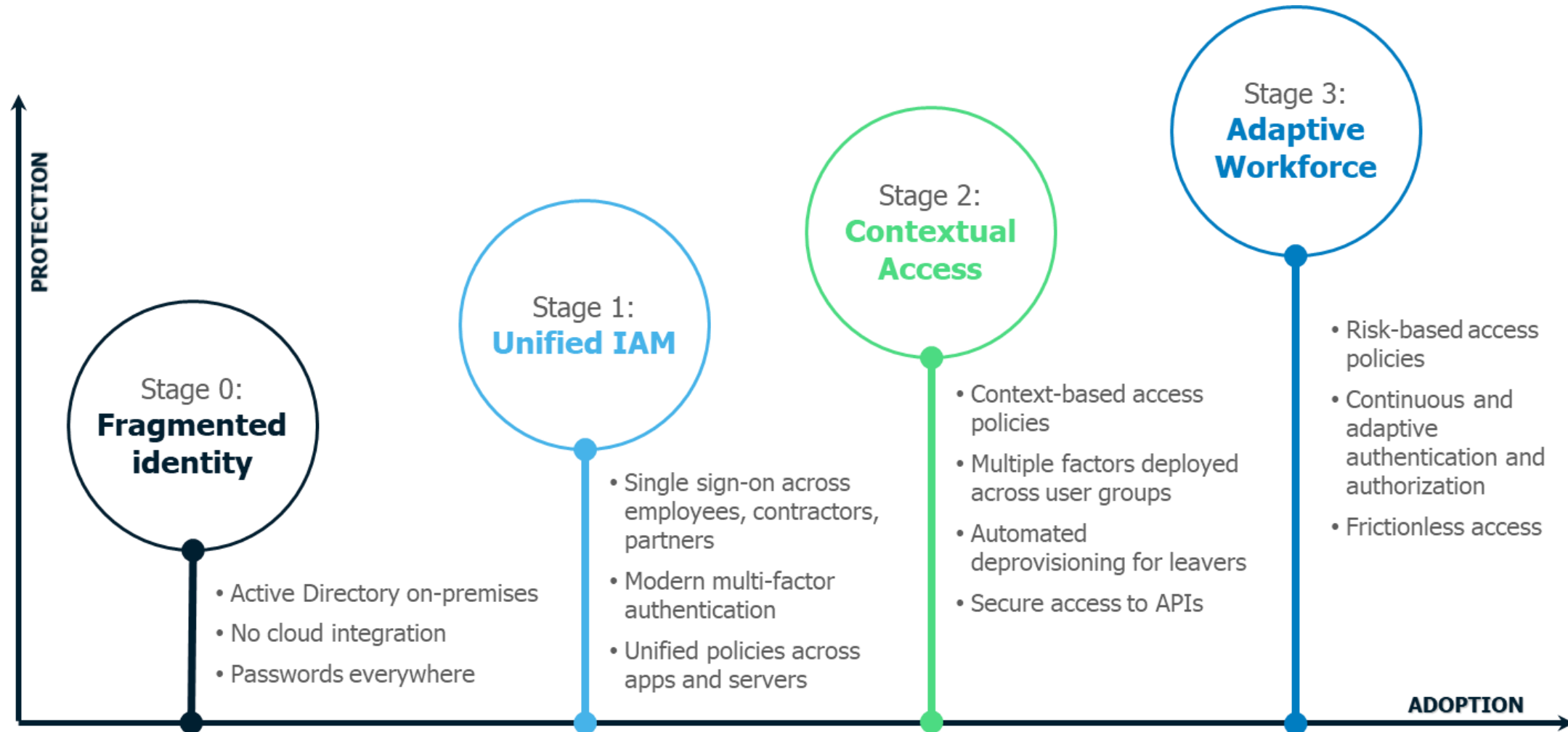
Organizations must also balance security with usability

- Comprehensive set of factors with full range of assurance levels
- Allows for customization to fit different use cases
- Ensures compliance with regulations
- Use with policies for further flexibility and ease-of-use



Plus de protection

Zero Trust Maturity Curve



Next steps

- Dare to question the processes and tools in place
- Look to implement SSO
 - › Supports most of the tools/apps as possible
- Ensure that:
 - › MFA is enabled for everyone and everywhere
 - › Zero Trust practices are known and that a plan has been developed
 - › Decision makers are conscious of the current risks and your defenses in place

In conclusion...

- Okta = Easy and very effective solution
 - > A market leader as per Gartner & Forrester
- Follow standards and best practices
 - > Oauth2 - OpenID
 - > Zero Trust – SSO
- Contact ESI
 - > Your trusted partner!



Question Period