



PREPARING FOR THE RISE IN SUPPLY CHAIN RISK

Brian Zerafa, Regional Director, Netskope

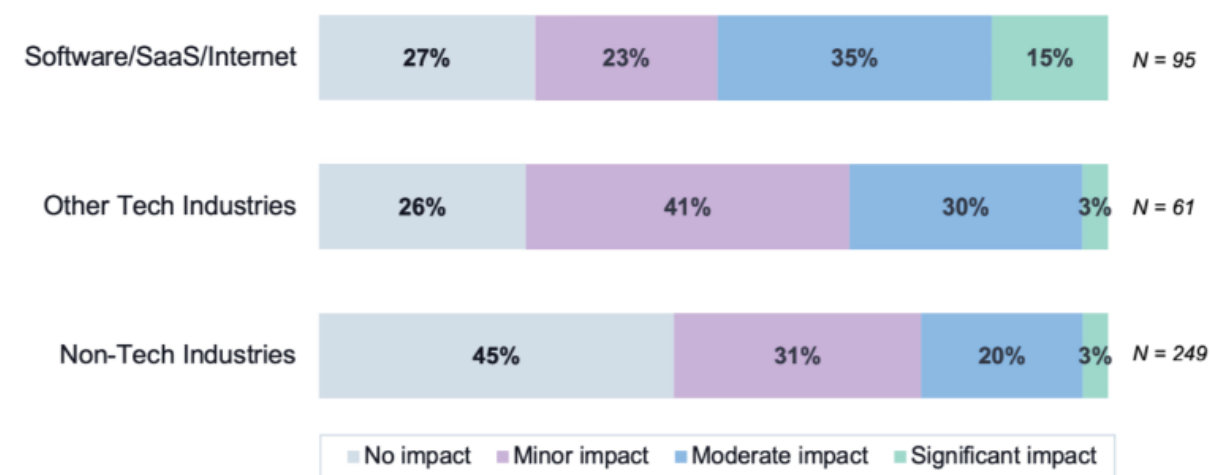
2022



Apple CEO Tim Cook Pushes Senate For Privacy Legislation

Supply Chain Attacks by Industry Type

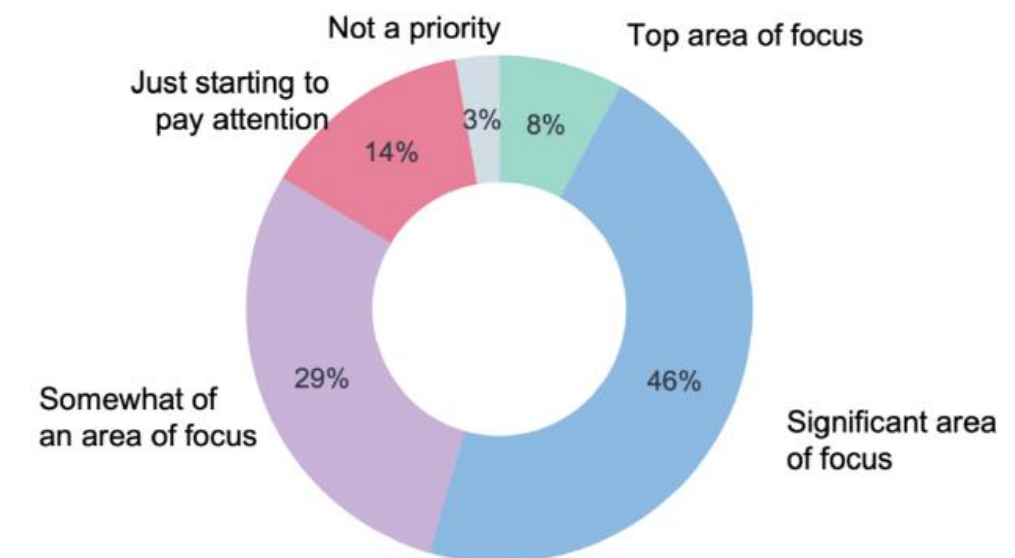
% of respondents



Anchore 2022 Software Supply Chain Security Report

Focus on Securing Software Supply Chain

% of respondents



N=428

Anchore 2022 Software Supply Chain Security Report

12 OCT 2021 NEWS

Over 90% of Firms Suffered Supply Chain Breaches Last Year

SUPPLY CHAIN ATTACKS...

THE ONES WE HEAR ABOUT

solarwinds 

18,000+ customers


Kaseya®

50+ Managed Service Providers

LOG4J 

35,000+ Java Packages

Untold millions of Devices, Applications and
Security Teams impacted

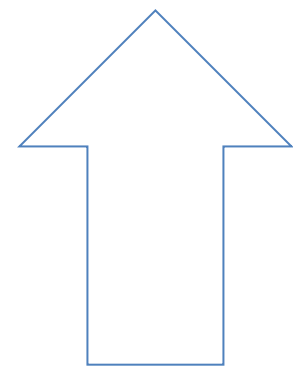
NETWORK & APP INVERSION

>70% OF TRAFFIC IS NOW CLOUD BASED

Traditional Web

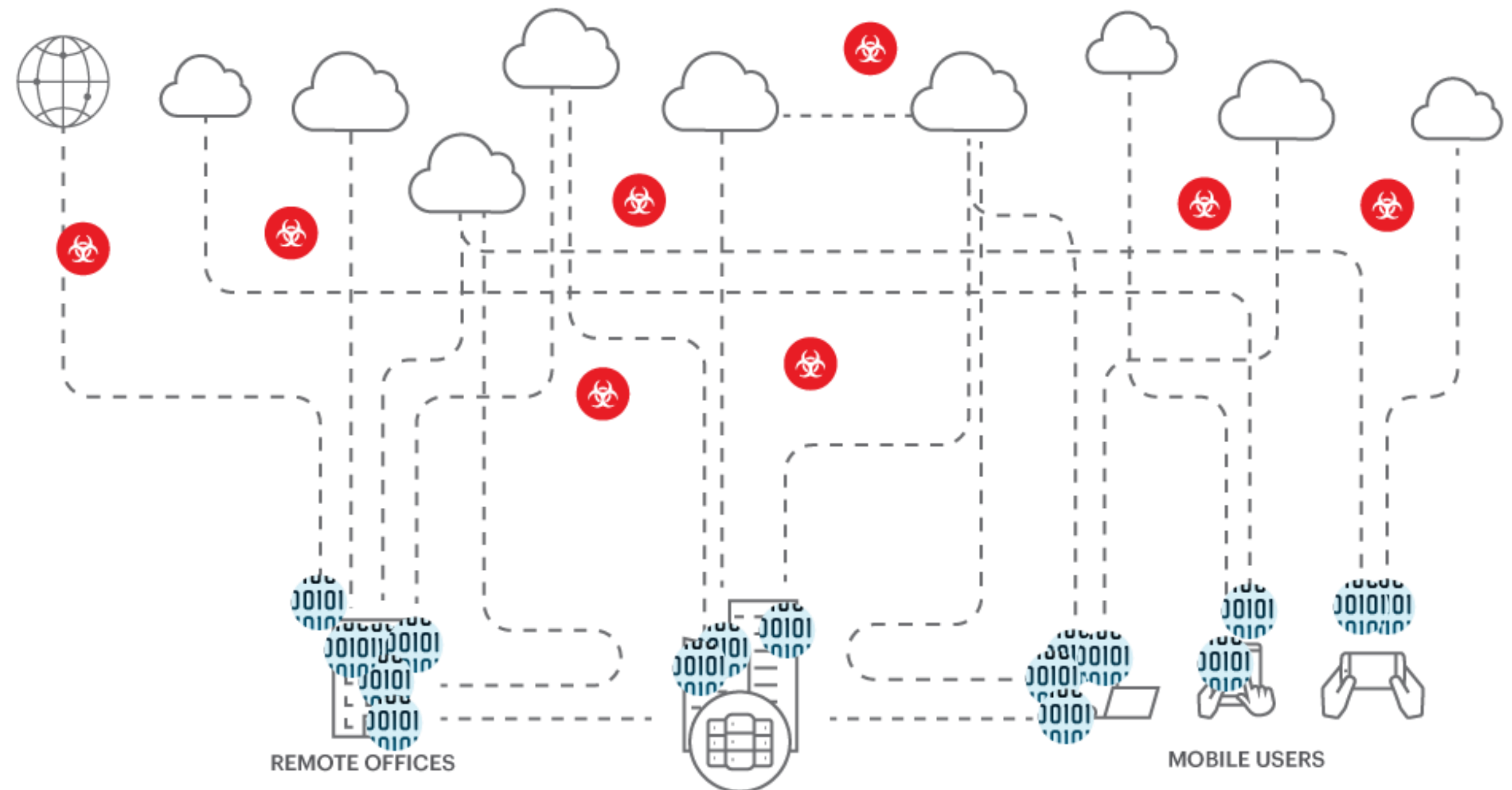
Public Cloud Apps and Services

Private Apps

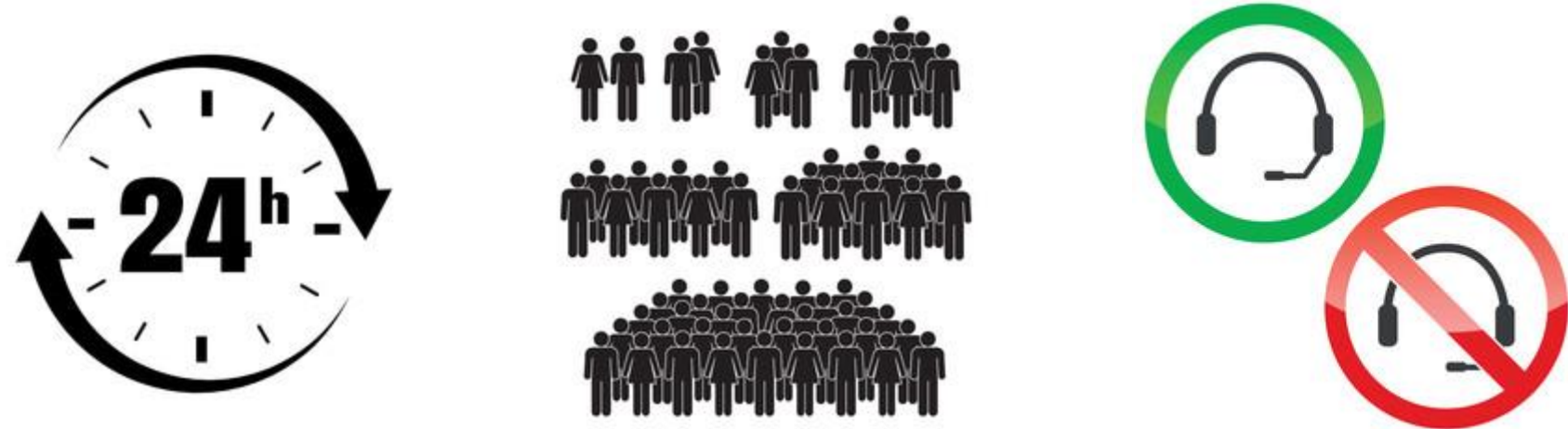


**Network
Traffic**

- Digital transformation is shifting network load to internet
- Explosive growth in SaaS & IaaS adoption
- Controls need to follow the data and the Applications



THE ACQUISITION AND IMPLEMENTATION OF 3RD PARTY IT SERVICES HAS BEEN DEMOCRATISED AROSS YOUR ORGANISATION



BUT THE RESPONSIBILITY TO GOVERN STILL SITS CENTRALLY

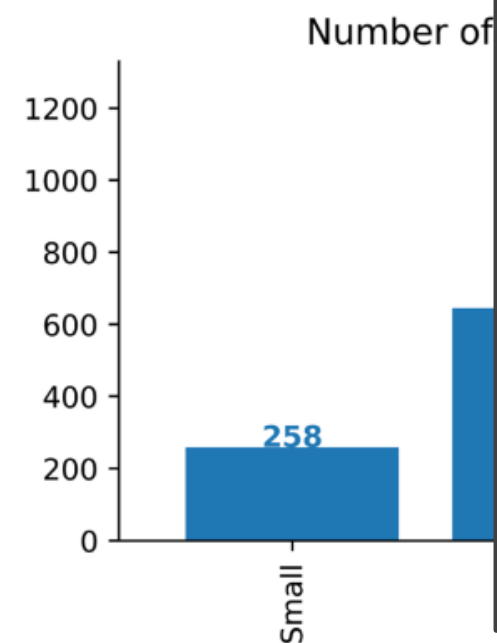
- TIME CONSUMING
- LARGELY MANUAL
- LIMITED SCOPE



JUST HOW BIG IS YOUR 3RD PARTY SUPPLY CHAIN?

- Small organizations with <500 users
- Medium organizations with 500 – 2000 users
- Large organizations with 2000 – 4000 users
- X-Large organizations with >4000 users

The number of apps increases with organization size, with organizations averaging 1,265 apps in December 2020.



REAL EXAMPLE

Visibility and control over unsanctioned SaaS Services

1,427 Cloud Apps discovered
61.18% Risky Apps

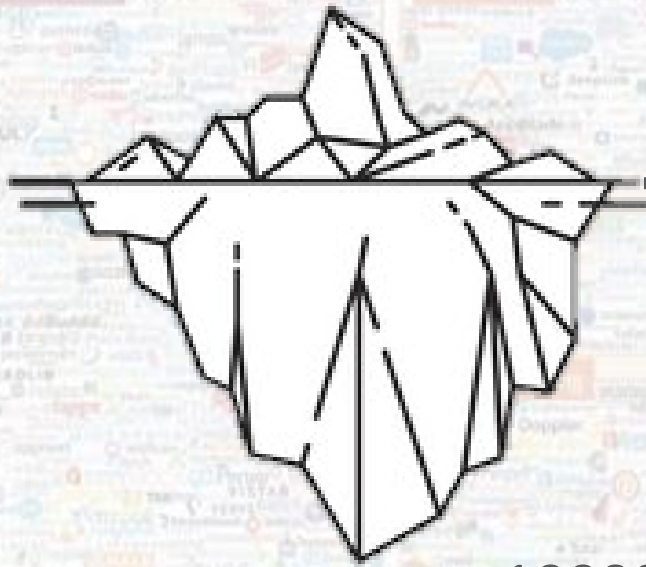
183 new apps discovered in the last 30 days

Visibility and control over data upload to cloud storage instances with non-approved vendor/party

713 Total Cloud Storage Instances Detected
(21 instances with ABC Corp's instance IDs)

34,552 uploads to unsanctioned instances blocked

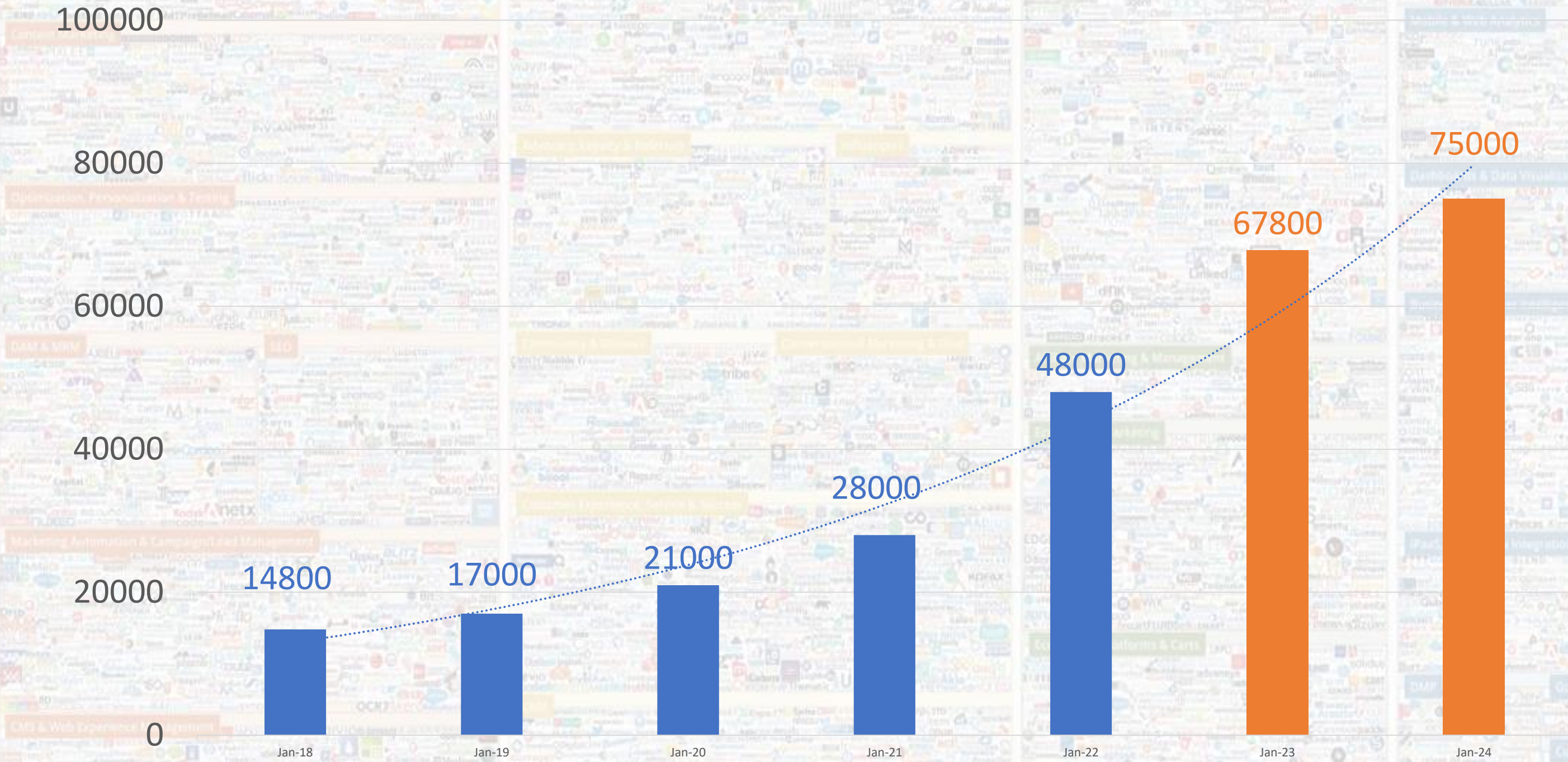




5%

95%

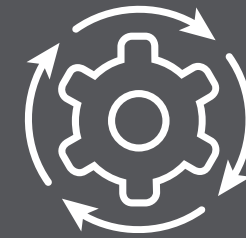
Actual and Projected Number of Cloud Apps



TRADITIONAL 3RD PARTY RISK PROGRAM BUILDING BLOCKS



Legal Risk



Operational Risk



Financial Crime Risk
(e.g. ABC, CTF etc.)



ESG (e.g. Modern Day
Slavery)

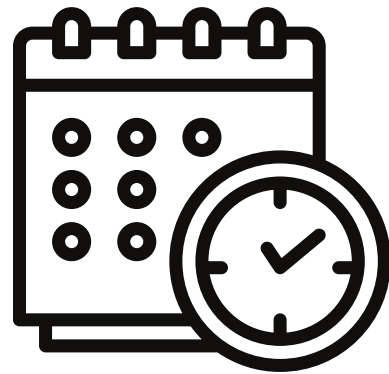


Technology Risk



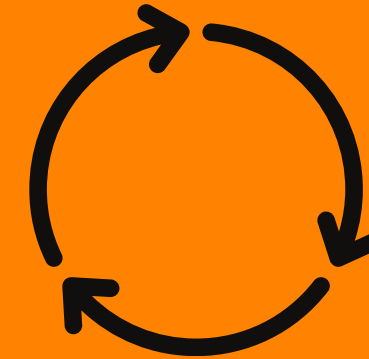
Cyber Risk

SCHEDULED TIERED REASSESSMENTS



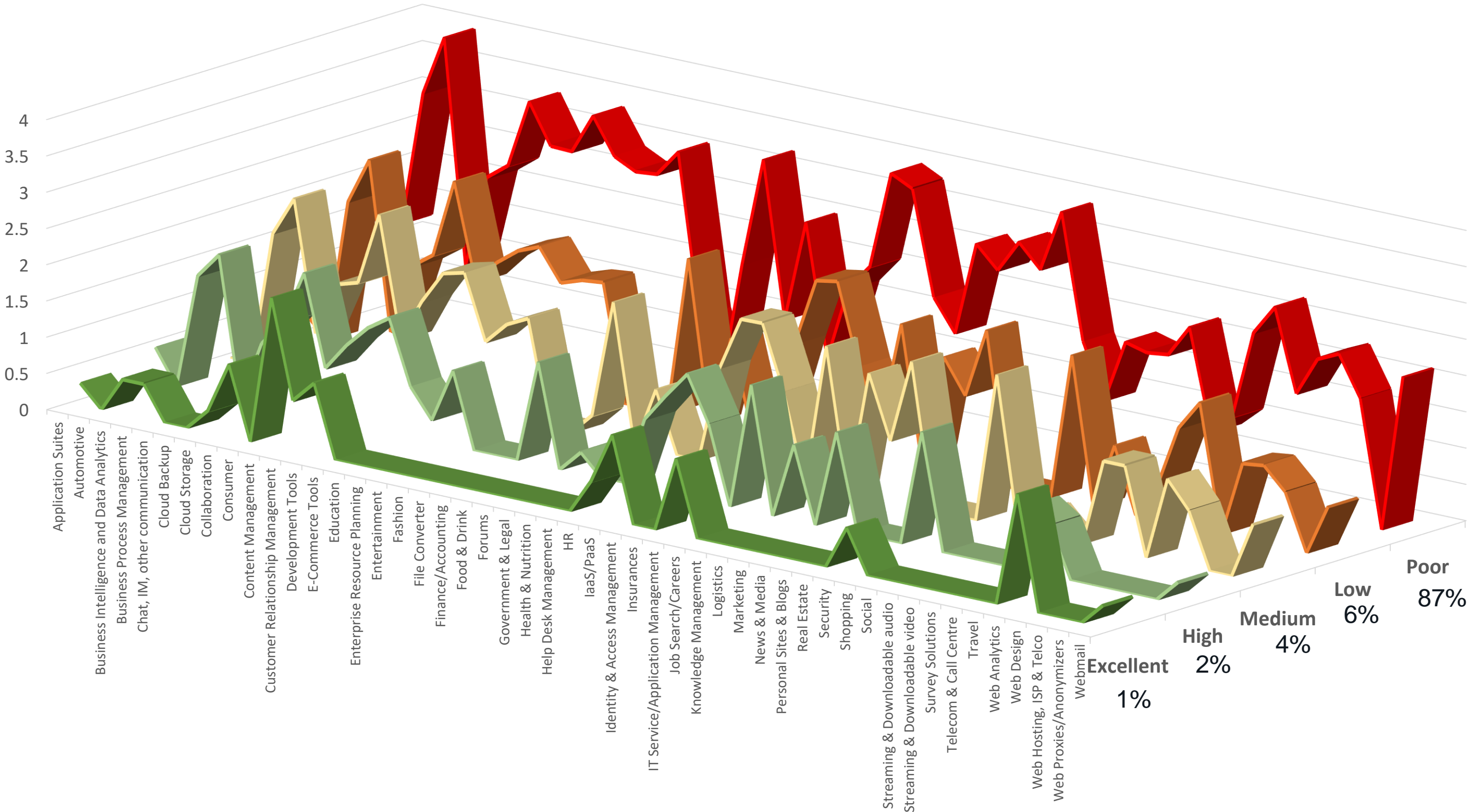
- **DETERMINE INHERENT RISK**
- **TIER BASED ON CRITICALITY**
- **REASSESS EACH TIER ON A SCHEDULE:**
 - **TIER 1 - ANNUALLY**
 - **TIER 2 - EVERY TWO YEARS**
 - **THE REST = RISK ACCEPTANCE**

CONTINUOUS RISK MONITORING



- **REAL TIME INFORMATION**
- **REAL TIME CONTROL**
- **INTELLIGENCE LED – DATA DRIVEN DECISIONS**
- **ADVANCED ANALYTICS**

SO WHAT DOES THE INHERENT RISK LOOK LIKE?



50,000 Cloud Apps – Ranked from Excellent (1%) to Poor (87%)

CLOUD APP CATEGORIES WITH THE POOREST SCORES



APPLICATIONS

EXTERNAL APPS
(SAAS & WEB)

INTERNAL APPS (DATA
CENTER / IAAS)



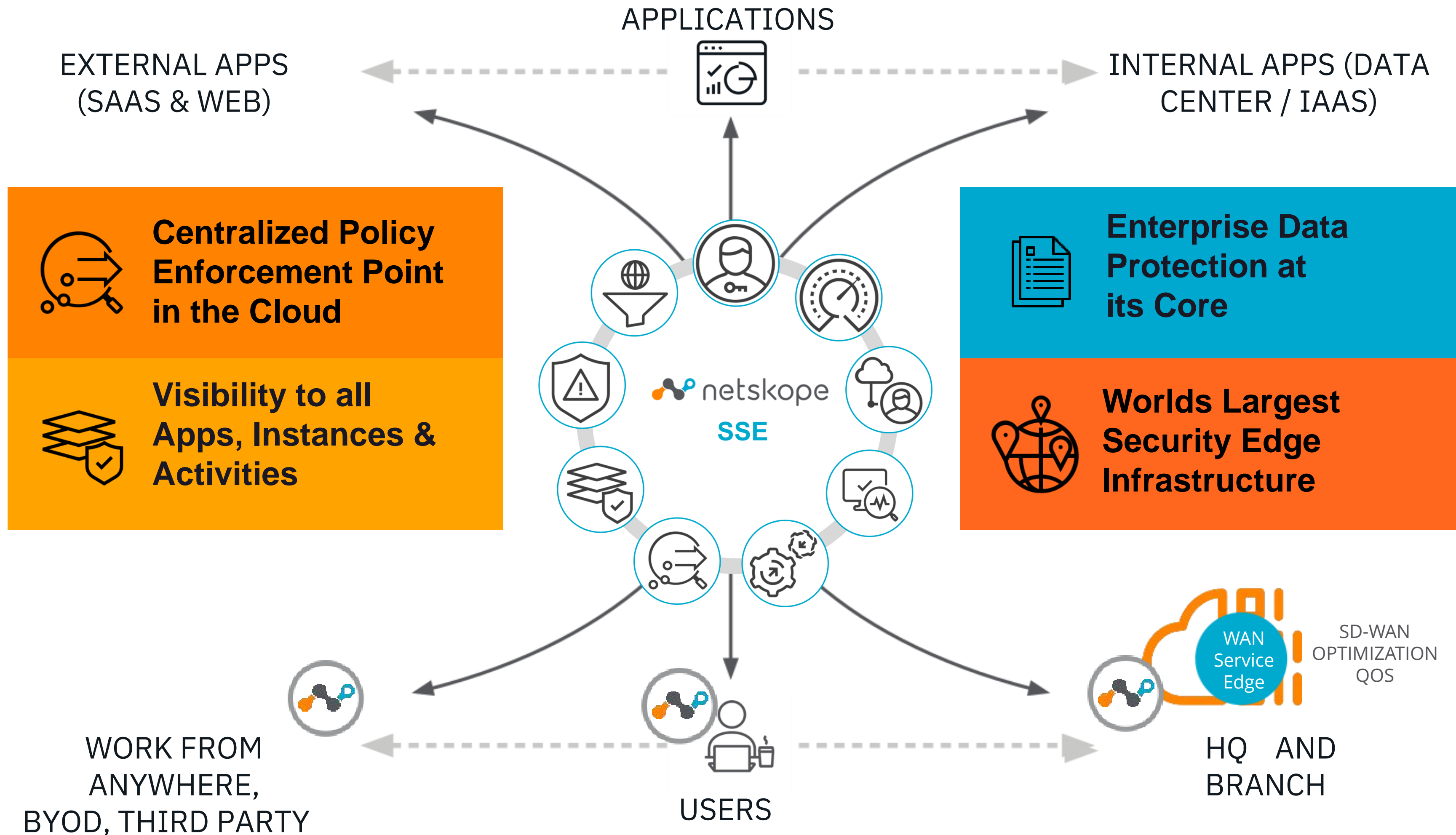
Security
Service Edge



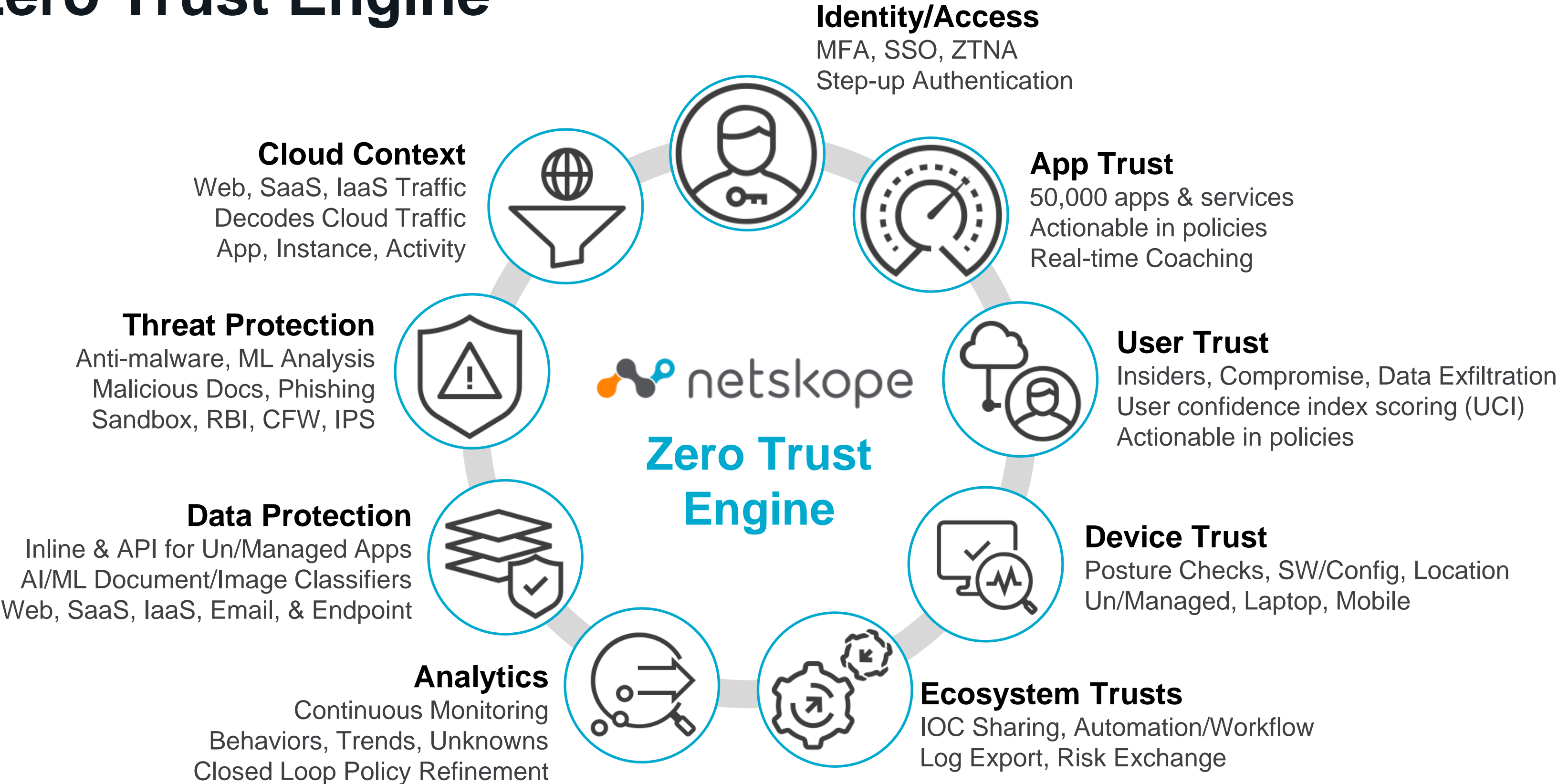
USERS

WORK FROM
ANYWHERE,
BYOD, THIRD PARTY

HQ AND
BRANCH



Zero Trust Engine



All Apps

RESET SCORES

CANCEL

CCI LEVEL

Search App Name

Search

49,518 matches found.

CUSTOM APP TAGS

All Custom Tags

IT-Dept Sanctioned Only

CorporateSanctionedApp

APPLICATION CATEGORIES

All Categories

Advocacy Groups & Trade Associations

App Admin Console

Application Suite


Arts

Auctions & Marketplaces

Automotive

Business


Business Intelligence and Data



96

Amazon Database

Amazon Database provides managed database services that includes relational databases for...




96

google-docs

docs.google.com

Google Docs brings your documents to life with smart editing and styling tools to help you easily...




96

Work.com

work.com

Work.com is a corporate performance management platform for sales representatives...



95

Amazon Elastic Container Service

Highly secure, reliable, and scalable way to run containers

Amazon EC2 Container Service



96

Microsoft Azure

Microsoft Azure is a cloud computing service that provides infrastructure, crea...




96

Amazon DynamoDB

dynamodb.amazonaws.com

Amazon DynamoDB is a fully managed database service that provides fast a...



96

AWS Lambda

Amazon Lambda

NETSKOPE CLOUD CONFIDENCE INDEX™

CONTINUOUS REAL-TIME ASSESSMENT OF APP RISK



**50,000+ CLOUD SERVICES, AND COUNTING;
REVIEWED EVERY TWO WEEKS**



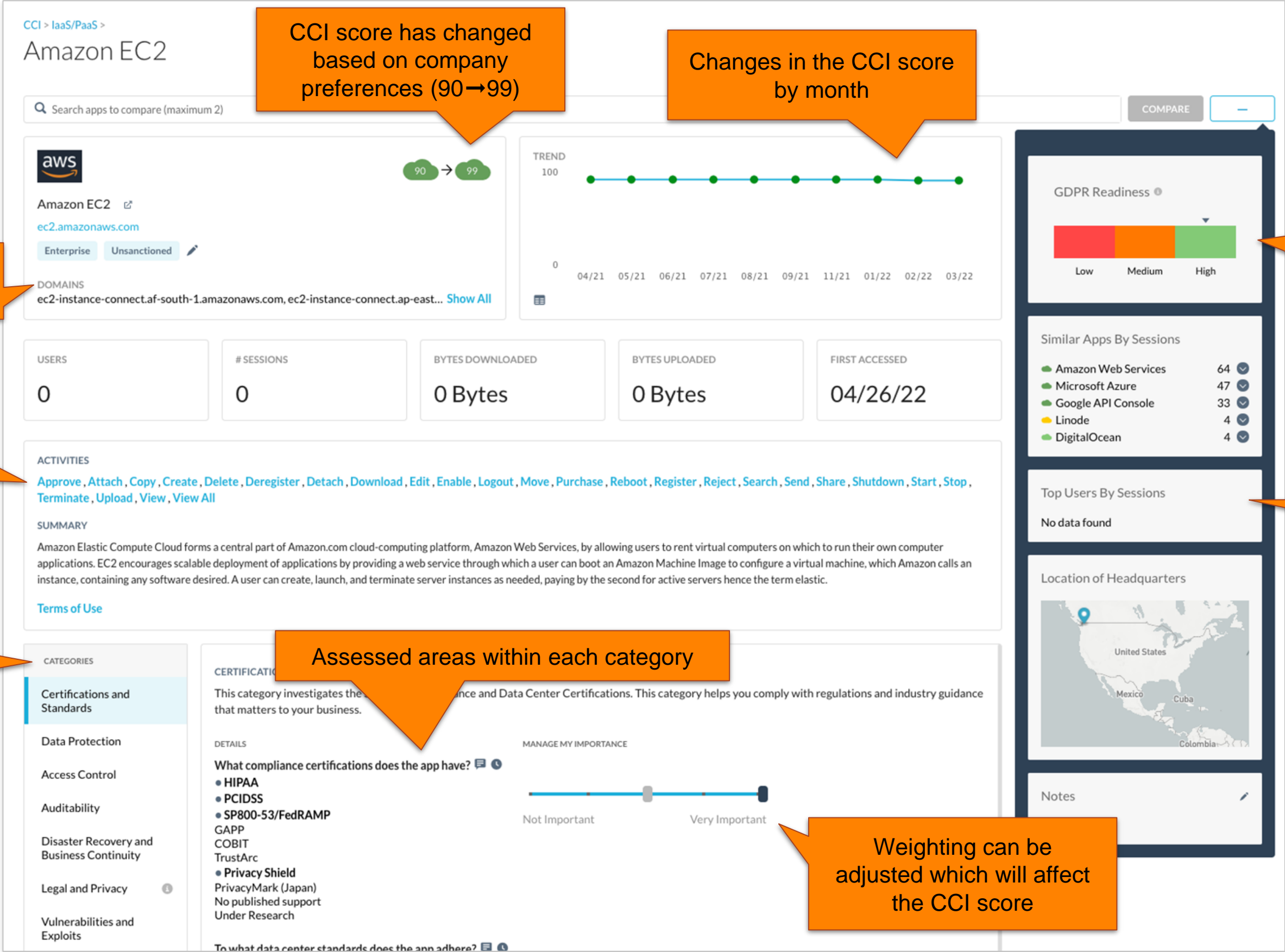
**CSA CCM AS A BASE WITH
VULNERABILITIES, BREACHES AND
TERMS AND CONDITIONS ADDED**



**RISK SCORES CAN BE
USED IN POLICIES**

Application Trust

Cloud Confidence Index (CCI) - Sample Entry for Amazon Web Services EC2



CONTEXTUALISE THE RISK TO YOUR ORGANISATION

Cloud Confidence Index (CCI)

All Apps

RESET SCORES

CANCEL

CCI LEVEL

Search App Name

49,518 matches found.

- CUSTOM APP TAGS
- All Custom Tags

IT-Dept Sanctioned Only

CorporateSanctionedApp

- APPLICATION CATEGORIES
- All Categories

Advocacy Groups & Trade Associations

App Admin Console

Application Suite

Arts

Auctions & Marketplaces

Automotive

Business

Business Intelligence and Data Analytics

Business Process Management

Chat, IM & other communication

aws

Amazon Database

Amazon Database provides managed services that includes relational data...

Google

google-docs

docs.google.com

Google Docs brings your documents to smart editing and styling tools to help...

salesforce

Work.com

work.com

Work.com is a corporate performance management platform for sales repre...

Amazon Elastic Container Service

Amazon EC2 Container Service

ecs.eu-west-3.amazonaws.com

Amazon Elastic Container Service (An...

Cloud Confidence Index (CCI)

Discovered Apps

RESET SCORES

CANCEL

CCI LEVEL

Search App Name

358 matches found.

- CUSTOM APP TAGS
- All Custom Tags

IT-Dept Sanctioned Only

CorporateSanctionedApp

- APPLICATION CATEGORIES
- All Categories

Advocacy Groups & Trade Associations

App Admin Console

Application Suite

Arts

Auctions & Marketplaces

Microsoft Azure

Microsoft Azure

windowsazure.com

Microsoft Azure is a cloud computing infrastructure, created by Microsof...

amazon s3

Amazon S3

s3.amazonaws.com

Amazon Simple Storage Service (Ar...

Google Sites

Google Sites

sites.google.com

Google Sites is a structured wiki- ar...

Cloud Confidence Index (CCI)

Sanctioned Apps

RESET SCORES

CANCEL

CCI LEVEL

Search App Name

14 matches found.

- CUSTOM APP TAGS
- All Custom Tags

IT-Dept Sanctioned Only

CorporateSanctionedApp

- APPLICATION CATEGORIES
- All Categories

Advocacy Groups & Trade Associations

App Admin Console

Application Suite

Arts

Auctions & Marketplaces

Google Drive

Google Drive

drive.google.com

Google Drive provides a single place to store, access, create, edit and share documents, files, an...

Microsoft | Microsoft 365

Microsoft Office 365 Suite

login.microsoftonline.com

The Microsoft Office 365 Suite listed in Netskopes application suite category tracks user...

OneDrive for Business

Microsoft Office 365 OneDrive for Business

officeapps.live.com

OneDrive for Business is Microsoft's cloud storage offering. Users can store, sync, and share their...

SharePoint Online

Microsoft Office 365 Sharepoint Online

sharepoint.com

Microsoft Office SharePoint Online is a cloud-based service that helps organizations share ar...

zoom

Zoom

zoom.us

Zoom unifies cloud video conferencing, online meetings, group messaging, and software-defin...









slack

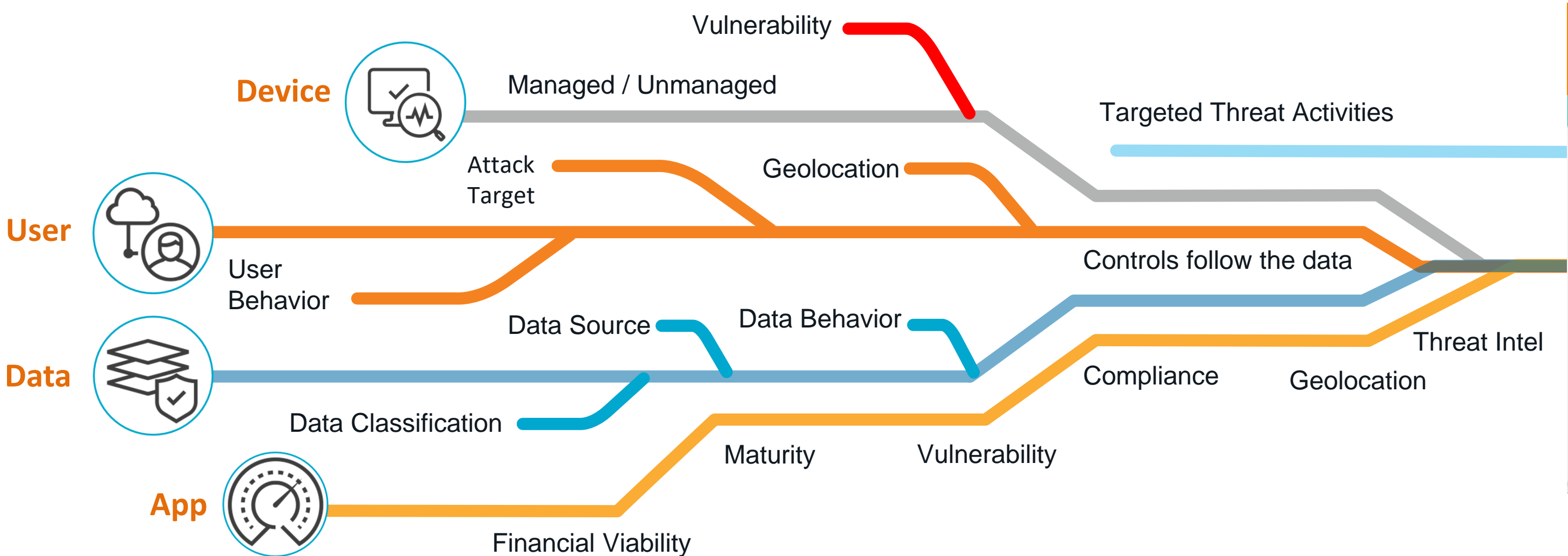
Slack

slack.com


Slack is a team communication application providing services such as real-time messaging

Continuous Assessment of App Risk feeding your *adaptive* & *context-driven* security controls

Identity	Device Risk	SaaS App	App Instance	App Risk Rating	URL Category	Activity Controls	User Risk Rating	Threat	DLP	Policy Action
 Pat Smith Accounting <div>Logged in as psmith@ gmail.com</div>	 <div>Managed</div>  Personal/ BYOD	 Zippy Share <div>Managed Unmanaged</div>	 Company  Personal	 14 Poor rating (high risk) <div>Breadth of 50K+ Apps</div>						 <div>Contextual: Allow <div>Coach</div><div>Block</div> Encrypt Legal Hold Quarantine</div>



Real-time, Customizable
User Coaching

 So
Close

File Sharing Site Blocked Due to Low Cloud Confidence Level
You have been blocked from accessing Zippyshare due to its rating falling below our allowed threshold.
If you require access to this site, please indicate the reason why in the box below.
Our standard file sharing application is Microsoft OneDrive. You can access that [here](#).

This window will auto-close in **51 seconds**

OK

COLLABORATE DON'T RESTRICT

GOOGLE DRIVE = <https://drive.google.com>



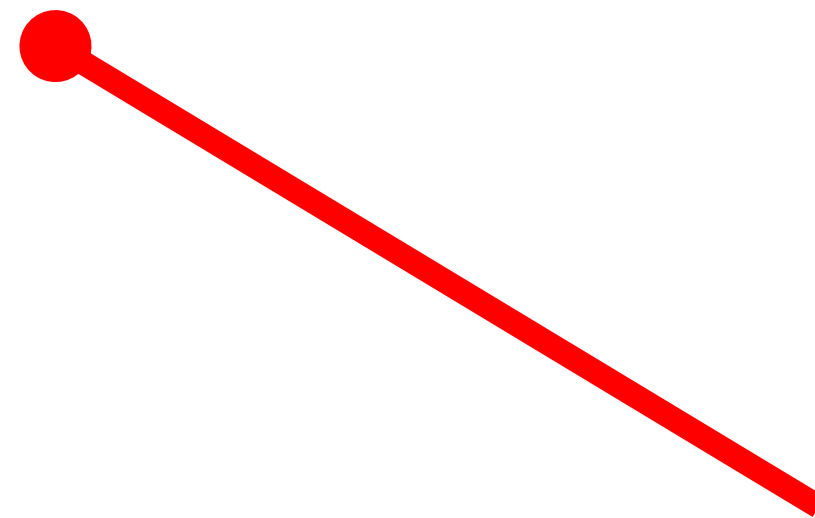
Personal



Corporate




Partner



DATA

USE RISK TO ENABLE THE BUSINESS



ACME COLLEGE
EST. 2022 BUSINESS SCHOOL

Temporary Access Allowed - Justify Access

If you have a business reason for performing this action provide an explanation

Hi, mferguson@netskopeacmeinc.onmicrosoft.com, the activity you are trying to perform is not authorised.

Diagnostic Information:

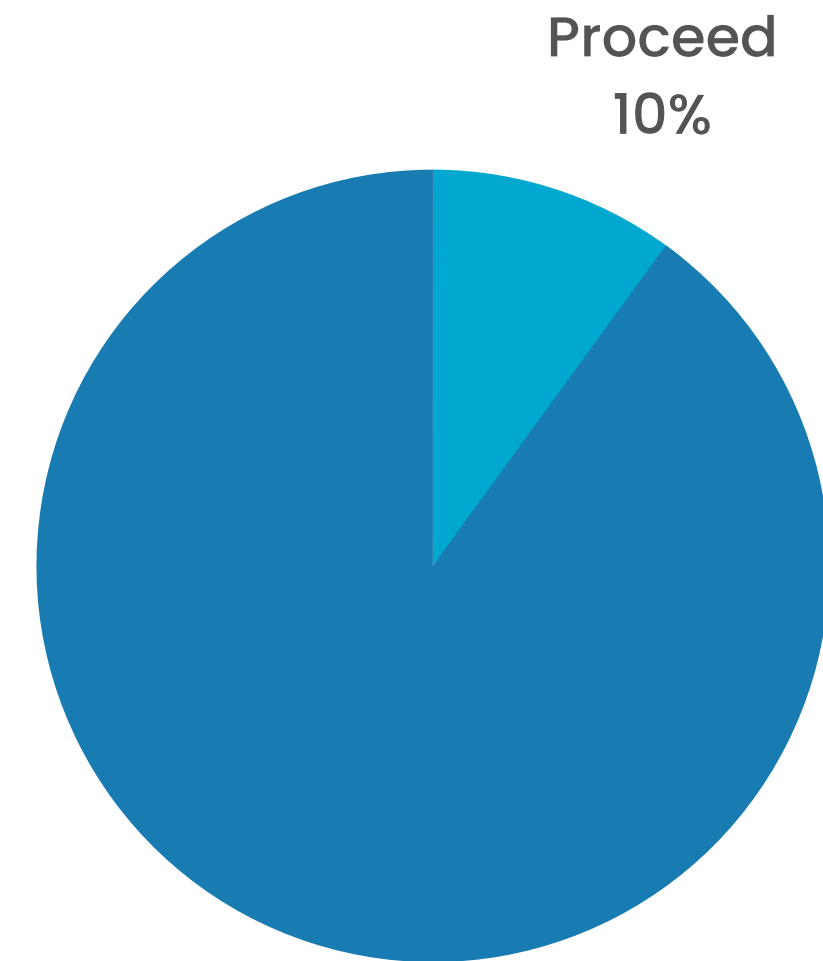
- Application: Microsoft Office 365 OneDrive for Business
- Activity: Delete

☒ Justify Usage
☐ Report False Positive

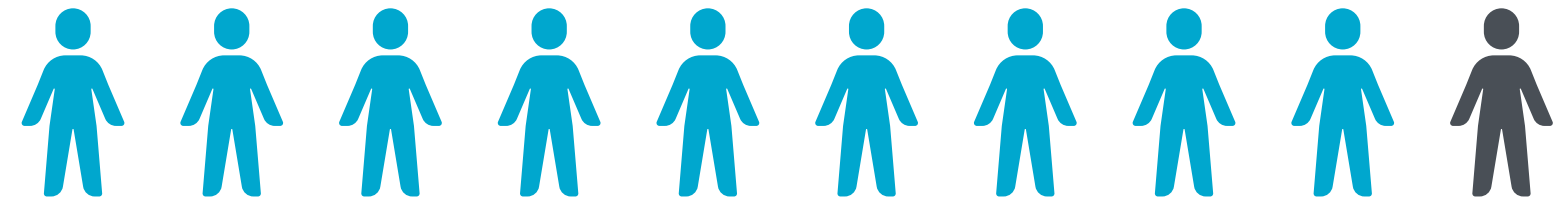
Please close this tab.
This window will auto-close in 59 seconds

Exit

Proceed



Stop
90%

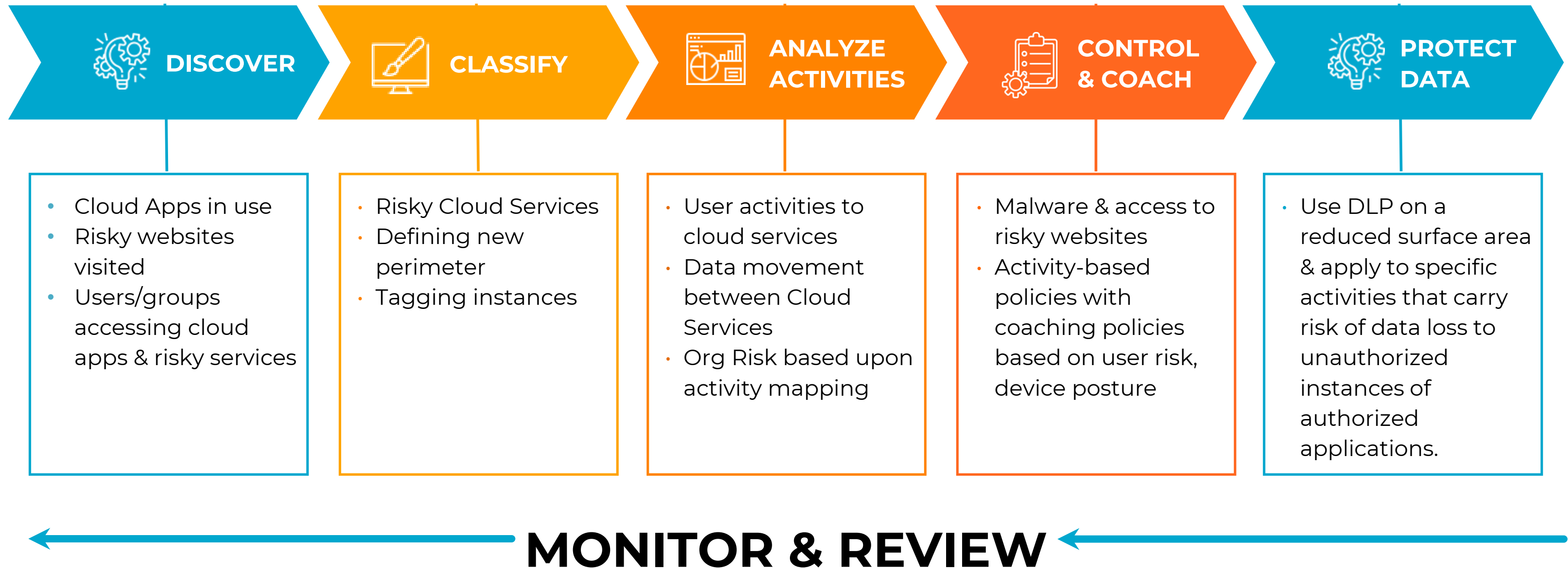


Providing Risk Associated Guardrails educates
the end users in real time.

RISK POLICY FRAMEWORK

3rd PARTY RISK IDENTIFICATION

RISK MITIGATION





THANK YOU