Infographic

Zero Trust

Simplified

We're living in a new age where trust-but-verify security methods no longer work. Sophisticated cybercrime and broader attack surfaces have left CIOs wondering: How do I know who to trust?

Today's threats require a modern "zero trust" model.

The proliferation of remote workers and interconnected devices means

that traditional network perimeter defense methods aren't enough.

connection to the network. "Zero trust is an approach that moves you beyond 'trust everyone and deny specific

> no one and allow specific cases' security model." - Ron Temske, Vice President, Security and Network Solutions, Logicalis

What's Different with Zero Trust? **Traditional Approach:** Trust is established when first

Zero Trust Approach:

connecting to a network, then maintained throughout that connection.

Trust is established for every access request regardless of location inside or outside the network, and every user, device and access attempt is continuously validated.1

"Don't think of zero trust as getting rid of the perimeter, but rather as tightening security on the inside so that the network

keeping the attacker at bay." - Cisco² Why We Need Because cybercrime is the fastest growing crime in the United States.3 Zero Trust

> Time between businesses falling Global ransomware victim to a ransomware damage costs by 20215 attack by 20214

Implementing Zero Trust Protection and detection start with dividing security efforts into three important pillars: Workforce, Workloads and Workplace.²

Where Are the Breaches Coming From

90%

Successful breaches that stem from phishing emails^{6/7} SPAM

80%

Data breaches with a

connection to compromised

privileged credentials9 Zero Trust Doesn't Mean No Trust

The idea of "zero" trust is somewhat of a

misnomer because you must trust the

access to your network. That's where trustbut-verify still comes into play within the

to trusted devices · App-generated one-time codes that must be used within a certain period of time¹⁰ 2. Workloads and The Rise

authentication using:

"Let's face it...a sufficiently

successful outsider looks

exactly like an insider."

- Cisco²

You can establish identity verification in

a number of ways, including multi-factor

· Tokens such as USB keys or pin codes sent

Percentage of malware

delivered through email¹²

Gaining visibility into

user activity¹³

of Cloud Computing

in cloud data centers by 202111 **Biggest Application Security Challenges IT Teams Face**

Workloads and compute

instances that will be processed

"If you can't see it, you can't protect it." Endpoints and servers are obvious attack vectors, but today's attack

Minimizing exposure of

private apps to the internet¹³

- CISO Survey Respondent¹⁴

Trillion

Networked sensors in use in the next 14 years^{5/19}

surface area is increasing as connected Internet of Things (IoT) endpoints proliferate. These include

and multifunction printers (MFPs)."

- Ouocirca¹⁵

500M+

Number of wearable devices expected to be sold worldwide

by 2021^{5/17/18}

Time it takes to attach an

IoT device²¹

3 Steps to Zero Trust 1. Validate User Identity 2. Employ Network Segmentation 3. Examine Access Behaviors Data Shows Zero Trust

Enterprise IT security teams lack confidence in their ability to provide zero trust with their current technology¹³

74%

Federal government respondents say a zero-trust

trust, identity-centered policies.25

strategy is very important when expanding to the cloud²⁴ **48%**

47%

adopting a zero-trust policy ensures a stronger defense. There's no time to waste in implementing zero trust. Cybercriminals

42% Security decision-makers say zero trust is on their radar²³ ...But Is Still In the Early Stages 10% Piloting it²³ Actively using it in

71%

Security-focused IT decision

makers are aware of the zero-trust model²³

59% Federal IT executives say their agencies Government contractors and are moving away from traditional network industry say their organization is on perimeter defense tactics in favor of zero its way to adopting and identity-

focused security approach²⁴

are already sneaking in through the back door." - Cory Kramer, Principal Architect, Cybersecurity, Logicalis Logicalis + Cisco: Taking business transformation seriously

> existing investments, meet your needs and drive confidence. . 1 | 1 . 1 | 1 . **LOGICALIS** Architects of Change Partner

An award-winning, Cisco-certified partner, Logicalis is trusted to deliver the expertise you can

behind every wall. Segmenting can limit potential losses, and

³CNBC: <u>Protect Against the Fastest-Growing Crime: Cyber Attacks</u> "Cybercrime Magazine: <u>Top 5 Cybersecurity Facts, Figures, Predictions, And Statistics for 2019 To 2021</u> ⁵Cybercrime Magazine: <u>Cybercrime Damages \$6 Trillion By 2021</u> ⁶Verizon: 2019 Data Breach Investigations Report

What is Zero Trust? It's a new way of thinking about security that trusts no one and verifies everything. Zero Trust promotes productivity and remote access - within limits - using network segmentation to protect sensitive data from inside the network. And it's a model that offers CIOs better access-based control with insight into the users and devices requesting cases' to a more effective 'trust

perimeter isn't the only thing

Predicted annual cybercrime damages by 20215

1. The Workforce:

Percentage of breaches that involved access to a privileged account8

identities of parties to whom you grant zero-trust model.

Securing access to private apps distributed across data center and cloud environments¹³

200B

Number of IoT smart devices

expected to be in use this year¹⁶

59%

Organizations that have suffered at least one print-

related data loss²⁰

3. The Workplace: A Larger Attack Surface surface has grown well beyond the traditional boundaries. For example, what about "smart" devices and the Internet of Things (IoT)? "For many organizations, their cyber-attack both legacy and the new breed of smart printers

> Is Catching On... **78**% IT security teams that plan to embrace zero trust¹³

their organizations²³ What Is the Government Doing?

"Today's networks are like castles that may have already been infiltrated. A rock-solid perimeter with a moat is still important, but guards keeping a watchful eye are now needed throughout the castle's interior to ensure valuables remain safe

count on to transform your organization and enable business outcomes. We bring unrivaled knowledge, skills and experience to deliver IoT, cloud and security solutions that maximize

²Cisco: Zero Trust - Going Beyond the Perimeter ⁷Cybercrime Magazine: <u>Global Cybercrime Damages Predicted to Reach \$6 Trillion Annually By 2021</u> ⁸Centrify: <u>Privileged Access Management in the Modern Threatscape</u> ⁹Forrester: The Forrester Wave: Privileged Identity Management, Q4 2018 ¹¹Cisco: Cisco Global Cloud Index: Forecast and Methodology, 2016-2021 White Paper

¹Cisco: Zero Trust Security Website

Sources:

¹⁴Cisco: <u>Anticipating the Unknowns</u>

¹⁶Intel: <u>A Guide to the Internet of Things</u>

¹⁷Gartner: <u>Gartner Says Worldwide Wearable Device Sales to Grow 17 Percent in 2017</u>

¹⁸Cybercrime Magazine: Cybercrime Damages \$6 Trillion by 20201 with Official Annual Cybercrime Report

¹²IANS Research: <u>Insights: 92% of Malware is Delivered Through Email</u> ¹³Cybersecurity Insiders: <u>2019 Zero Trust Adoption Report</u> ¹⁵Quocirca: Quocirca Global Print Security Landscape, 2019

What we can do for your organization? Contact Logicalis to learn how we can help. Visit www.us.logicalis.com Call 866 456 4422