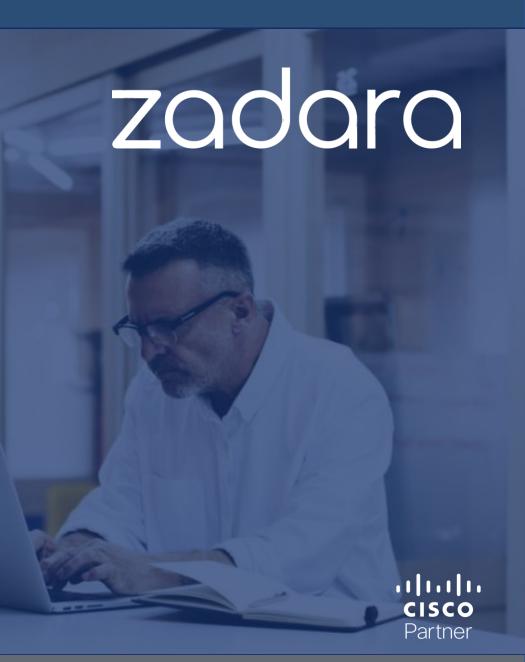


Linkedin Live Expert QA Session
December 16, 11:00am PST

Planning for Zero Trust in 2022



Session Structure



- Guest Introductions
- Zero Trust Background
- Trends, Current Events
- Zero Trust Readiness
- Planning Best Practices Discussion
- Frameworks, Tools
- Key Takeaways & Wrap Up

Introductions





Host / Mark Dallmeier:
Industry Veteran,
Researcher, CSO/CMO for
Various Cyber Risk, MSSPs,
MSPs.

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Expert / Noam Shendar:
Industry Veteran, Executive
VP Global Solution
Architecture





Expert / Don Maclean:
Chief Cybersecurity
Technologist, Forrester ZTX
Strategist





Expert / Chris McKewon
Industry Veteran, Founder
& CEO of Xceptional

Zero Trust Background: Why This Matters



- 1. Perimeter-Based Security is Ineffective in the Evolving Enterprise
- 2. Cloud Data Centers Require Shared Security Responsibility
- 3. Third-Party SaaS and PaaS Applications Can't Be Trusted Blindly
- 4. The Internet Network is an Unsecured Network
- 5. Everyone in the Expanding Workforce Shouldn't Have All-Access
- 6. You Cannot Verify the Security Status of All WFH Environments
- 7. BYOD is Not as Secure as Work Devices
- 8. Cyberattacks Are Increasing
- Advanced Persistent Threats (APTs) Are Becoming More Sophisticated
- 10. The Security Stakes Are Higher

"The future of cybersecurity is here, right now. And it is the zero trust security model. The perimeter-based, reactive methods that acted as the foundation of old, traditional security need to become relics of the past. Businesses and governments must be proactive and adopt zero trust now to confidently provide a cybersecure future to their customers, partners, employees, and citizens."

- Satyam Tyagi, Senior Director of Product Management, ColorTokens

Cybersecurity Trends: Growing Tsunami of Attacks

- Microsoft, National Security Institute, Security Magazine 2021

Global threat activity

Countries or regions with the most malware encounters in the last 30 days

a ransomware
attack will occur
every 11 seconds in
2021. The number of
ransomware attacks
nearly doubled in
the first half of 2021."

"Every 39 seconds, there is a new attack somewhere on the Web. That is about 2,244 attacks occurring on the internet daily in 2021."

Wor

Select a region ~

"The number of data breaches through September 2021 has exceeded the total number of events in full-year 2020 by 17%."

"There were 1,767 reported breaches in the first six months of 2021, exposing a total of 18.8 billion records. Some industries have experienced 200% - 3000% growth in cyber incidents over the last 36 months."

Xceptional.com https://www.microsoft.com/en-us/wdsi/threats

What Is Zero Trust - Don & Noam



Don:

- A mindset change
- A holistic approach to security
- A means to an end

Noam:

 Making as few assumptions as practical about limitation of access (like a house, there are many ways in)

Problems that Zero Trust Solves

- Disappearing perimeter no more "moat and castle"
- Growing attack surface
- Inevitable intrusions
- Long dwell times/Lateral movement Bad actors stick around They'll find everything eventually





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What Is Zero Trust - Chris & Mark



Chris:

- A hill that every organization must climb
- Flips the script from access/user centric to security centric
- Identification, Classification and protection of data/information
- An approach that needs proper continual care and feeding

Mark:

- An opportunity to proactively remove risk from the business
- A giant leap forward in terms of improving cyber hygiene and addressing privacy and compliance requirements





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Drivers for Cloud & Zero Trust



BUSINESS SITUATION	IT USE CASES	CYBERSECURITY & COMPLIANCE REALITIES		
Growth, geographic expansion resiliency.	Repatriation Migrating Data between, Clouds, DCs and Co-Los	Hybrid and distributed workforce. BYOD, home office networks, shared office networks. BEC, Phishing, Ransomware, Data Privacy, CCPA, NY Reg, Other State, Fed, Industry Regulations.		
Control or contain spending.	CAPEX → OPEX at the Edge How do we model Compute & Storage as a Service	Visibility into risk, cyber and compliance costs. Consistency of IT services, network-application-data access. 0 IT system and application downtime, disruption. No fines, revenue loss due to lack of regulatory compliance.		
Enhance employee and customer engagement, employee productivity.	Edge & Latency Needing cloud services closer to the source of data	Automated, consistent, secured access to IT systems, applications, and data – when they need it. Expect data privacy, protection, monitoring is in place.		
Rapid response to market demands and needs.	Utilize Local partnerships, Knowledge and Infrastructure for Production, DR & Backup.	Need a trusted workforce, trusted workplace, and trusted workloads to enable resiliency, flexibility, and to ensure business continuity.		
Architect IT systems and services to support business goals, objectives.	Technology Refresh Needing to keep IT resources current at a reduced costs	Need to address technical debt, remove vulnerable systems and proactively reduce risks while architecting for the future. Need to address growing cyber threats and risks.		

Re-Architecting IT for Zero Trust





Traditional Approach:

Fortify and armor the front door

There's One Problem:

Once you're in, the place is yours



Zero-Trust Approach:

Many doors, reasonable security

Advantage:

Breach a door, the rest are locked

Examples of Zero Trust at Zadara



Segregation of Networks:

- There is no one big Zadara cloud; rather, Zadara comprises 100s of clouds that authenticate separately
- Even within a cloud Zadara has a separate VLAN for each tenant and a separate a VPC for each compute client
- Each tenant instance and each management/monitoring instance keep its own RBAC system and users/groups

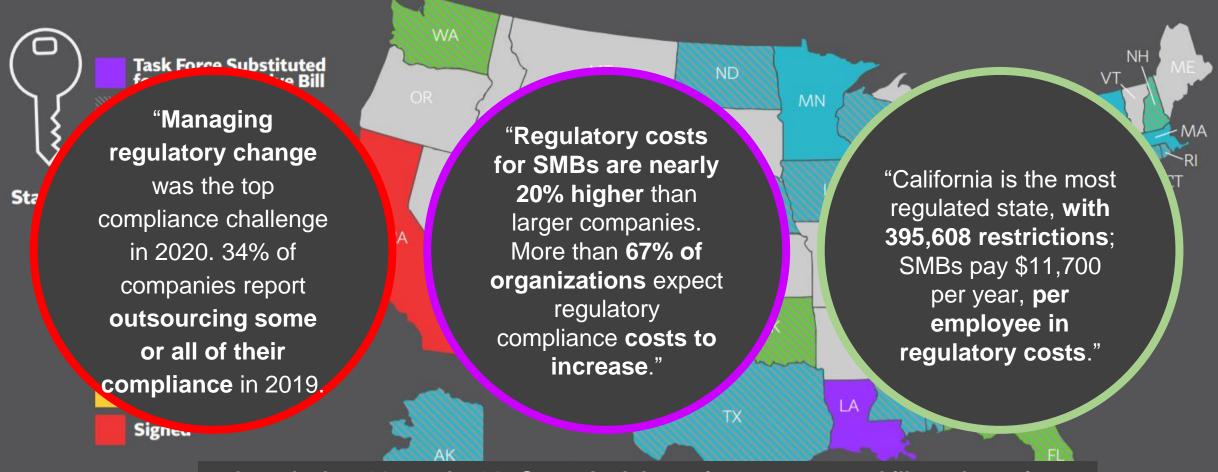


Segregation of Software:

 Zadara uses about 50 different SaaS systems, with no SSO or central directory. Each application requires its own authentication and authorization

Compliance Drivers: Growing Costs, Laws, Regulations

- iapp, Thomson Reuters 2021



Last updated: 9/16/2021

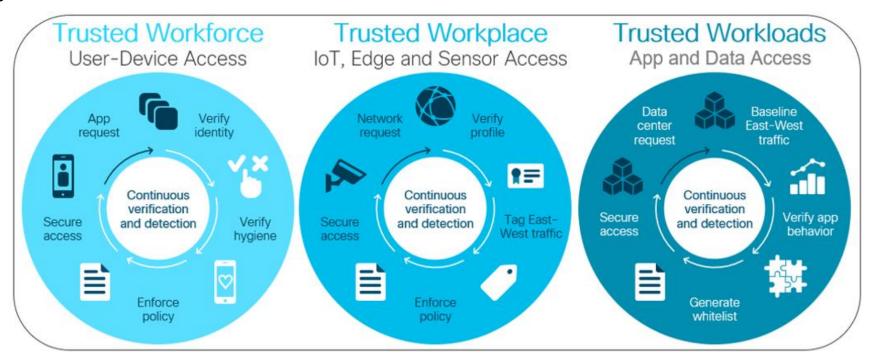
Over the last 24 months 34+ States had data privacy statutes or bills under review. With growing enforcement actions around HIPAA and GDPR we expect more States to pass similar data privacy laws as within California, Colorado and Virginia.



Zero Trust Readiness (Cisco)



- **Do you have a Trusted Workforce (User and Device) Access process?** Does it drive users to connect to devices and applications securely? Can you verify the user, the security hygiene, and enforce security and access policies dynamically?
- **Do you have a Trusted Workplace (IoT, Edge and Sensor) Access process?** Does it drive users to connect to networks securely? Can you verify the profile, tag the east-west service, and enforce security and access policies dynamically?
- **Do you have a Trusted Workloads (Apps and Data) Access process?** Does it drive users to connect to data centers and applications securely? Can you track east-west traffic, verify application behavior, and generate and enforce a whitelist dynamically?



Panel Discussion & QA

How Should Orgs Approach Zero Trust Pre-Planning?

How Can Orgs
Accelerate
Readiness?

What Are Best Practices for Zero Trust Planning?

Approach?

How are other organizations approaching Zero Trust Planning and what are the key frameworks being used and activities being driven?

Prep?

Are there approaches or methods that are being used by other companies to accelerate Zero Trust readiness?

Implementation?

How can organizations accelerate through the implementation phase and reduce the risk, cost associated with deploying a Zero Trust model?

Zero Trust Frameworks, Resources



NIST SP 800-207:

https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-207.pdf

Department of Defense Zero Trust Architecture:

https://dodcio.defense.gov/Portals/0/Documents/Library/(U)ZT_RA_v1.1(U)_Mar21.pdf#

NSA Zero Trust Architecture

https://media.defense.gov/2021/Feb/25/2002588479/-1/-1/0/CSI EMBRACING ZT SECURITY MODEL UOO115131-21.PDF

National Cybersecurity Center of Excellence:

https://www.nccoe.nist.gov/projects/implementing-zero-trust-architecture

Zero Trust NIST Architecture Blogs:

https://blogs.cisco.com/security/an-overview-of-zero-trust-architecture-according-to-nist

https://blogs.cisco.com/government/zero-trust-cybersecurity-for-government-part-one

Cisco Zero Trust Fundamentals and Pillars:

https://duo.com/assets/ebooks/zero-trust-going-beyond-the-perimeter.pdf

Cisco Zero Trust Framework:

https://www.cisco.com/c/en/us/products/security/zero-trust.html

Takeaways, Wrap Up





Host / Mark Dallmeier:
Industry Veteran,
Researcher, CSO/CMO for
Various Cyber Risk, MSSPs,
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Technologist, Forrester ZTX
Strategist





Expert / Chris McKewon
Industry Veteran, Founder
& CEO of Xceptional

Comments, Key Takeaways: Noam, Don



Noam:

- Zero-trust starts with people
- When doing asset discovery/inventory include the cloud
- Many solid doors are better than 1 heavy door

Don:

- People are critical to success
- Leverage all frameworks
- Its about being secure; not Zero-Trust compliant



Takeaways & Wrap Up: Chris & Mark

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Chris:

- Communicate, communicate, and then communicate some more
- Don't forget training, end users, administrators and security officers/CISOs
- Automate compliance to the highest extent possible
- Avoid the propensity to use too many tools or create confusion or noise

Mark:

 Leverage industry experts, manufacturers, 3rd party solution providers to accelerate planning and deployment





Cisco Zero-Trust Technology Portfolio



Enabling Basic to Advanced Cyber Hygiene (Supports industry regulations)

		Basi	Inter	Goo	Proa	Adva
Product	Capability	1	2	3	4	5
ESA/WSA	Advanced threat protection capabilities to detect, block and remediate threats					
Umbrella	Advanced defense and intelligence against threats					
Duo	Establish user trust w/multi-factor auth, SSO for SaaS and device visibility					
Cyber Vision	Threat detection/intelligence for cyber threats in the industrial networks					
AnyConnect	Remote access to network with visibility and posture compliance via agent					
SDA/ISE/TrustSec	Wired, wireless, VPN access policy with network segmentation					
Tetration	Threat detection/intelligence for threats in the private/hybrid clouds					
AMP/Threat Grid	Threat detection/intelligence with host visibility and remediation					
Stealthwatch	Threat detection with internal network and cloud visibility via flow sensors					
Threat Response	Threat visibility and rapid containment with intel-driven incident response					
Firepower	Network access, segmentation and threat detection with in-line insertions					

Cisco Zero-Trust Thought Leader



Forrester Wave Report 2020

https://reprints2.forrester.com/#/assets/2/154/RES157494/report

"Cisco pushes the Zero Trust envelope the right way."

"The Duo Security offering has been fully integrated into the Zero Trust-focused Cisco Zero Trust portfolio approach for the Workforce, Workplace, and Workload (WWW). While the past performance of its firewalls and network security solutions remain powering security operations in the background, the WWW approach based on ZTX is front and center in the vendor's platform, offering integrated analytics and automated decision making and deploying segmentation controls across the entire infrastructure."

"Organizations that have a well-constructed security apparatus in place and are moving to a more mobile workforce should consider bolstering those capabilities with the ease-of-use Cisco now provides."





Cisco Zero-Trust Workshops

https://web.cvent.com/event/84f04d16-1486-4555-aeca-43df74102d3c/websitePage:645d57e4-75eb-4769-b2c0-f201a0bfc6ce

Join us for a virtual hands-on workshop to learn how to simplify and accelerate your zero-trust adoption and take your security expertise to new heights.

In this workshop, you will discover how to implement zero-trust to deliver results, integrate zero-trust into your daily workflow, uncover best practices you can use right away, and network with your peers to share strategies, techniques and outcomes.

Engage in a hands-on lab exploring zero-trust use cases, including establishing trust of users & devices, adaptive policies, zero-trust network access, modern application access and Secure Access Service Edge. Discover how to implement technology to accelerate zero-trust adoption.

Date	Start & End Time	Country	Registration Link
12/2/2021	10am-2pm CST	USA	Register Here
12/16/2021	10am-2pm CST	USA	Register Here
1/19/2022	10am-2pm CET	UK	Register Here
1/20/2022	10am-2pm CST	USA	Register Here
2/3/2022	10am-2pm CST	USA	Register Here
2/17/2022	10am-2pm CST	USA	Register Here
3/3/2022	10am-2pm CST	USA	<u>Register Here</u>
3/17/2022	10am-2pm CST	USA	<u>Register Here</u>
4/7/2022	10am-2pm CST	USA	<u>Register Here</u>

How We Can Help = The Portfolio



IT Network & System Architecture, Design, Implementation, Run, Operate, Maintain



- Remote and Onsite Managed Services Support
- 24 x 7 Monitoring and Management of Desktop, Network, Phones, and Applications
- Multiple Support Levels to Fit Your Business, Budget
- Virtual CIO: Quarterly Technology Reviews and Reporting. Includes Strategic IT Planning, Updates to Plans, Standards, Maintenance, and Support Levels



- Design, Deployment, and Management of Telepresence and Video Solutions
- Voice, Video, and Webbased Conferencing
- Real Time
 Communications on all
 Devices
- Cloud, Onsite, and Hybrid Communications Solutions



- Strategic enterprise-class
 Data Center and Hosting
 Services. IT Software,
 Services, Applications,
 Email, and Network
 Solutions (Hosting, IaaS)
- Storage Solutions
- Backup & Recovery Solutions (BaaS)
- Compliance as a Service Solutions (CaaS)
- Virtualization



- Networking Solutions
 Driving Technology and
 Business Operations
- Routers/Switches
- Wireless Mobility Solutions
- Security Solutions and Security as a Service
- WAN Optimization

QA, Wrap Up & Next Steps



- QA
- Offer: Zero Trust Readiness Assessment
 - Network vulnerability scan
 - Technology review and evaluation
 - Controls review
 - Summary and recommendations report

info@xceptional.com



Linkedin Live Expert QA Session
January 13, 2022 / 11:00am PST

Leveraging Cloud to Accelerate Business Growth in 2022

Register Today!

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Access more panels, webinars & research:

https://resources.xcepti onal.com/webinars



