



# Securing the Anywhere Organization

*Any location, any device, any resource*

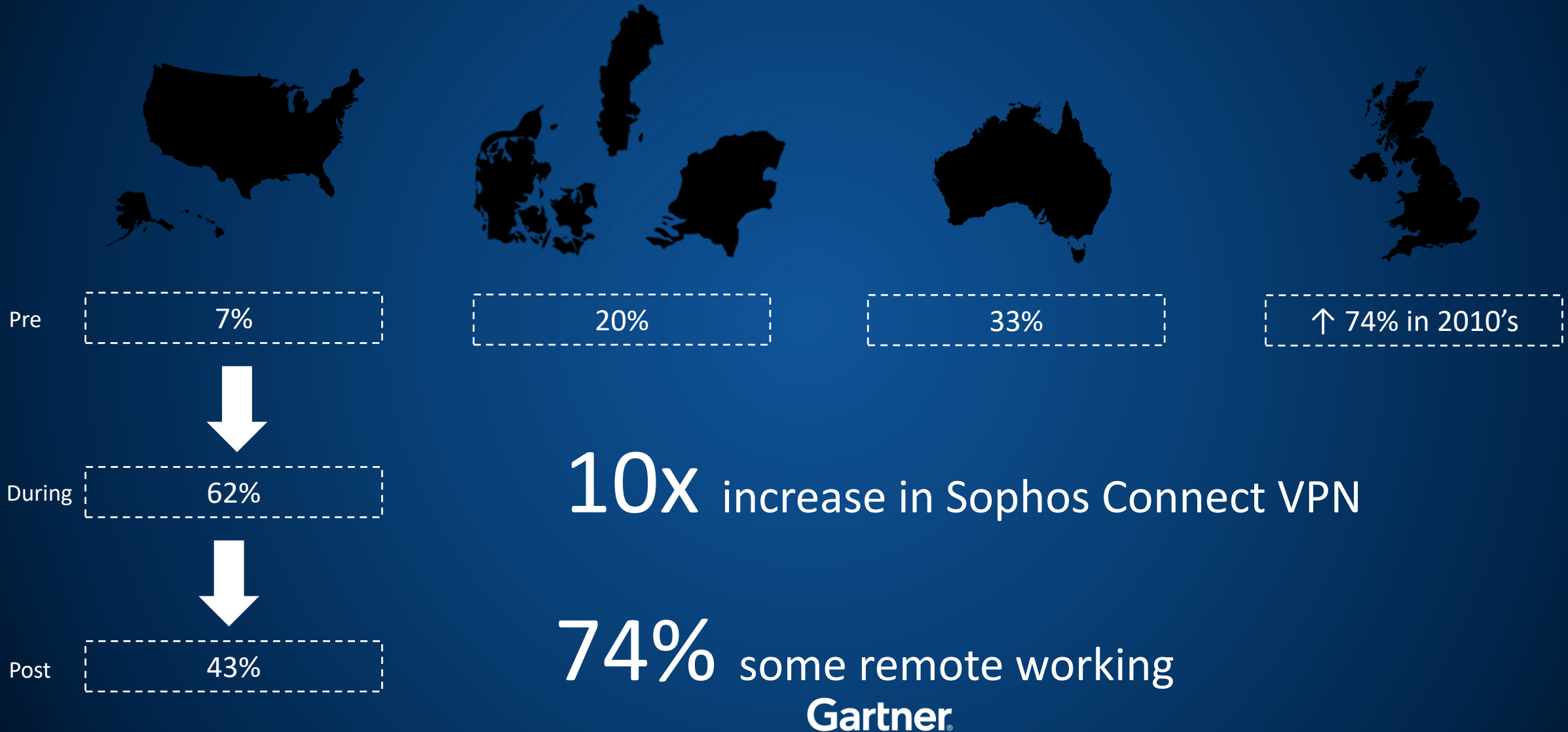
**Wana Tun**

Global Solutions Engineer (CISSP, CEH, GNFA)

26<sup>th</sup> Feb 2021

**SOPHOS**

# The World Has Changed: Workers Are Remote



# The World Has Changed: Cloud Use Has Soared

## **CONSUMING**

*CLOUD-BASED APPLICATIONS*



## **CREATING**

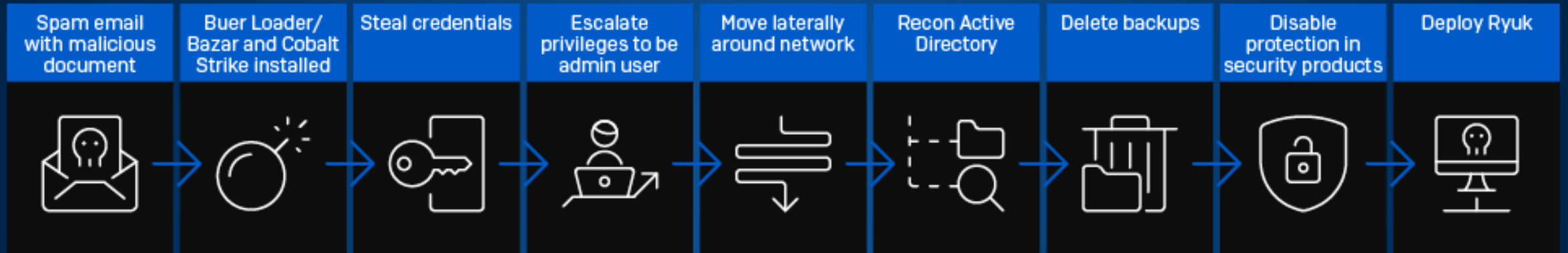
*CLOUD INFRASTRUCTURE ENVIRONMENTS*



**40%+** of the world's data will be stored in  
hyperscale/cloud data centers by 2023



# The World Has Changed: Attacks Are More Advanced



Ryuk ransomware attack kill chain

# The World Has Changed: The Reality of Cyber Attacks

51%

hit by ransomware  
last year

73%

of ransomware  
attacks encrypted  
data

70%

had a cloud security  
incident in the last  
year



VansonBourne

# Today's Challenge: Securing The Anywhere Organization

Any location

Secure connectivity

Any device

Secure computers, phones, tablets

Any resource

Secure data and workloads

## ***SECURE CONNECTIVITY***



Home



Office



Cafe



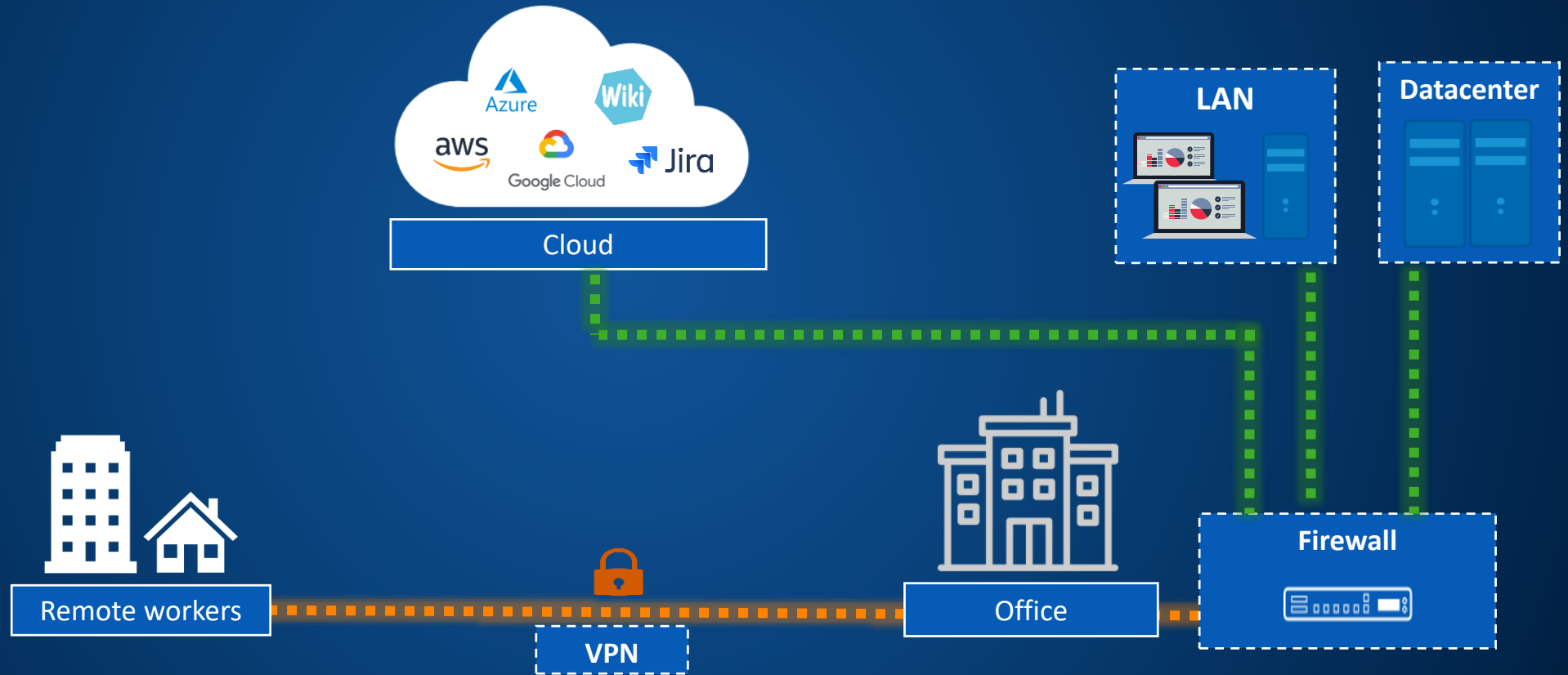
Customer Site



Car



# Secure Access: VPN

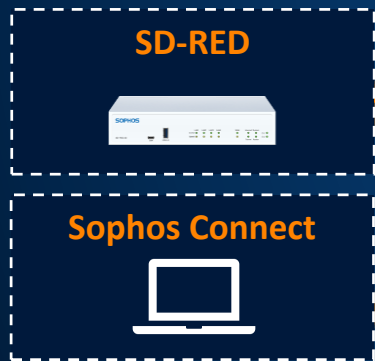
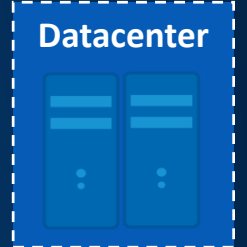
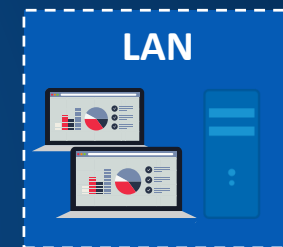




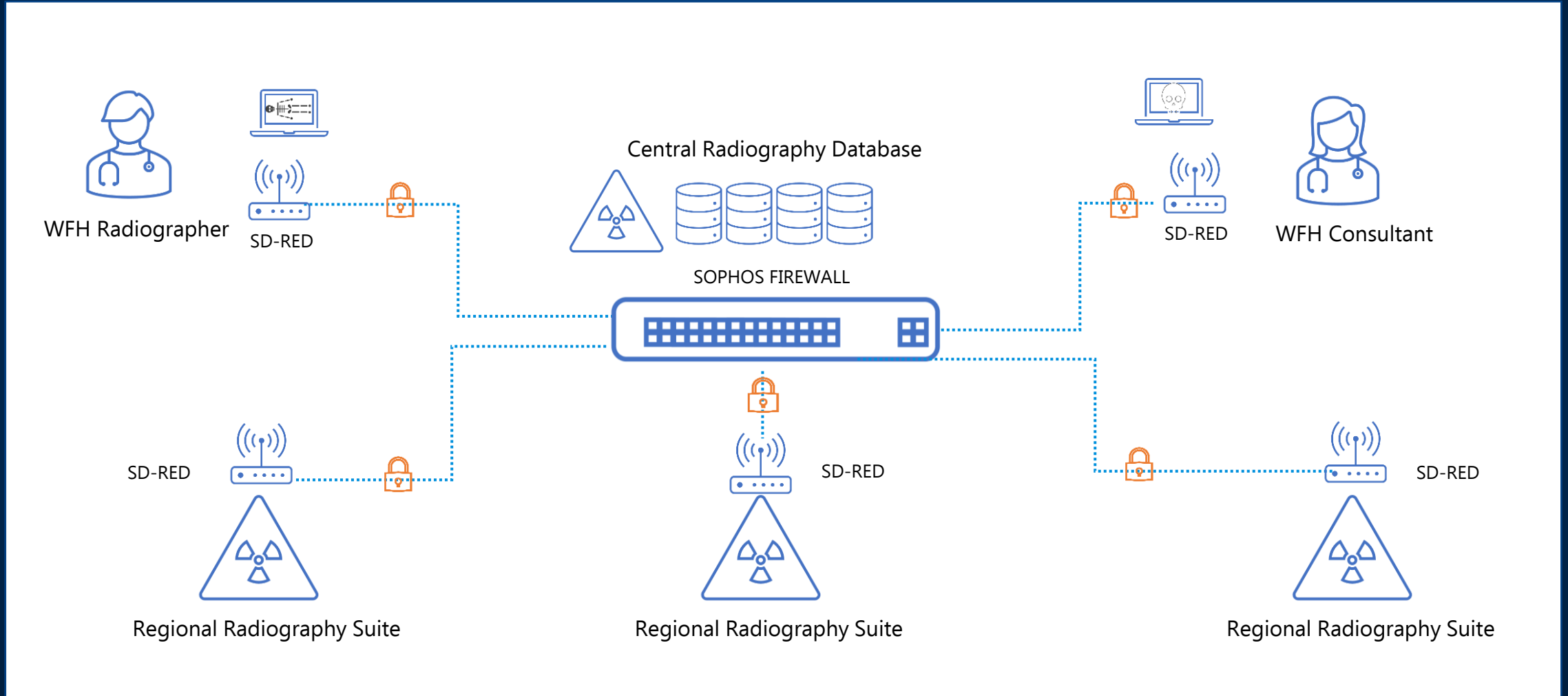
# Secure Access: Sophos Firewall VPN

FREE

1.4M  
USERS



# Secure Access: XG Firewall and SD-RED in Action



# Remote Access Technology Is Evolving

**Enhance Access Controls**



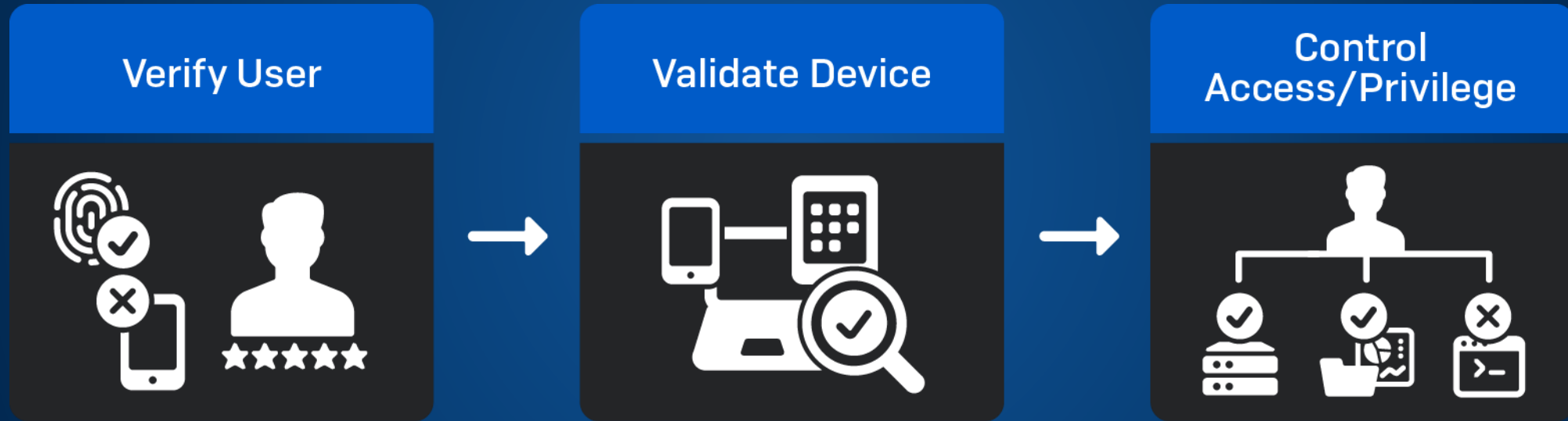
**Prevent Lateral Movement**



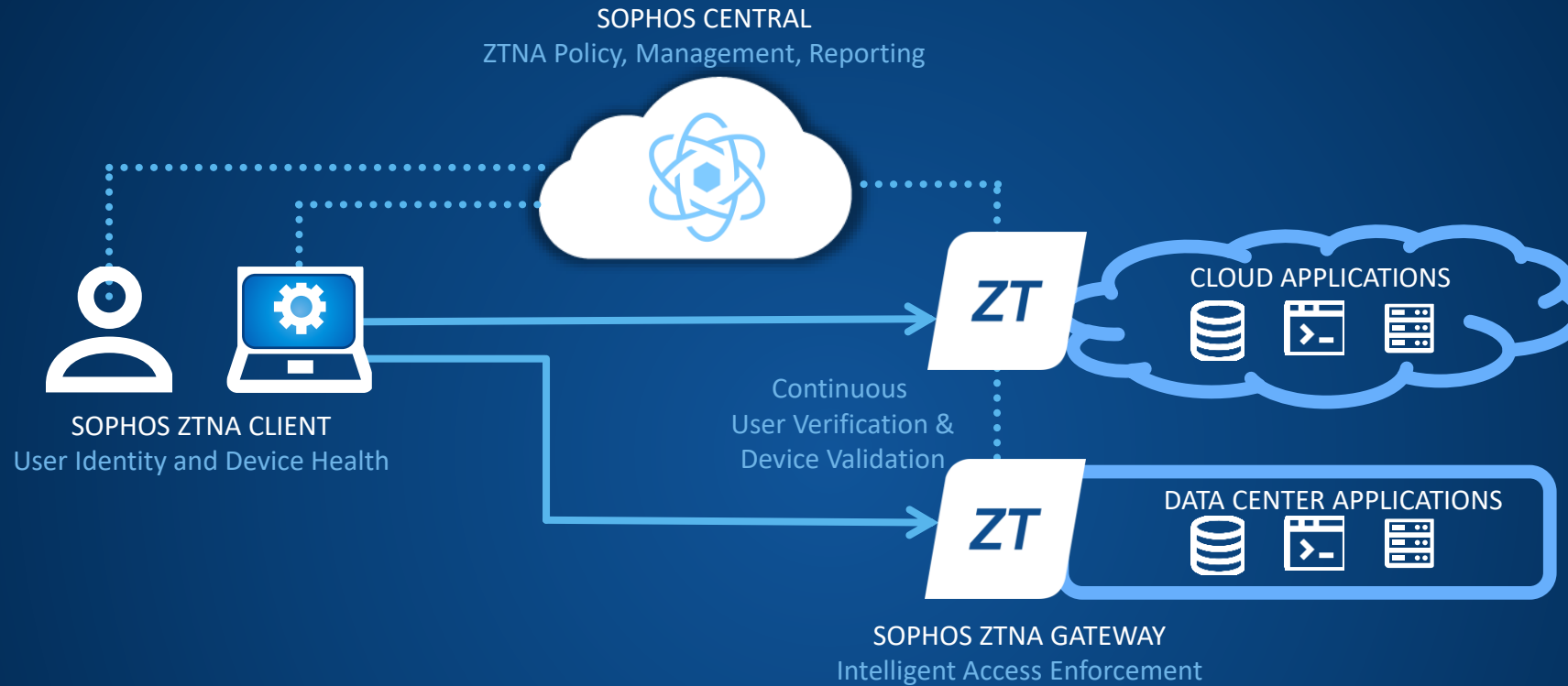
**Reduce Friction**



# Zero Trust Network Access (ZTNA)



# Sophos ZTNA: Cloud-delivered, Cloud-Managed



## ZTNA Client

- Easy deployment
- Transparent and frictionless
- Integrates identity and device health continuously
- Windows, Mac\*, Mobile\*

\*Roadmap



## Sophos Central

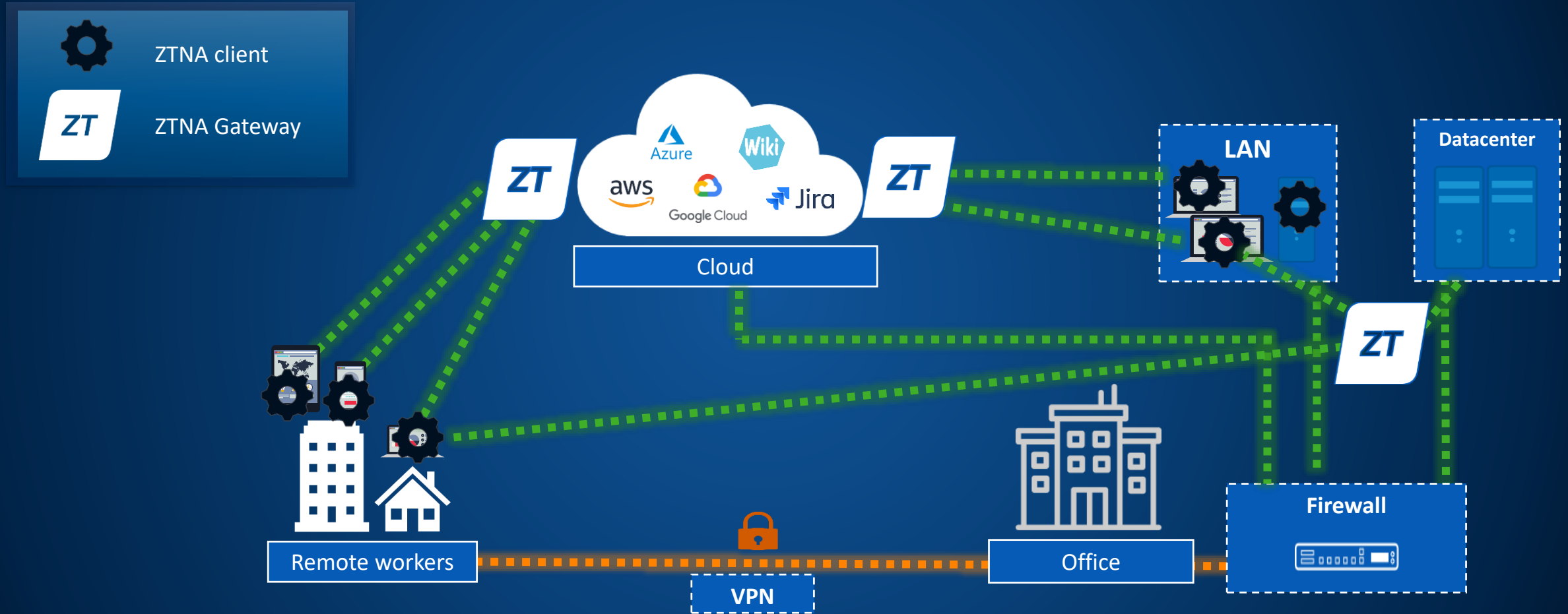
- Central management
- Granular policy controls
- Insightful reporting
- Manage alongside other Sophos products



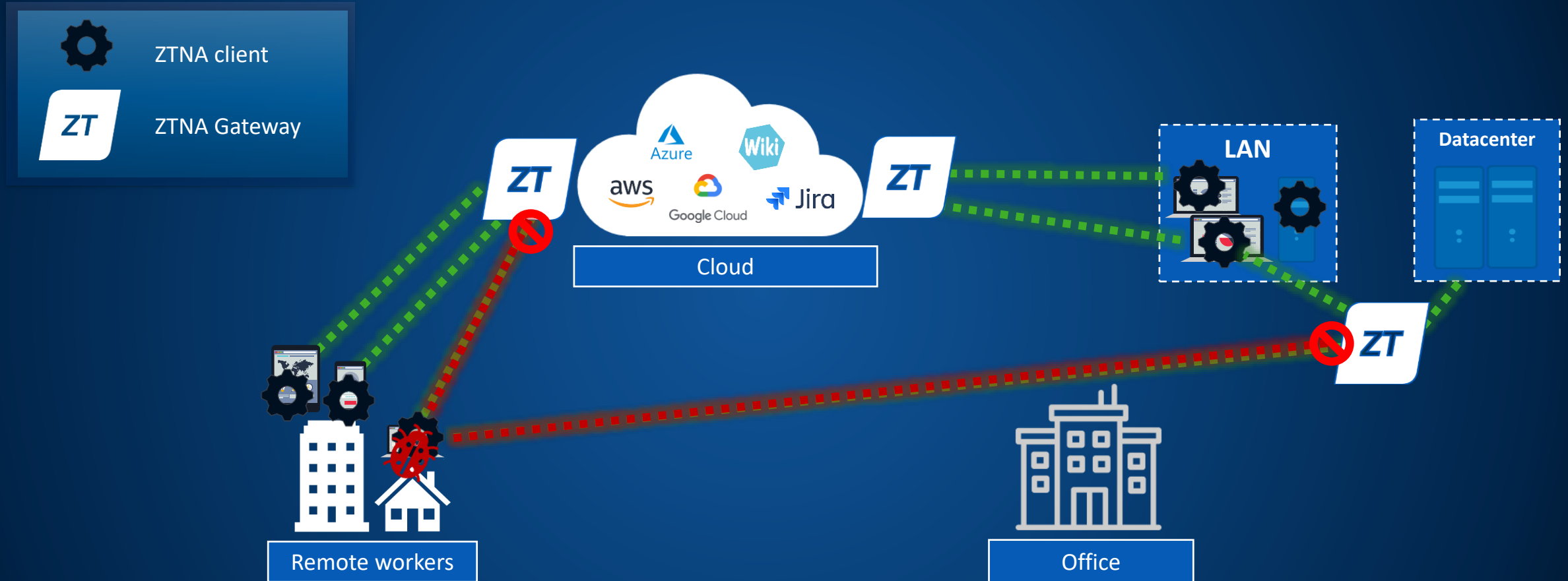
## ZTNA Gateway

- Software/VM based for cloud
- Continuously verifies and validates access based on policy
- Log and event data shared with Sophos Central

# Sophos ZTNA



# Sophos ZTNA





# Sophos ZTNA: Delivering the Future

## Enhance Access Controls



- Granular controls based on policy and risk
- No implicit trust – continual assessment of identity and device health

## Prevent Lateral Movement



- Access granted to resources, not the whole network

## Reduce Friction



- Easy enrollment
- Transparent connectivity that 'just works'

SOPHOS

Admin

Zero Trust Network

Back to Overview

ANALYZE

Dashboard

Reports

MANAGE PROTECTION

Identity providers

Gateways

Applications

Zero Trust - Applications

Overview / Zero Trust Dashboard / Applications

Help Administrator Super Admin

Add Application

Name	Gateway	Port	Resource Fqdn/IP	Application Type	
Apache Web Server	Burlington Gateway	443	apache.ztnaqa.ga	Web Application	
Sophos Git Repository	Burlington Gateway	443	git.ztnaqa.ga	Web Application	
Jira Issue and Project Tracker	Santa Clara Gateway	443	jira.ztna.ga	Web Application	

SOPHOS

Admin

Zero Trust Network

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Zero Trust - Identity Providers

Overview / Zero Trust Dashboard / Identity Providers

Help Administrator Super Admin

Add Identity Provider

Name	Provider	Description	
AzureIDP	Azure AD	IDP for all external vendors	
QE-IDP	Azure AD	IDP set-up for ZTNA quality assurance team	
Dev-IDP	Azure AD	IDP set-up for ZTNA development team	

Add Application

Name \*

Jira Application

Application Icon

+ Choose

Description

Jira Application

Application Type \*

Web Application

Gateway \*

MyGateway66

Resource FQDN/IP \*

jira.sophos.com

Port \*

443

Assign user groups \*

Available User Groups

ZTNA\_ALL

ZTNA\_IT

ZTNA\_QE\_ADMIN

ZTNA\_SANDBOX

Assigned User Groups

ZTNA\_DEV

ZTNA\_QE

Cancel

Deploy

SOPHOS

Admin

Zero Trust Network

Back to Overview

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Gateways

Applications

Zero Trust - Gateways

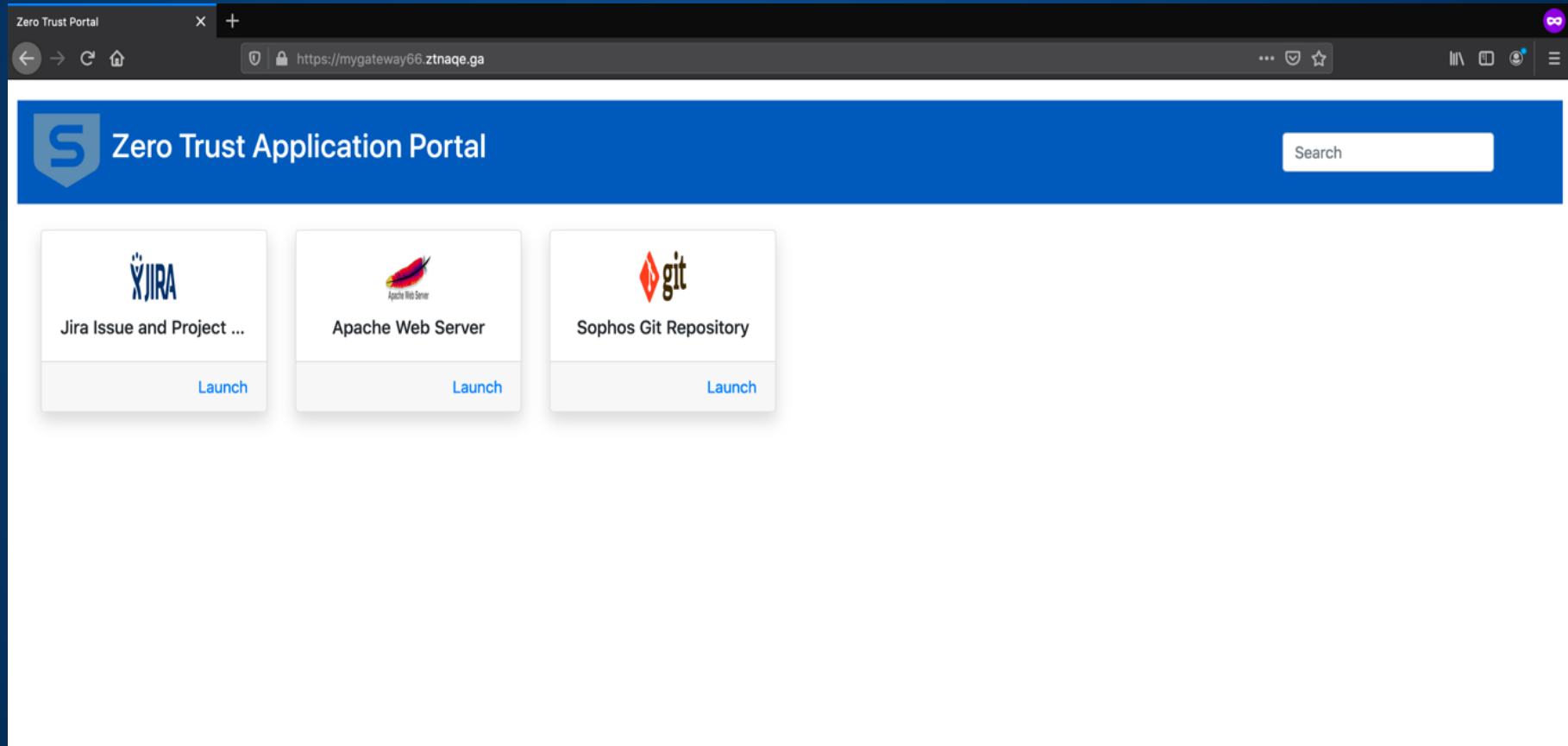
Overview / Zero Trust Dashboard / Gateways

Help Administrator Super Admin

Add Gateway

Name	FQDN	Identity Provider	Status	Package Type	
Abingdon Gateway	mygateway.ztna.ga	Dev-IDP	Approved	VMware	
Ahmedabad Gateway	mygateway2.ztna.ga	Dev-IDP	Waiting for deployment	VMware	
Bangalore Gateway	mygateway1.ztna.ga	Dev-IDP	Disconnected	VMware	
Burlington Gateway	mygateway66.ztnaqa.ga	QE-IDP	Connected	VMware	
Santa Clara Gateway	mygateway662.ztnaqa.ga	QE-IDP	Waiting for deployment	VMware	

# User Portal Screen



# Sophos ZTNA

Now

Join the early access  
program

Mid-2021

Full availability

## ***SECURE DEVICES***



Mobile



Desktop



Server



macOS



Windows



Android



Chromebook



iOS



Linux

# Intercept X: The World's Best Endpoint Protection

## Anti-ransomware



Unauthorised  
Encryption



## Deep Learning AI



Unknown  
Executables



## Anti-exploit



Exploits  
File-less Attacks



## Foundational



Known  
Threats

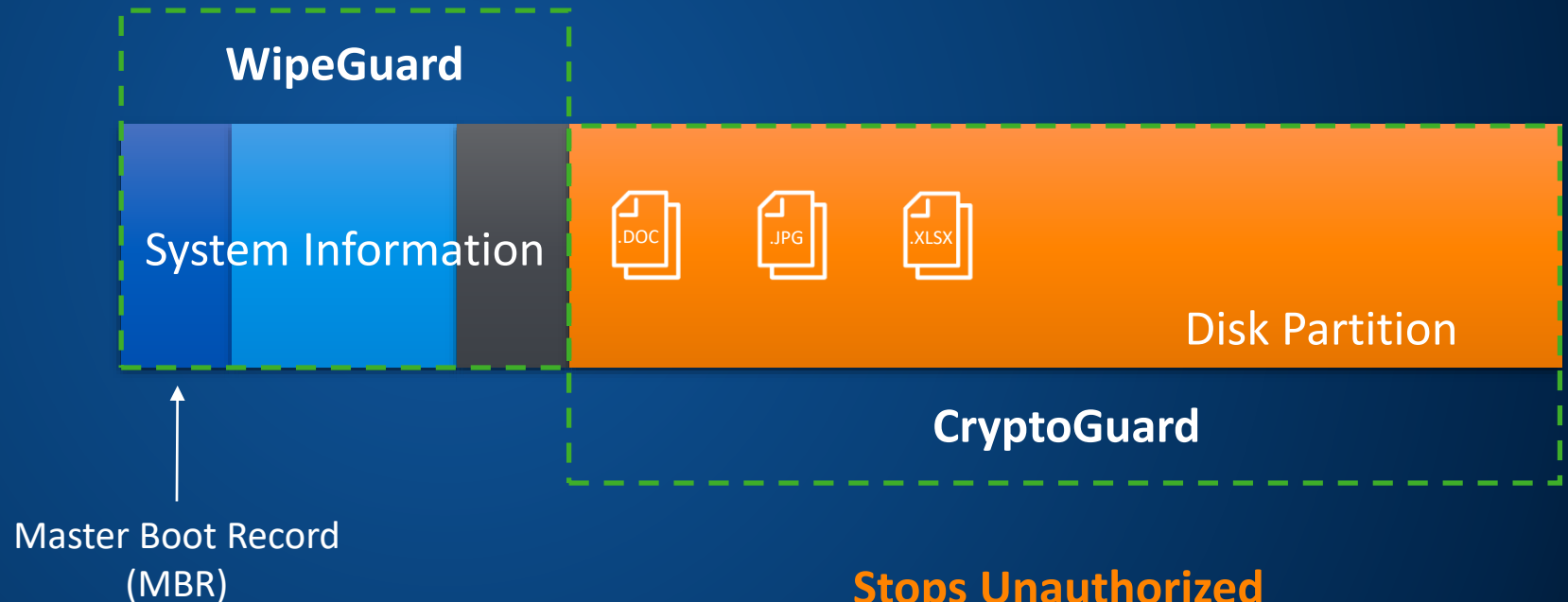
# Intercept X: The World's Best Endpoint Protection

## Anti-ransomware



Unauthorized  
Encryption

Protects Disks and  
Boot Records



**Stops Unauthorized  
File Encryption**



# Intercept X: The World's Best Endpoint Protection

## Anti-ransomware



Unauthorised  
Encryption



## Deep Learning AI



Unknown  
Executables

- ✓ Stops unknown threats
- ✓ Scales effectively
- ✓ Performs efficiently

# Intercept X: The World's Best Endpoint Protection

## Anti-ransomware



Unauthorised  
Encryption



## Deep Learning AI



Unknown  
Executables



## Anti-exploit



Exploits  
File-less Attacks

# Intercept X: The World's Best Endpoint Protection

## Anti-ransomware



Unauthorised  
Encryption



## Deep Learning AI



Unknown  
Executables



## Anti-exploit



Exploits  
File-less Attacks



## Foundational



Known  
Threats

Multiple layers of defense

# Intercept X: Securing Any Device, Any Platform



Desktop



Server



Mobile



Windows



macOS



Windows



Linux



Android / iOS / Chromebook

# Human-led Threat Hunting

48%

Already do human-led  
threat hunts

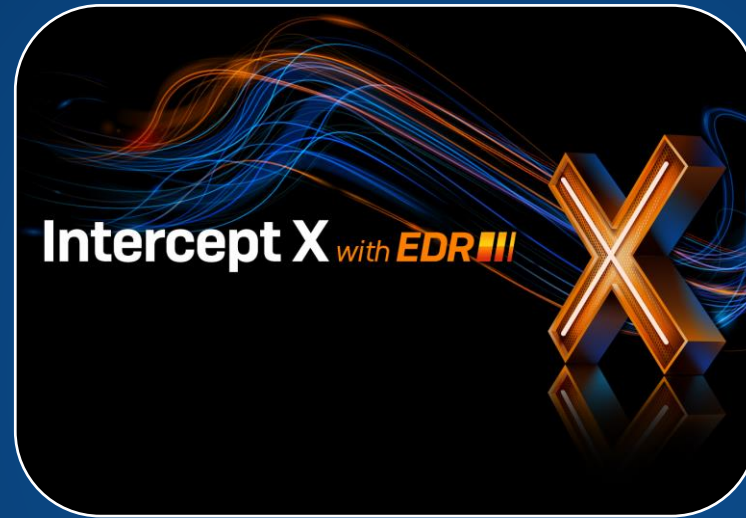
48%

Plan to incorporate human-led  
threat hunts



VansonBourne

# Intercept X: Endpoint Detection and Response (EDR)



IT admins and security analysts

Threat hunting

IT hygiene



# Intercept X: Endpoint Detection and Response (EDR)

## Investigate

*Powerful, out-of-the-box,  
customizable SQL queries*

Why is a machine running slowly?

Are there programs running on the machine  
that should be removed?

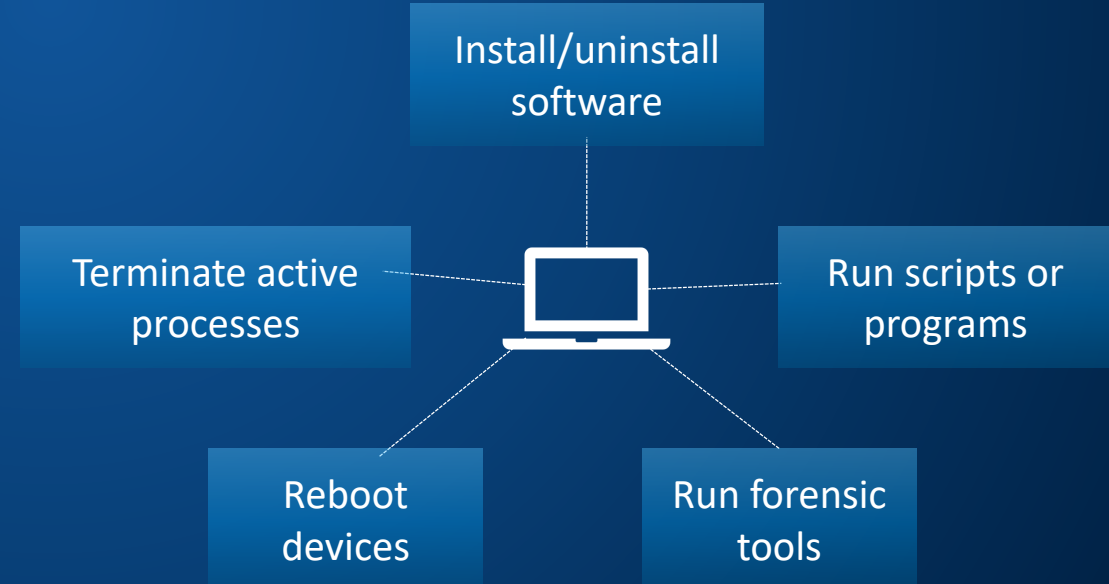
Which devices have unauthorized browser  
extensions?

Are processes trying to make a network  
connection on non-standard ports?

Are processes trying to make a network  
connection on non-standard ports?

## Respond

*Remotely access devices  
to remediate issues*





# Intercept X: Common EDR Use Cases



## Chrome Running Slowly

- Multiple user reports of chrome performance issues
- Identify unauthorized chrome extensions have been installed
- Remotely access devices to uninstall chrome extensions



## Software Queries:

- Compliance and licensing usage
- Check that sensitive files have been removed from devices
- Check haven't exceeded software license usage
- Remotely access devices to remove files or software



## Network Activity:

- Want to check for signs of attempted breaches
- Look for failed login attempts and active communication from PowerShell
- Remotely access devices to perform further analysis, isolate devices and terminate processes as needed



## Phishing Investigation

- Neutralize phishing attack
- Identify users that clicked on a suspect link and if they downloaded files
- Check if files interacted with anything else
- Isolate affected devices, remove downloaded files and terminate suspect processes

# Shortage of Skilled Staff Is a Major Challenge

81%

Their ability to find and retain skilled IT security professionals is a **major challenge** to their ability to deliver IT security

54%

“A significant challenge”

27%

“Our biggest challenge”



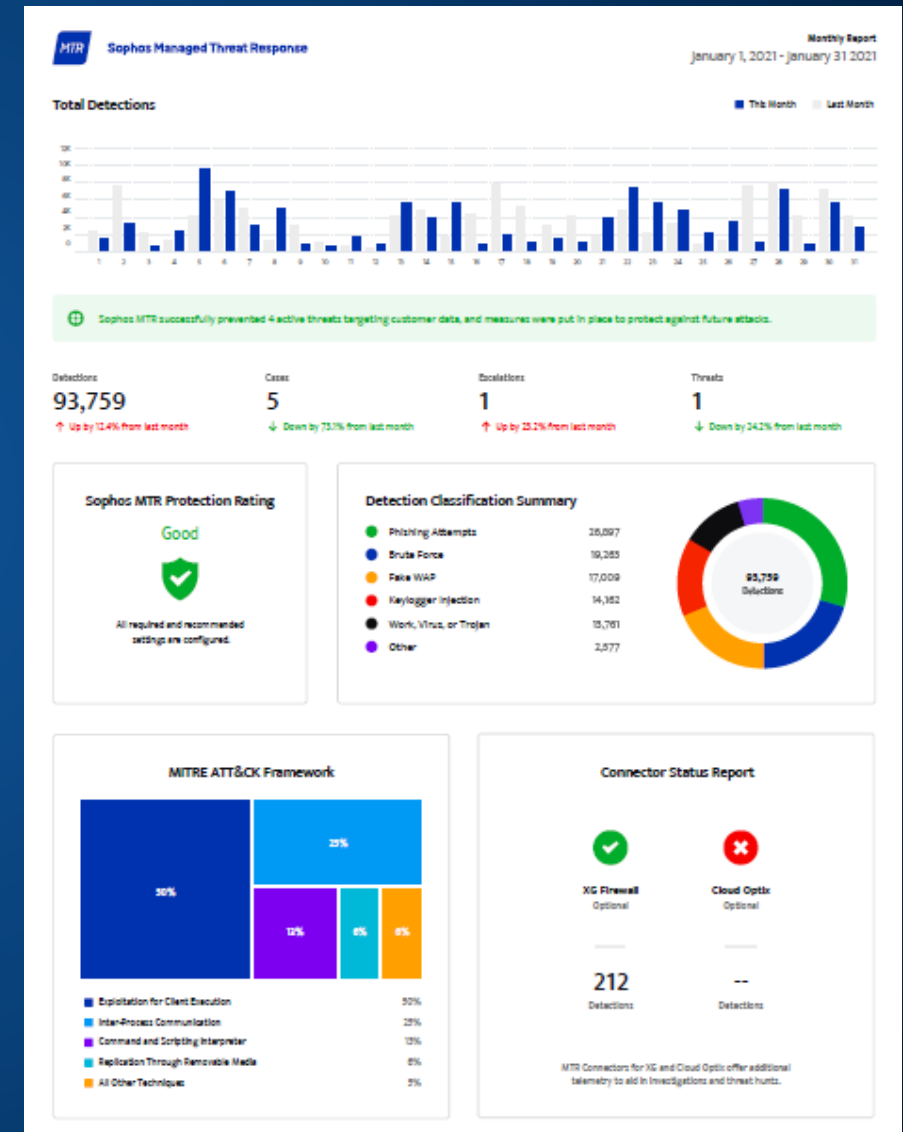
VansonBourne

# Sophos Managed Threat Response

- ✓ 24/7 threat hunting, detection and response
- ✓ Delivered by an elite team as a fully-managed service, leveraging the power of SophosLabs
- ✓ You control how and when incidents are escalated and what actions we take for you
- ✓ Full transparency: weekly and monthly reports

**Winner: Best Managed Security Services Offering**

Channel Partner Insights Innovation Awards 2020





The World's Best  
Endpoint Protection



EDR for Security Analysts  
*and* IT Administrators



Managed Detection &  
Response



# Sophos Mobile: Secure Unified Endpoint Management



## Stops threats



- Industry leading threat protection by Intercept X
- Secures iOS, Android Chrome OS, W10 & macOS devices

## Secures data



- Full device or container-only management
- Remotely deploy apps, policies and settings including email

## Cuts admin



- Flexible self-service portal
- Users can enroll devices, reset passwords and get help themselves

## ***SECURE DATA AND WORKLOADS***



SaaS/Public Cloud



On Premises



macOS



Windows



Linux

**PROTECT  
DATA AND  
WORKLOADS**

Detect, query and secure  
hybrid cloud workloads

Secure data on on-premises  
servers

**Intercept X for Server**

**Sophos Cloud Optix**

**SECURE THE  
NETWORK**

Secure cloud-based and on-  
premises networks

**Sophos Firewall**



# Protect Data and Workloads

## *Sophos Intercept X Advanced for Server*

- ✓ **Stop advanced threats** including ransomware, and server-specific malware
- ✓ **Lock down your servers.** Control what can run and get notification of unauthorized change attempts
- ✓ **Manage everything centrally** from one console, including mixed cloud and on-premises scenarios.

**SOPHOS**  
CENTRAL  
Admin

Server Protection

Back to Overview

ANALYZE

- Dashboard
- Logs & Reports

MANAGE PROTECTION

- Servers**
- Servers on AWS

CONFIGURE

- Policies
- Settings
- Protect Devices

MORE PRODUCTS

- Free Trials

Server Protection - Servers

Overview / Server Protection Dashboard / Servers

Help Rich Beckett

Sophos - Internal Public Cloud Central · Super Admin

Servers Azure VMs Server Groups

Search Show all servers All Health Status All Products Add Server Manage Endpoint Software Delete

Export to CSV

<input type="checkbox"/>	Name	IP	OS	Endpoint	Intercept X	Last Active	Group
<input type="checkbox"/>	⚠ EC2AMAZ-1U2FA3K	10.90.1.254	Windows Server 2019 Datacenter	✓	✓	Feb 16, 2021 10:36 AM	
<input type="checkbox"/>	⚠ ip-10-90-1-141	10.90.1.141	Amazon Linux 2 (Karoo)	✓	⊗	Feb 16, 2021 10:35 AM	
<input type="checkbox"/>	✅ instance-1	10.150.0.3	Debian GNU/Linux 10 (buster)	⊗	⊗	Feb 16, 2021 9:46 AM	
<input type="checkbox"/>	⚠ ip-10-15-100-33	10.15.100.33	Amazon Linux 2 (Karoo)	✓	⊗	Feb 16, 2021 9:37 AM	
<input type="checkbox"/>	⚠ ip-10-90-1-52	10.90.1.52	Amazon Linux release 2 (Karoo)	⊗	⊗	Sep 3, 2020 6:11 PM	
<input type="checkbox"/>	⚠ bplinuxagentgcp	10.150.0.2	Debian GNU/Linux 10 (buster)	✓	⊗	Jun 1, 2020 9:55 PM	

1 - 6 of 6 servers/ 0 selected

Last updated: Feb 16, 2021 11:34 AM

# Protect Data and Workloads

## *Sophos Intercept X Advanced for Server with EDR*

- ✓ **Catch evasive threats** - search for issues, and understand what happened
- ✓ **Automatically detect cloud workloads** and S3 buckets and databases
- ✓ **Detect insecure cloud deployments** with constant AI monitoring

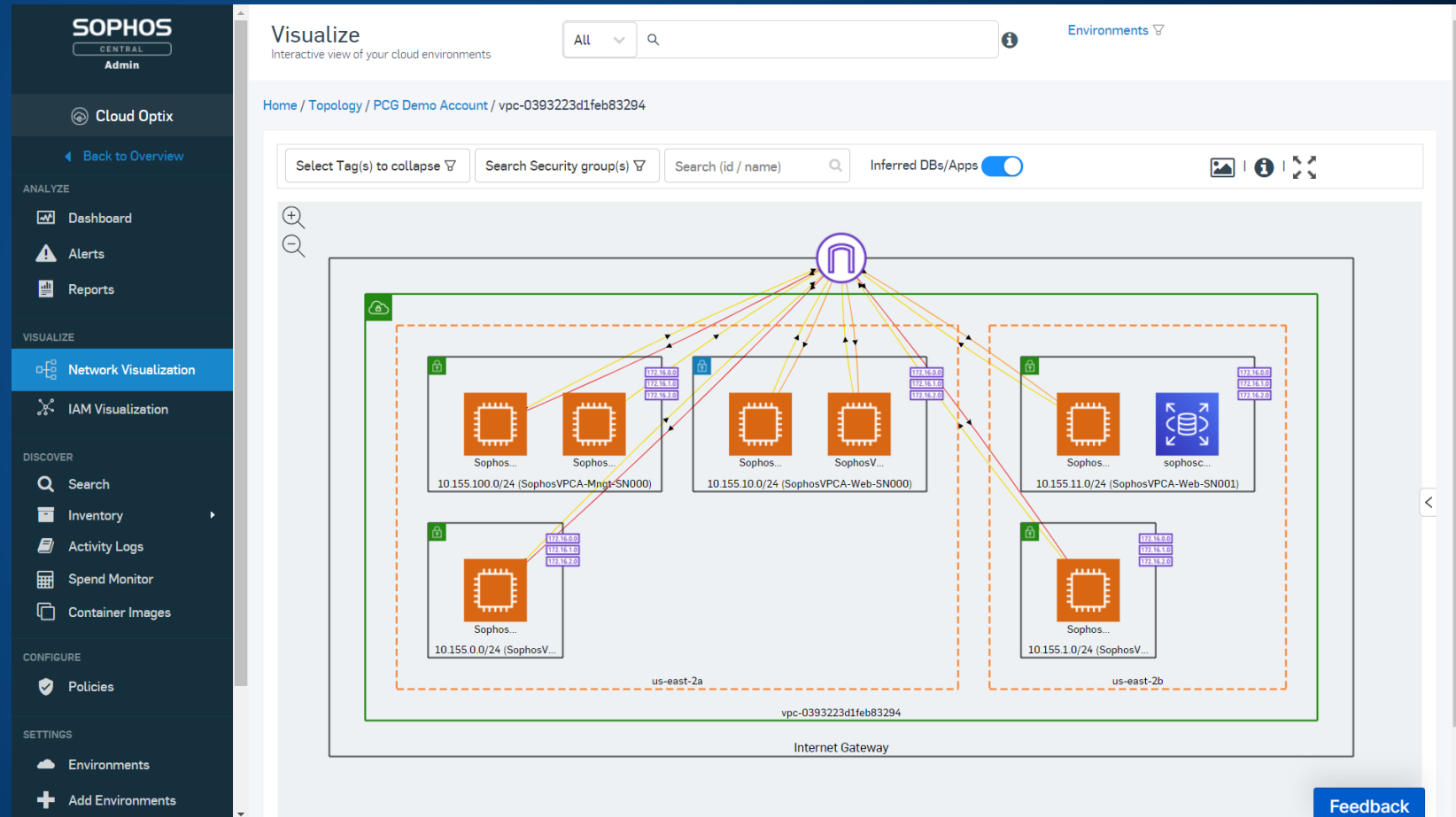
The screenshot displays the Sophos Threat Analysis Center - Live Discover interface. The left sidebar shows the navigation menu with options: Dashboard, Threat Cases, Live Discover (selected), Threat Searches, and Threat Indicators. The main content area is titled 'Threat Analysis Center - Live Discover' and includes a 'Device selector [3 Endpoints available]' section. Below this, there are tabs for 'Available devices' and 'Selected devices'. A table lists available devices with columns for Online status, Name, Type, OS, and Last user. The first device is 'EC2AMAZ-1U2FA3K', a Server running Windows Server 2019 Datacenter. The second device is 'instance-1', a Server running Debian GNU/Linux 10 (buster). The interface also features a 'Query' section with a dropdown menu set to 'Select One - 14 Categories, 104 Queries' and a 'Create new query' button. At the bottom, there are four summary cards: 'All queries [104] All available queries', 'Recent queries [1] Queries run recently', 'Anomalies [0] Unexpected activity or network connections', and 'ATT&CK [9] Queries based on attack tactics and techniques'.

Online status	Name	Type	OS	Last user
<input checked="" type="checkbox"/> Online	EC2AMAZ-1U2FA3K	Server	Windows Server 2019 Datacenter	
<input type="checkbox"/> Online	instance-1	Server	Debian GNU/Linux 10 (buster)	

# Protect Data and Workloads

## Sophos Cloud Optix

- ✓ Get asset and network traffic visibility for AWS, Azure, and Google Cloud
- ✓ Continually monitor for security risks, over-privileged IAM access, spend anomalies
- ✓ Get risk-based prioritization of security issues
- ✓ Optimize spend for AWS and Azure on a single screen.
- ✓ Identify Sophos Firewalls and workload protection on AWS



# See the Wood for the Trees

*“ With Sophos Cloud Optix, we significantly minimize alert fatigue. The powerful artificial intelligence built into Sophos Cloud Optix correlates the data and shows us what is truly meaningful and actionable ”*

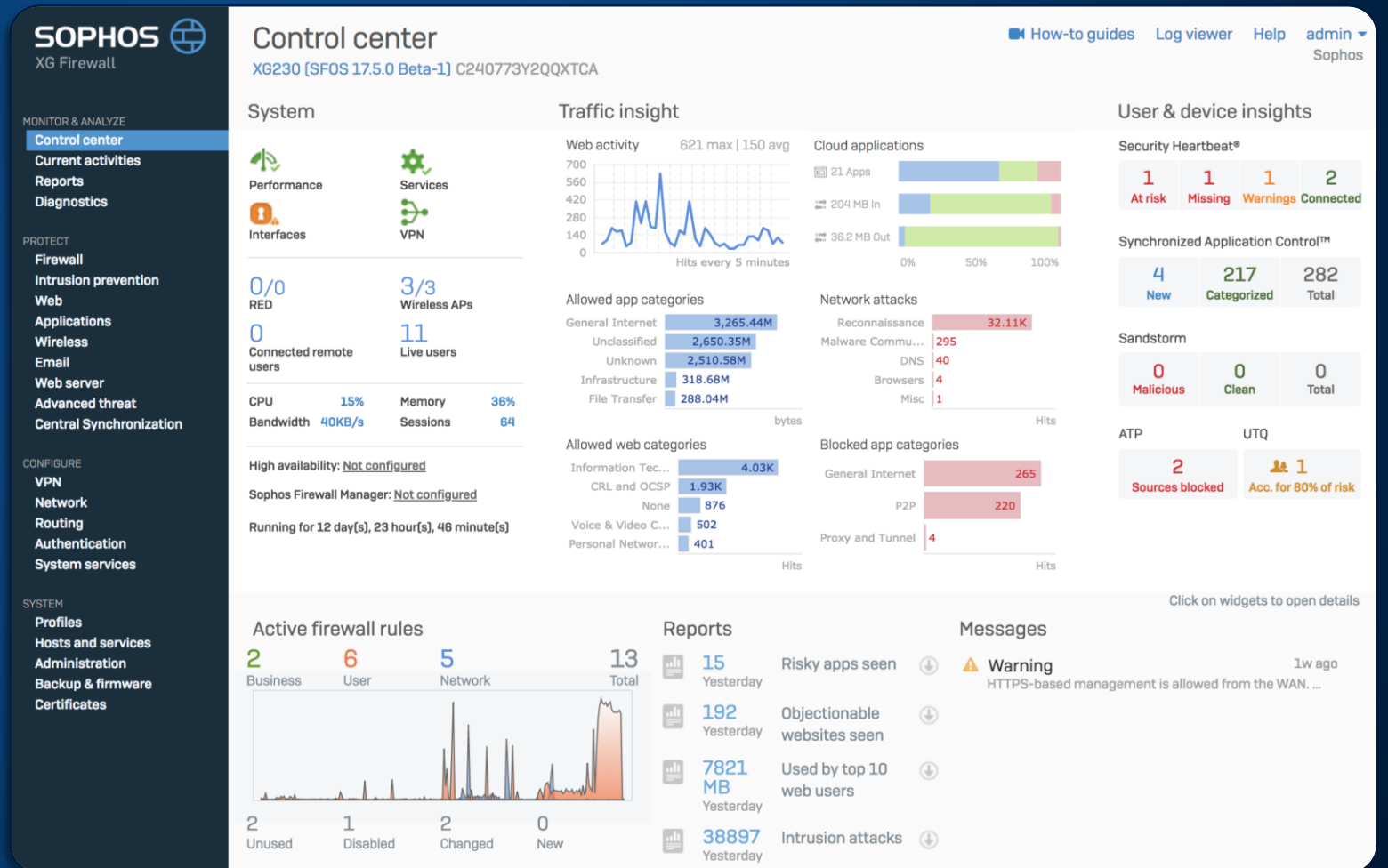
Ross McKerchar, CISO at Sophos

**SOPHOS**

# Secure the Network

## Sophos XG Firewall

- ✓ Multi-layered protection for network infrastructure
- ✓ Powerful all-in-one solution for IPS, ATP, remote user and site connectivity
- ✓ Cloud application visibility and shadow IT discovery
- ✓ Flexibility to run as standalone or HA solution



## ***CENTRAL MANAGEMENT***





# Sophos Central: Unifying Cybersecurity Platform

400,000  
users +

FREE



Sophos Central Security Platform



## SOFTWARE



Firewall



ZTNA



Endpoint



Server



Mobile



Cloud



Email



Encryption



WiFi



XDR

## HARDWARE



Firewall



RED

## SERVICES



MTR

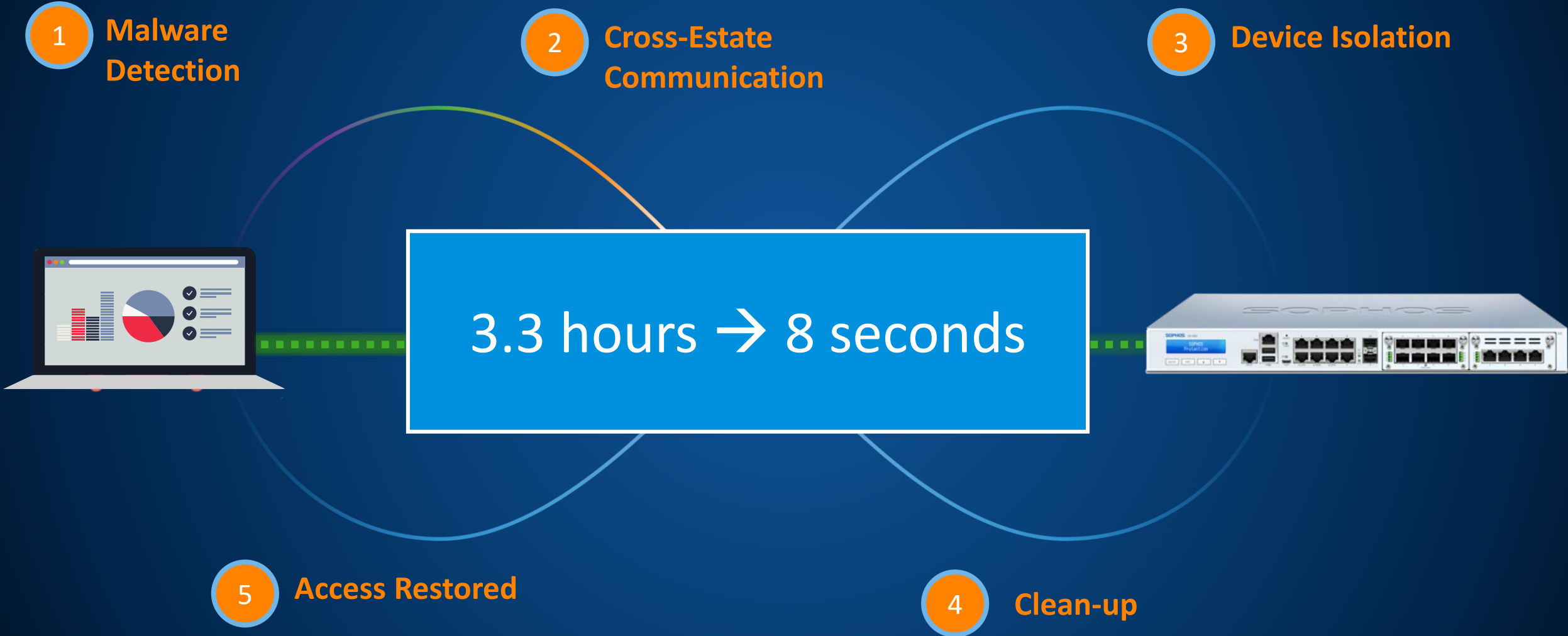
SOPHOS  
LABS

SOPHOS  
ARTIFICIAL INTELLIGENCE

SOPHOS  
SECURITY OPERATIONS



# Synchronized Security: Automated Response



# Slashing Admin Workload by Half

**Advanced  
Protection**



**Single Platform**



**Shared Intelligence**



**Automated  
Response**



**50%+**

reduction in admin  
workload

**85%**

reduction in security  
incidents

**To sum up...**

**SOPHOS**

# Securing The Anywhere Organization with Sophos

## *SECURE CONNECTIVITY*

Sophos Firewall  
VPN/RED

Sophos ZTNA

## *SECURE DEVICES*

Sophos Intercept  
X with EDR

Sophos MTR

Sophos Mobile

## *SECURE DATA AND WORKLOADS*

Sophos Intercept  
X for Server

Sophos Cloud  
Optix

Sophos Firewall

## *CENTRAL MANAGEMENT*

Sophos Central

End

**SOPHOS**  
Cybersecurity evolved.