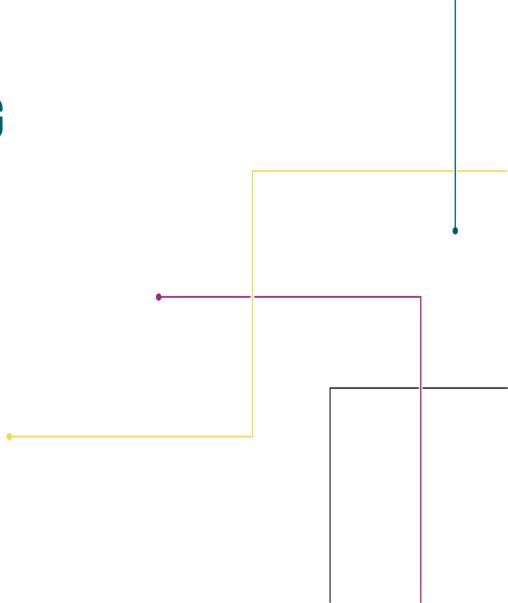


ISOAG MEETING

FEB. 3

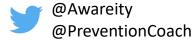


FEB ISOAG AGENDA **RICK SHAW, AWAREITY** MICHAEL D'AREZZO, E PLUS TECHNOLOGIES **DENNIS MOREAU, VMARE** TINA GAINES, VITA UPCOMING EVENTS **ADJOURNED**

HACKERS: INCREASING ATTACKS AND TARGETING GOVERNMENT



Rick Shaw



Quick Background

- 20+ years helping clients prevent incidents and liabilities as well as analyzing data and lessons learned/risk management
- Started CorpNet Security in 1998 (white-hat hacking)
- Awareity won Grace Hopper Award from Virginia
- 20+ years researching post-incident reports and WHY
- Specializing in HOW hackers hack and HOW to prevent soaring numbers of breaches and costly consequences



Questions to Get Started?

- Can you afford costs of being hacked?
- Can you afford consequences of being hacked?
- Why are so many information breaches happening?
- Why are so many information breaches successful?
- What do post-incident reports reveal about breaches?
- How do you prevent information breaches?
- How do you eliminate your gaps?



Cybersecurity

Hackers Have Infiltrated Many of Washington State's Agencies

Why Apple Security Alert Means Users Must Update iPhones, iPads With iOS 14.4

Three million users installed 28 malicious Chrome or Edge extensions

Phishing Attacks Soar 220% During COVID-19 Peak as Cybercriminal Opportunism Intensifies



Why Are Breaches Happening?

- Hackers exploit unpatched software, firmware, and people
- Information has value (sell it, share it, intelligence, etc.)
- Ransomware costs are expected to be \$20 Billion in 2021, up from around \$5 Billion in 2017



Exploiting Unpatched Assets

- System Software/Firmware
- Firewalls
- Network and WiFi Devices
- Anti-Virus/Anti-Malware
- Mobile Devices
- Patch Management Software
- Other software, firmware, hardware, etc.



Windows Update



Google Chrome



Current threats



Google Chrome is up to date Version 88.0.4324.104 (Official Build) (64-bit) No current threats.

Last scan: 1/27/2021 2:16 PM (quick scan) 0 threats found.

Scan lasted 26 seconds 34758 files scanned.

Check for updates

Intrusion Detection Systems Explained: 13 Best IDS Software Tools Reviewed



Top 11 BEST Patch Management Software Tools [UPDATED 2021 LIST]



Exploiting Unpatched Assets (People)

What about your **PEOPLE** assets?

How are you patching your **PEOPLE**?

How are you checking latest version on **PEOPLE**?

What "tools" do you use for **PEOPLE**?



Exploiting Unpatched Assets (People)

- Hackers Know YOUR People Are YOUR GAPS To YOUR "Data"
- Phishing attacks (emails)
- Social Engineering (phone calls)
- Remote Worker Issues (emails, phone calls, etc.)
- Text Scams (mobile devices, smishing, etc.)
- Social Media (deepfake videos and others)
- New attack methods are continuously being created



Exploiting Unpatched Assets (People)

- Hackers Know YOUR People Are YOUR GAPS To YOUR "Data"
- Phishing attacks (emails)
- Social Engineering (phone calls)
- Remote Worker Issues (emails, phone calls, etc.)
- Text Scams (mobile devices, smishing, etc.)
- Social Media (deepfake videos and others)
- Hackers are exploiting "unpatched people"



- Gaps in User Awareness
- Gaps in Ongoing Awareness
- Gaps in Changing Threat Awareness
- Gaps in Lessons Learned Awareness
- Gaps in Situational Awareness
- Gaps in Accountability of Awareness
- Other GAPS too...





- Policy GAPS
- Best Practice GAPS
- Standards GAPS
- Compliance GAPS
- Technology GAPS
- Opinion GAPS
- GAPS, GAPS, GAPS...



- Policy GAPS
- Best Practice GAPS
- Standards GAPS
- Compliance GAPS
- Technology GAPS
- Opinion GAPS
- Global GAPIDEMIC









Your password will expire today You can keep using current details

Keep Your Password

Awareity Service!



From: Support <<u>noreply@awareity.com</u>>
Sent: Thursday, October 29, 2020 4:21 AM
To: Rick Shaw <<u>rick.shaw@awareity.com</u>>

Subject: PHISHING EXAMPLE - (if you need it) Email Quarantine

Awareity has prevented the delivery of 39 new emails to your inbox (<u>rick@awareity.com</u>) as of **Thursday**, **October 29**, **2020** because it identified these messages as spam. You can review these here and choose what happens to them. You can also get more information about quarantined messages by going to the Quarantine page in the Security and Compliance Center. You'll need to provide your work or school account to log in.

View Emails

Email Quarantine



Zoom

Hi rick.shaw,

You received a video conferencing meeting:

Topic rick.shaw

Meeting ID 874 7326 3120

Jan 29, 2021 07:00 AM Eastern Time Time

REVIEW Meeting

Thank you for choosing Zoom. -The Zoom Team

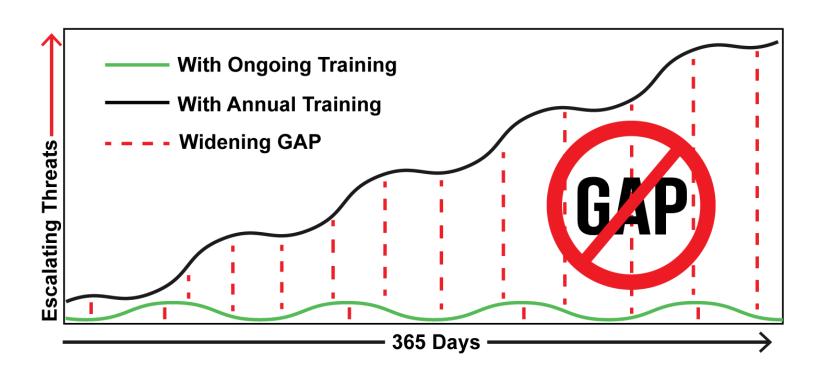


Going Back to the Office	Your Password Is Expiring	Social Media Account Issues
Microsoft Invoice	Bank Account Hold	Coupon Scams
Organization Invoice	Credit Card Usage	Free Giveaways
Vendor Invoice	Olympics	Porn Threats
Emails in Quarantine	Super Bowl	Amazon Balance
Election Info	Super Bowl Commercials	Shipping/Delivery Notice
Covid-19 Health Info	World Cup	Celebrity News
COVID-19 Vaccine Info	Sporting Events	Politics
Pandemic Info	Hurricanes	Riots/Violence

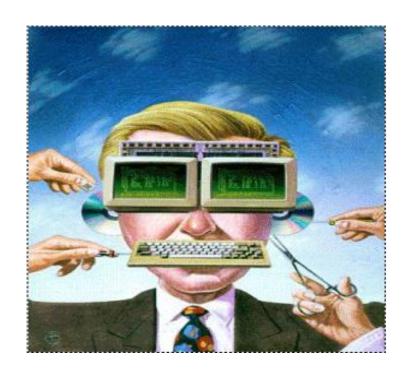
New Job Info	Earthquakes	Police Reform
Voicemail Info	Volcanos	Fake Charities
Your Account Is Expiring	Tragedies (as they occur)	Deep Fake Videos
Investment Scams	Housing Scams	Overdraft Notice Scam
Lottery Scams	IRS Scams	Student Loan Scams
Ticket Scams	Negative Public Records	Business Email Compromise
Census Scams	Court Appearance Scam	ID Theft
Fake Websites	Infected Attachments	Many Others





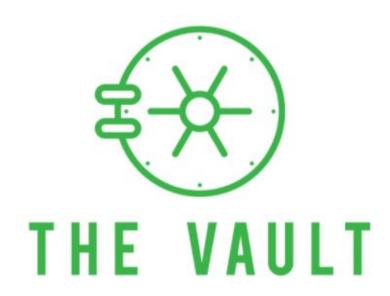


Solution: Patching People





Ongoing Awareness & Accountability Vault (AAV)





Solution: Patching People (The Vault)

- Ongoing Awareness (situational, organizational, etc.)
- Updated Policies
- Updated Alerts
- Updated Attacks/Lessons Learned
- Updated based on GAP Assessments
- Ongoing "BOLO/Zero Day patches" for people
- Tracked/Measured Awareness at Individual Level





Awareity Admin

Cert Due On: 03-07-2018

Is Every Square Now a Checkmark?

All ✓ 's Are Needed for Certification.

✓ Module Instructions

☐ Information Risks☐ Internet Security

■E-mail Security

■ Email Awareness

■ Email Risks

Phishing Attacks

■ Masquerading and Email Best Practices

☐ Human Factor Risks☐ (Organization) Vault

Powered by Awareity

What Are the Most Common Phishing Attacks?

VIDEO LESSON:

Please click play on the video below to view and listen to the lesson content.



Email Security:

Common Phishing Scams







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□Internet Security
□E-mail Security
□Human Factor Risks
□(Organization) Vault

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(Organization) Awareness and Accountability Vault

Click on the title of the Policy/Document to review

✓ = Reviewed Policy/Document □ = Policy/Document to be Reviewed

Group by: Sort by:

□ Document Groups ✓ Title ✓

ALER	TS				=
		Document Title	Description	Eff. Date	Cert. Status
		AAV Alerts	2018 Q1	3/1/2018	Required Annually
		Bad Rabbit Ransomware	Release 10/27/2017		Required
		COVID-19 Cyber Crime ALERT	Review examples of COVID-19 Cyber Crimes	3/30/2020	Required
✓		COVID-19 Scams ALERT	Review examples of COVID-19 Scams	3/30/2020	Required
		COVID-19 Teleworking ALERT	Resources for employees now teleworking.	3/30/2020	Required
✓	'	Hackers Spread Ransomware V2	NSA Tools Used to Hack	5/12/2017	Required
		Netfix Hacked	Risks with Third Party Service Providers	5/12/2017	Required Annually
		New App allows hackers easy access to phone	what employees need to know	12/19/2014	Required Annually
	ı	New Assessment DUE Next Week!	Please download the attached PDF, fill in active fields to complete survey, save as PDF and upload to the Survey IR in TIPS.	1/21/2015	Required Annually
		News alert	example	11/8/2017	Not Required
✓	'	Phishing ALERT	Phishing Attempt - 03/30/2020	3/30/2020	Required

Emergency Preparedness/Emergency Response				
	Document Title	Description	Eff. Date	Cert. Status
	Active Shooter	What to do if you find yourself in an active shooter situation	12/19/2014	Required Annually
	Bomb Threat	Please refer to the Bomb Threat Checklist (attached) for guidance on the information to be gathered.	12/19/2014	Required Annually
	Earthquake	Drop. Cover. Hold on. More information attached.		Required Annually
	Fire		12/19/2014	Required Annually
	Hazardous Materials Incident	Procedures will depend on material and amount. Review the attached for proper procedures for any situation involving hazardous materials.		Required Annually
	Power Outage	Response information	12/19/2014	Required Annually

Empl	Employee Handbook					
		Document Title	Description	Eff. Date	Cert. Status	
		Employee Benefits and Programs 2020	What employee benefits and programs are available	12/19/2014	Required	
			Complaint Process	2/3/2012	Required Annually	
		Work Life Balance â€" Policies & Programs	How we can help with the Work Life Balance	12/19/2014	Required	
		Workpers Compensation Policy	Workers Comp	2/3/2012	Required Annually	

Employee	Employee Safety/OSHA					
	Document Title	Description	Eff. Date	Cert. Status		
	Emergency Call List	Call List	2/3/2012	Required Annually		
	Inspection Guidelines	Inspection Guidelines	2/3/2012	Required		
	NIOSH Risk Factors	NIOSH Risk Factors	2/3/2012	Required Annually		
	Workplace Violence Policy v3	Workplace Violence	2/3/2012	Required Annually		

Employee Tr	Employee Training a				
	Document Title	Description	Eff. Date	Cert. Status	
			12/26/2014		
	Employee Onboarding	Mission Statement, Corporate Overview and Employee Culture Training for All New Employees	12/26/2014	Required	
		and starr member	12/19/2014	Required Annually	
	HIPAA Compliance Training	Proper HIPAA procedures and handling of health information		Required Annually	
	OSHA Training	OSHA Training		Required Annually	
	PCI â€"DSS Training	Proper PCI †DSS procedures and handling of payment information	12/19/2014	Required Annually	





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☐ E-mail Security
☐ Human Factor Risks
☐ (Organization) Vault

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Click on the title of the Policy/Document to review

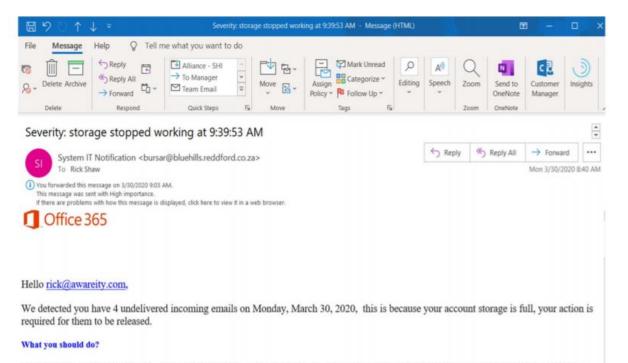
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Group by:	Sort by:	
Document Groups ∨	Title	~

,	*ALERTS	***			=
		Document Title	Description	Eff. Date	Cert. Status
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		Bad Rabbit Ransomware	Release 10/27/2017	10/31/2017	Required
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	~	COVID-19 Scams ALERT	Review examples of COVID-19 Scams	3/30/2020	Required
		•	Resources for employees now teleworking.	3/30/2020	Required
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		Netfix Hacked	Risks with Third Party Service Providers		Required Annually
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		News alert	example	11/8/2017	Not Required
		Phishing ALERT	Phishing Attempt - 02/03/2021	2/3/2021	Required

Emergeno	y Preparedness/Emergency Response			+
	Document Title	Description	Eff. Date	Cert. Status
	Active Shooter		12/19/2014	Required Annually
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	Hazardous Materials Incident	Procedures will depend on material and amount. Review the attached for proper procedures for any situation involving hazardous materials.	12/19/2014	Required Annually
	Power Outage	Response information	12/19/2014	Required Annually





People trying to contact you will receive a message to this effect except you take action below to your portal to retrieve messages and choose what happens to them.

Restore Messages

awareity.com support for rick

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Information Risks

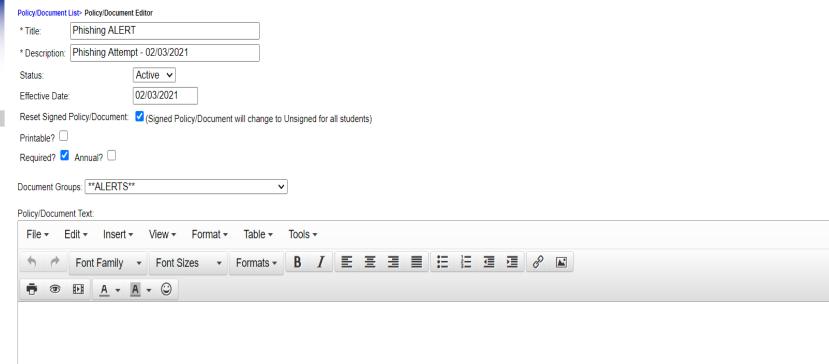
Internet Security

E-mail Security

Human Factor Risks

(Organization) Vault

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Policy/Document List> Policy/Document Editor> Department Assignment

In order to check or uncheck the Departments listed below, you will need to check or uncheck "All Departments."

Select	Dept/Group	Description
✓	All Dept/Groups	
✓	Administration	Administraton
✓	Basic User	
✓	Crisis Management	Crisis Management Personnel
✓	Customer Service	Customer Service
✓	Employee Assistance Programs	Employee Assistance Programs (EAP) Personnel
✓	Human Resources	Human Resources Personnel
~	IT	IT
~	Legal Counsel	Legal Counsel
~	Nursing	Nursing
~	Occupational Safety and Health	Occupational Safety and Health Personnel
~	Onboarding	
✓	Public Relations/Corporate Communications	Public Relations/Corporate Communications
~	Risk Management	Risk Management Personnel
✓	Security	Security Personnel
~	Top Management	Top Management
✓	Union Leaders	Union Leaders

NEXT

BACK

ADMIN



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✓ Module Instructions
☐ Information Risks
☐ Internet Security
☐ E-mail Security
☐ Human Factor Risks

☐ (Organization) Vault

Powered by Awareity

Title: Phishing ALERT

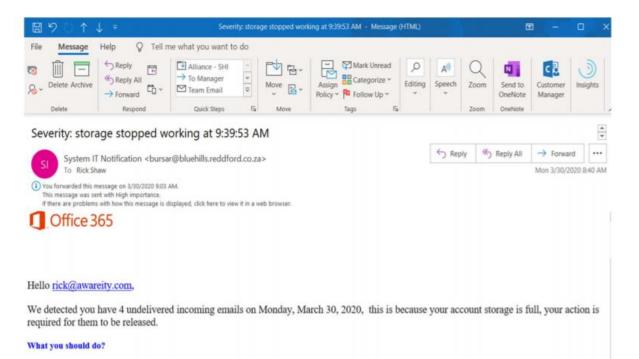
Description: Phishing Attempt - 02/03/2021

Please review this updated awareness to help ensure the safety of our organization's information and people.

Status	Document	Description
Not Read	Adobe	Please click on the PDF icon to open and review the document(s), then carefully follow instructions listed.

If you understand and agree to comply with this policy, type AGREE in the box below and click the ACCEPT button.





People trying to contact you will receive a message to this effect except you take action below to your portal to retrieve messages and choose what happens to them.

Restore Messages

awareity.com support for rick

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Human Factor Risks

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Click on the title of the Policy/Document to review

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Group by:	Sort by:	
Document Groups ∨	Title	•

**ALERTS	AA			•
	Document Title	Description	Eff. Date	Cert. Status
	AAV Alerts			Required Annually
	Bad Rabbit Ransomware	Release 10/27/2017	10/31/2017	Required
	COVID-19 Cyber Crime ALERT		3/30/2020	
✓			3/30/2020	
	COVID-19 Teleworking ALERT	Resources for employees now teleworking.	3/30/2020	Required
✓	Hackers Spread Ransomware V2		5/12/2017	•
	Netfix Hacked	Risks with Third Party Service Providers		Required Annually
	New App allows hackers easy access to phone	what employees need to know	12/19/2014	Required Annually
		Please download the attached PDF, fill in active fields to complete survey, save as PDF and upload to the Survey IR in TIPS.	1/21/2015	Required Annually
	News alert	example	11/8/2017	Not Required
~	Phishing ALERT	Phishing Attempt - 02/03/2021	2/3/2021	Required

Emerger	ncy Preparedness/Emergency Response		٠
	Document Title	Description	Eff. Date Cert. Status
	Active Shooter	What to do if you find yourself in an active shooter situation	12/19/2014 Required Annually
	Bomb Threat	Please refer to the Bomb Threat Checklist (attached) for guidance on the information to be gathered.	12/19/2014 Required Annually
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	D 0.4	B 14 8	101101001110 1 14 11



(Organization)

Policy/Document Status - (grouped by user)

[Download this Report]

[Print this Report]

Report Date: 1/31/2021 1:47:46 PM

Report Date: 1/31/2021 1:57:20 PM

Sort by: Date/Time

Sort by: Policy/Document Name v

User / Policy/Document Name	Policy/Document Agreed	Date/Time Acknowledged	Required For Cert	Required Annually	Dept/Group	Location Unit Email	Supervisor Email
Admin, Awareity					Crisis Management	adminhelp@awareity	com
Organization's Ethics Standards	No		Yes	Yes			
OSHA Training	No	-	Yes	Yes			
Password Policy 2020	Yes	1/14/2021 2:32:20 PM	Yes	Yes			
PCI â€"DSS Training	No	-	Yes	Yes			
Phishing ALERT	Yes	1/31/2021 1:45:37 PM	Yes	No			
Power Outage	No		Yes	Yes			
Protocol for Involving Law Enforcement	No		Yes	Yes			
Protocols to Address Emergencies and Incidents that Generate Heightened Concern	No		Yes	Yes			

User Activity Report

Reporting Period: Earliest through 01/31/2021

[Download this Report]

[Print this Report]

Date/Time

User: Admin, Awareity Email: Organization: (Organization) Dept/G

Email: adminhelp@awareity.com
Dept/Group: Crisis Management

Location: Unit:

Activity Type

Additional Info

1/31/2021 1:42:21 PM policyfile-userread 1/31/2021 1:45:37 PM policyagree Policy ID: 1476 - CIT ID: 925 - FilePath: /Content/36000/1585584978-Phishing Example - Microsoft - Restore Messages.pdf - MD5: 1a01aac9d0d859d44bf90251cba24a48

Policy: 1476



(Organization)

Policy/Document Status - (grouped by policy/document)

[Download this Report]

[Print this Report]

Policy/Document Name / User	Policy/Document Agreed	Date/Time Acknowledged	Required For Cert	Required Annually	Dept/Group	Location Un	it Email	Supervisor Email
Phishing ALERT								
Admin, Awareity	Yes	1/31/2021 1:45:37 PM	Yes	No	Crisis Management		adminhelp@awareity.com	
Crisis, Management1	No		Yes	No	Crisis Management		crisis_management@awareity.com	1
EAP, Personnel1	No		Yes	No	Employee Assistance Programs		eap_personnel@awareity.com	
Guard, Security	No		Yes	No	None		security's@awareity.com	
Head, Department	No		Yes	No	Administration		demo@awareity.com	
Human, Resources1	No		Yes	No	Human Resources		human_resources@awareity.com	
Legal, Counsel1	No		Yes	No	Legal Counsel		legal_counsel@awareity.com	
Occupational , Safety and Health1	No		Yes	No	Occupational Safety and Health		support@awareity.com	
Olvey Keira	No		Ves	No	Human Resources		keira olvev@awareity.com	

Yes

Yes

No

No

Administration

Administration

No

No

Report Date: 1/31/2021 1:54:07 PM

Sort by: Name

policeorg.com@awareity.com

sandraprice@archstl.org



Police, Local

Price, Sandra



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□ Information Risks

☐ Internet Security
☐ E-mail Security

Human Factor Risks

☐(Organization) Vault

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☐ E-mail Security
☐ Human Factor Risks
☐ (Organization) Vault

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Title: COVID-19 Teleworking ALERT

Description: Resources for employees now teleworking.

The following file(s) represent or augment the body of this policy.

Status	Document	Description
Read	Adobe	Please click on the PDF icon to open and review the document(s), then carefully follow instructions listed.
Read	Adobe	Please click on the PDF icon to open and review the document(s), then carefully follow instructions listed.

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■ (Organization) Vault

Powered by Awareity

Title: Password Policy 2020

Description: Password Guidelines

The following file(s) represent or augment the body of this policy.

Status	Document	Description
Read	Adoba	Please click on the PDF icon to open and review the document(s), then carefully follow instructions listed.

Please click here to answer the mandatory questions for this document/training.

If you understand and agree to comply with this policy, type AGREE in the box below and click the ACCEPT button.





Questions to Get Started?

- Can you afford costs of being hacked?
- Can you afford consequences of being hacked?
- Why are so many information breaches happening?
- Why are so many information breaches successful?
- What do post-incident reports reveal about breaches?
- How do you prevent information breaches?
- How do you eliminate your gaps?



Game-Changer is Patching People (Vault)

- Easy and immediate awareness at the individual level
- Excellent for at-work or remote workers
- Excellent for contractors, vendors, other third-parties
- Provides REAL TIME measurability, accountability, etc.
- Provides audit-ready and legal-ready documentation
- Automated notifications for immediate and annual updates
- VITA Approved / SHI Contract / Clients say it best...



What our clients are saying:

"AN EASY TO MANAGE AND EFFECTIVE ONLINE TOOL WHICH HAS GREATLY REDUCED THE TIME WE SPEND DELIVERING, TRACKING, AND RESPONDING TO USER TRAINING AND COMPLIANCE. ADDITIONALLY, WE ARE VERY PLEASED WITH THE TIMELY AND EXPERT SUPPORT WE RECEIVED FROM THE AWAREITY STAFF."

"WE HAVE BEEN UTILIZING AWAREITY"S PLATFORM FOR OVER FIVE YEARS AND EVERY YEAR WE FIND MORE AND MORE WAYS TO UTILIZE IT TO SAVE MONEY AND IMPROVE OUR EMPLOYEES' AWARENESS."

"TRAINING ADDS VALUE AS IT MAKES COUNTY EMPLOYEES AWARE OF ONGOING DANGERS/PITFALLS AND PROVIDES HELPFUL SUGGESTIONS AS TO HOW THE AVERAGE USER CAN ENHANCE SECURITY BY PUTTING THESE SUGGESTIONS INTO PRACTICE."



Awareity Contact Information

Rick Shaw – Prevention Specialist 402.730.0090



Rick.Shaw@Awareity.com

Info@Awareity.com

www.Awareity.com



@Awareity



@PreventionCoach







Identified Issues



Government | Customer Portal | Partners | Events | Contact Us | English >

PRODUCTS > SOLUTIONS > SUPPORT > COMMUNITY > FREE TRIALS CONTACT SALES ONLINE QUOTE Q

SolarWinds asks all customers to upgrade immediately to Orion Platform version 2020.2.1 HF 2 to address a security vulnerability.

More information is available here.



Identified Issues

- Do we have the SolarWinds Orion product installed here?
- Are we connected to anyone through our network that may have Orion?
- Are we using any vendors/ suppliers that may have been impacted by SolarWinds?



Identified Issues

- Attacker replaced the upgrade executable for SolarWinds Orion early summer 2020
- The Orion product allows a company to digitally sign a product an ensure its source and identity
- This allows an attacker access to the product through a backdoor DLL and gives the ability to escalate privileges in the Orion environment
- The Orion product requires escalated privileges in order to sign applications and this may be a Domain Admin account in cases



Identified Issues - breakdown

- The product hack creates a backdoor in around 18,000 companies and gov't agencies
- The hack spread to FireEye which gave attackers access to tools they use for penetration testing and red team engagements
 - Many of their tools took advantage of vulnerabilities not entirely disclosed
 - A lot of vulnerabilities published immediately as a result Many were critical!
- The attack may also have allowed attackers to Microsoft's Core Source Code



- Security practices at SolarWinds are in question right now
- Asset Management
- Third Party Risk Management
- Product/ Supply Chain Risk Management
- Incident Response Plan



- Security practices at SolarWinds are in question right now
 - Password security
 - Multifactor Authentication for publicly exposed resources or privileged accounts
 - Privileged access to third parties



- Asset Management
 - "Know Thyself"
 - Hardware, Software, and Data Asset Management
 - Criticality and Risk



- Third Party Risk Management
 - Who do you work with today?
 - What do they do for you?
 - What impact will they have on your operations?



- Product/ Supply Chain Risk Management
 - Is there impact within your supply chain?
 - Do you have redundancy built into your supply chain?
 - What is your recovery/ return to normal operations plan?



- Incident Response Plan
 - Do you have one created?
 - When was the last time the plan was tested?
 - Do you improve it when an opportunity is identified?

 e^{\dagger}

Why ePlus for Security?

- ✓ Leading technology integrator
 - **✓ 1400** security customers
 - √ 19-year track record, including 3 security acquisitions
- ✓ Breadth of engineering talent and expertise
 - ✓ Dedicated engineering resources, logging 80,000 hours of client work per year
 - 400 security certifications, capturing technical and industry leadership
- ✓ Broad solutions portfolio
 - Security Advisory Services, focused on GRC and Assessment Offerings
 - ✓ Advanced Integration Services
 - ✓ Managed Security Services
 - ✓ Financing
- ✓ Strong Industry Relationships
 - ✓ Partnerships with 135+ security vendors
 - ✓ Active participation on 10 industry councils











Why ePlus

In today's constantly changing, complex tech landscape, organizations need a partner that can solve short-term challenges with sustainable solutions that ensure long-term success.



"Do what it takes" dedication

Long-term view and enduring commitment extending well beyond the transaction



Industry-leading consultative expertise

Capability to help customers better understand their evolving business environment



Comprehensive offerings

Transformative technology to deliver measurable business outcomes



Proven processes & methodologies

Up-front assessments, followed by design and architecture, deployment and implementation, managed services, professional services, and staffing



Highly-accessible, consumption-based solutions

Enable future success and better position our customers for tomorrow's needs



The Sun Will Come Out!

- We have survived and will continue to survive
- ➤ We survive as a species because of our adaptability
- "This too shall pass" Persian adage









DevSecOps, Cloud Native Applications, Zero Trust and Security AI:

Security Transformation at the Intersection

January 2021

Dennis Moreau, PhD Sr Engineering Architect Advanced Technology Group VMware Office of the CTO

- Cloud Native Architectures, DevSecOps, Zero Trust and Security AI have not been "silver bullets" in isolation ... and are unlikely to be in the future
- At the intersection between these innovations, truly interesting things begin to happen
- The hosting platform is in a position to connect these mutually beneficial technologies
- Some examples of evolution in this direction
 - Standards
 - Public Clouds







CNA: Comparison

Conventional Applications Architecture

Large software artifacts

Complex interaction/attack surface

Evolved code base

Large trust boundary, large segments

Impact: Largest existing application footprint

Cloud Native Applications Architecture (reference architectures)

Many small, more easily grok'd parts

Defined interactions (api) / sharing points (services)

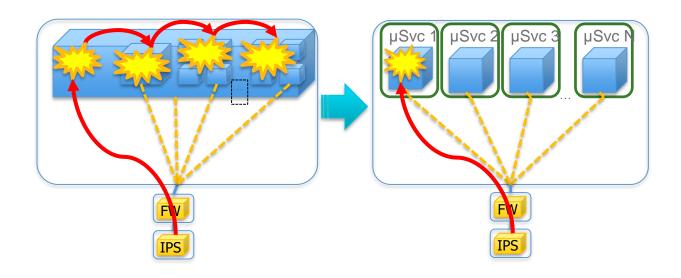
More frequently updated/fixed code base

Can be isolated/segmented at the container, micro-service, function... level

Impact: Fastest growing; over 50% of cloud



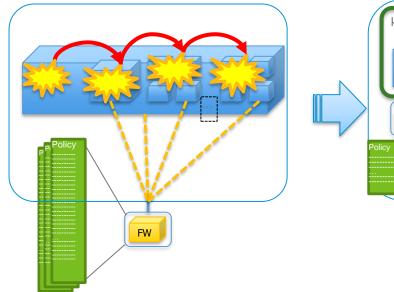
CNA: Aggressive Compartmentalization around Components



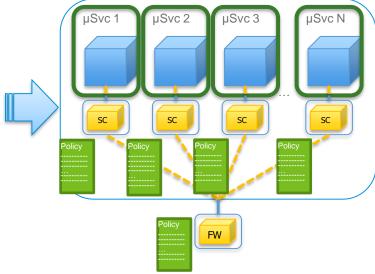
Containment and Protection



CNA: Granular Policy Simplification and Consistency



Policy sets large
Policy sets mixed focus
Policy sets hard to change
Dynamics complex & fragile
Lateral movement invisible

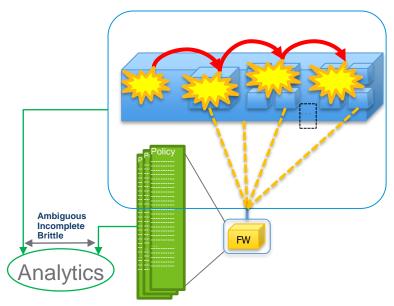


Policy sets much smaller
Policy focused on one Svc/Abstraction
Policy sets easy to change
Dynamics are integral
Lateral movement visible and restricted

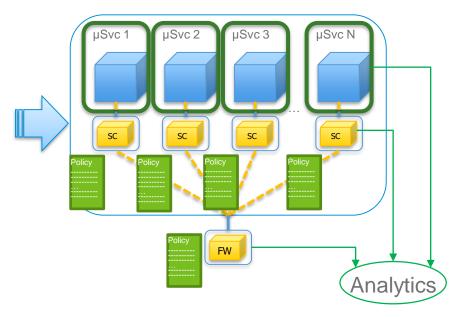
SC := Service Mesh Side Car



CNA: Improved Actionability, Explain-ability ... Dynamics



Policy sets large
Policy sets mixed focus
Policy sets hard to change
Dynamics complex & fragile



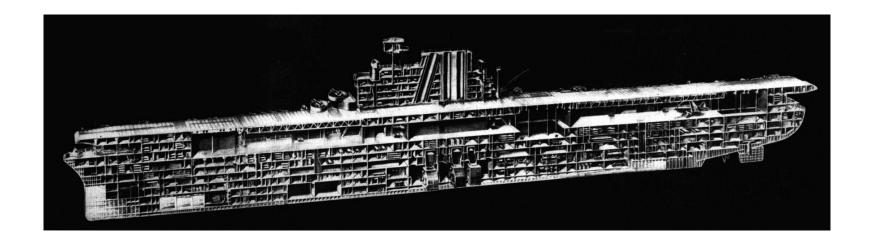
Policy sets much smaller
Policy focused on one Svc/Abstraction
Policy sets easy to change
Dynamics are integral

SC := Service Mesh Side Car



CNA security resilience comes from:

Distributed, Decoupled, Dynamic components ... each of which can have its own state, isolation, policy, instrumentation, development/fix lifecycle, ...



Challenge: But, where does all that API policy for all those policy enforcement points come from???



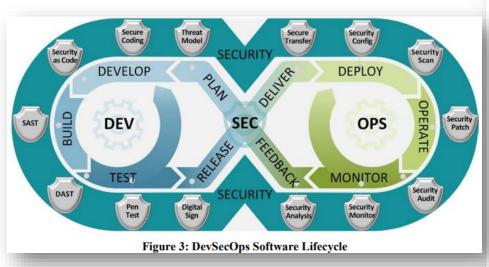
DevSecOps

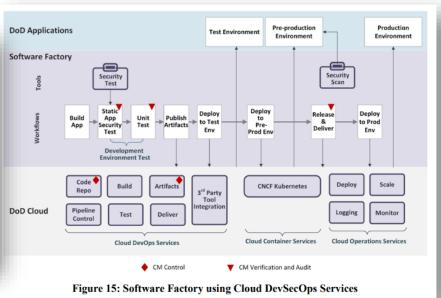
Shifted-Left Security



DevSecOps for and in cloud

DevSecOps as a Service (certified: AF Platform One)



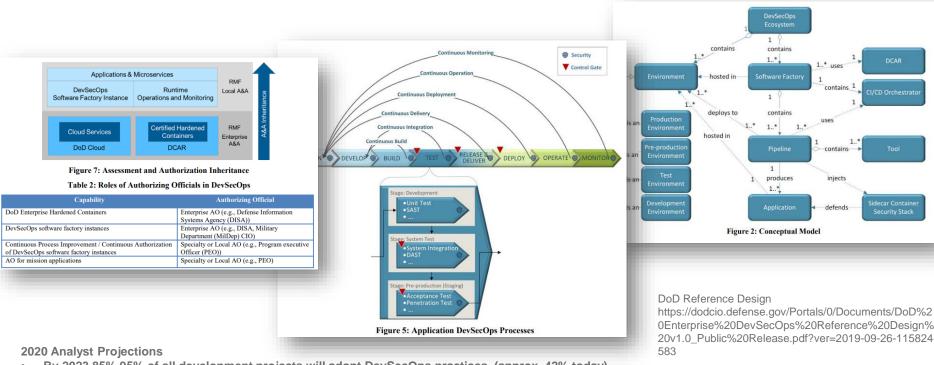


Page 18: https://dodcio.defense.gov/Portals/0/Documents/DoD%20Enterprise%20DevSecOps%20Reference%20Design%20v1.0 Public%20Release.pdf?ver=2019-09-26-115824-583



devSecOps – Infrastructure vs Application – Continuity - Context

Beyond DoD



- By 2023 85%-95% of all development projects will adopt DevSecOps practices. (approx. 42% today)
- By 2023 20%-30% of all development projects will be following DevSecOps from design thru production. (approx. 12% today)

0Enterprise%20DevSecOps%20Reference%20Design% 20v1.0_Public%20Release.pdf?ver=2019-09-26-115824-

Anchore:

https://blog.executivebiz.com/2020/06/anchore-gets-dodcertification-for-hardened-devsecops-software/

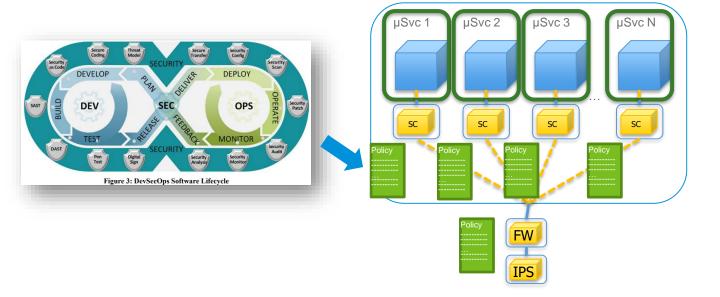
https://www.csoonline.com/article/3245748/what-is-devsecops-developing-more-secure-applications.html

API Desc, Test, Dep...



Enter DevSecOps

Context from the Left



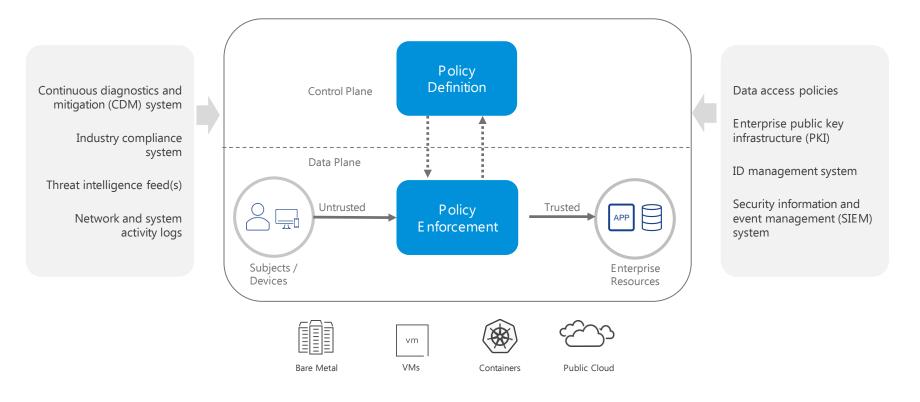


Zero Trust: Aligning the Security Portfolio

Suppose we can give the right level of policy to the granular isolation boundaries in a CNA, ... there are still multiple-modalities of security to align



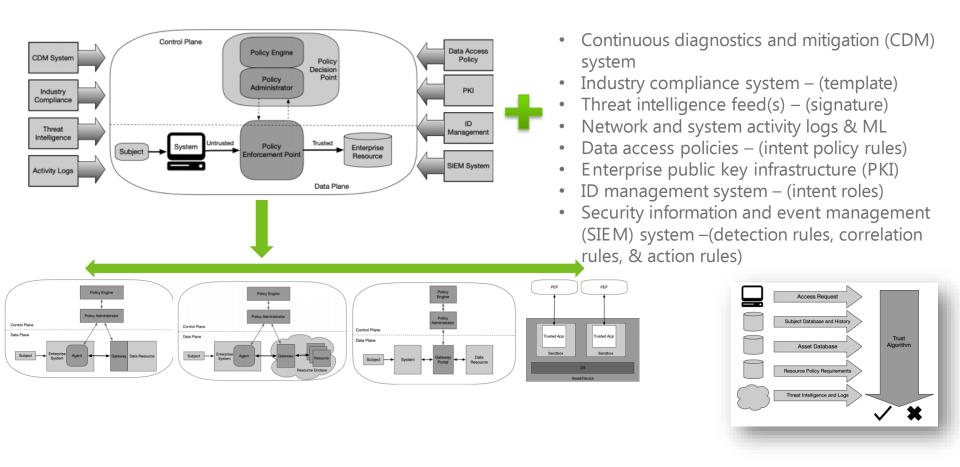
NIST ZTA: One way to enable simpler more resilient security policy



Ref: NIST SP 800-207 - Zero Trust Architecture – pp 9, 14-17



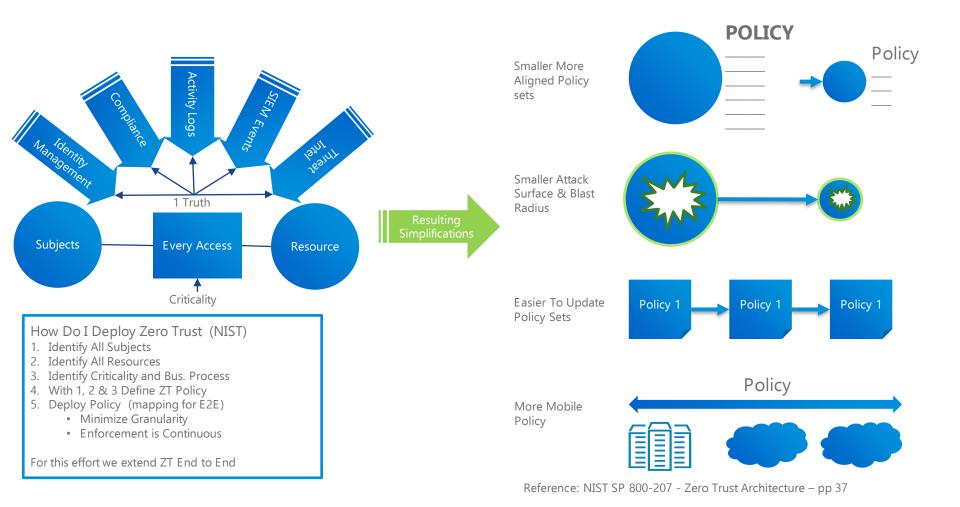
ZT System Components





Platform Enabled Security Portfolio Alignment

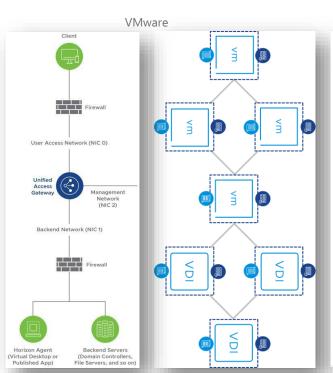
What is Zero Trust? And why use it?



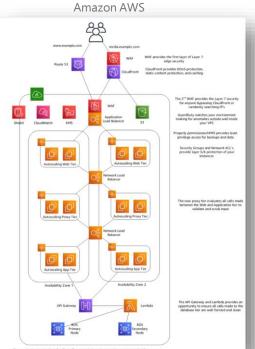


Zero Trust Reference Architecture – (not the only approach)

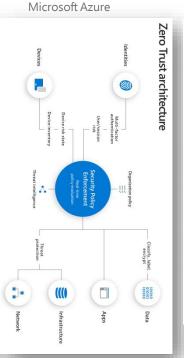
Security Architecture – Automatable, Normalized, Cross Platform



https://techzone.vmware.com/resource/zero-trust-secure-access-traditional-applications-vmware



https://aws.amazon.com/blogs/publicsector/how-to-think-about-zero-trust-architectures-on-aws/



https://www.microsoft.com/enus/itshowcase/implementing-a-zerotrust-security-model-at-microsoft



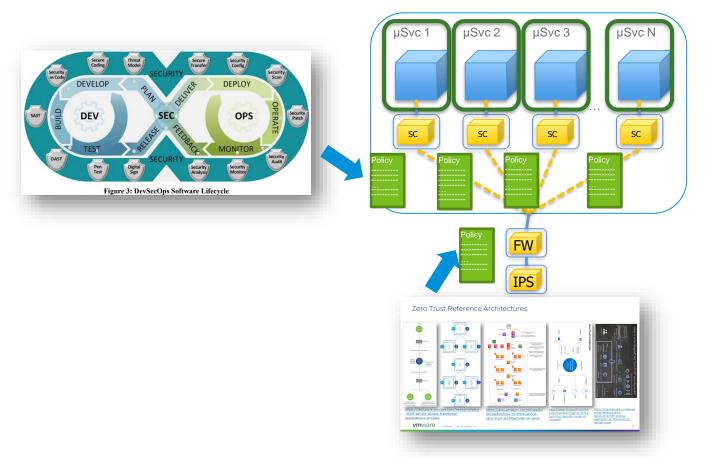
Google

https://cloud.google.com/blog/pr oducts/applicationdevelopment/13-popularapplication-architectures-forgoogle-cloud



Enter Zero Trust

Context from below









Leveraging Platform Metadata

Alignment: Leveraging Platform Metadata

Compartmentalization:

Classification (Intention vs. Observation)

Segment

Protection

Trusted Communication:

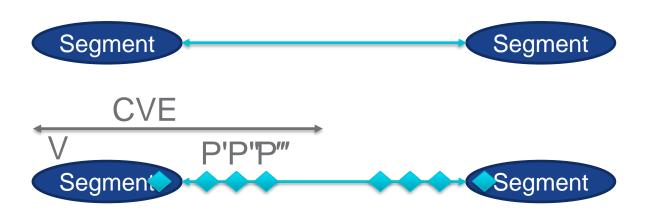
Sources

Destination

Dependency

Controls Policy:

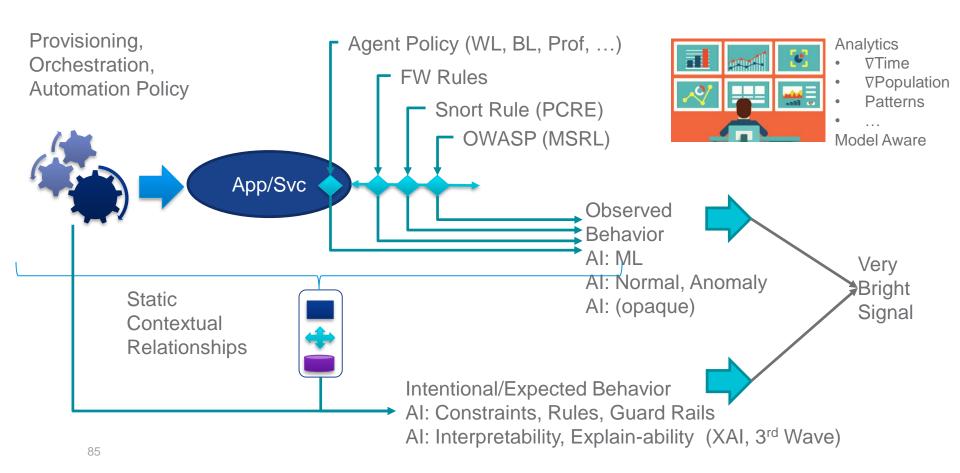
EP & NW Instrumentation Aligned, Contextual, Actionable





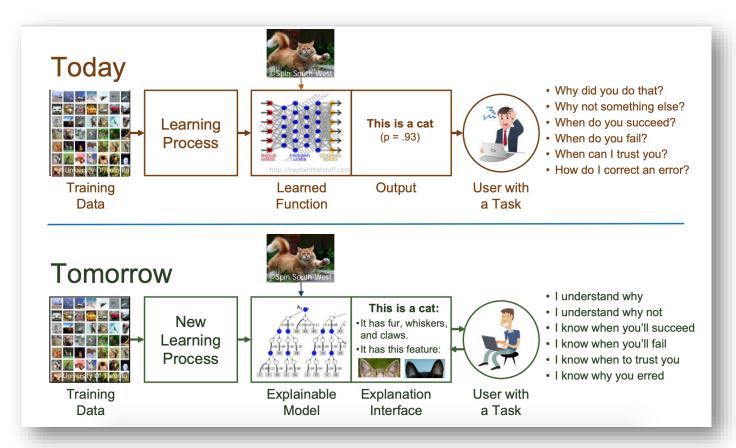
Policy, Behavior and Analytics in Context

Policy, Behavior and Analytics in Context





Directional: Explainable Al

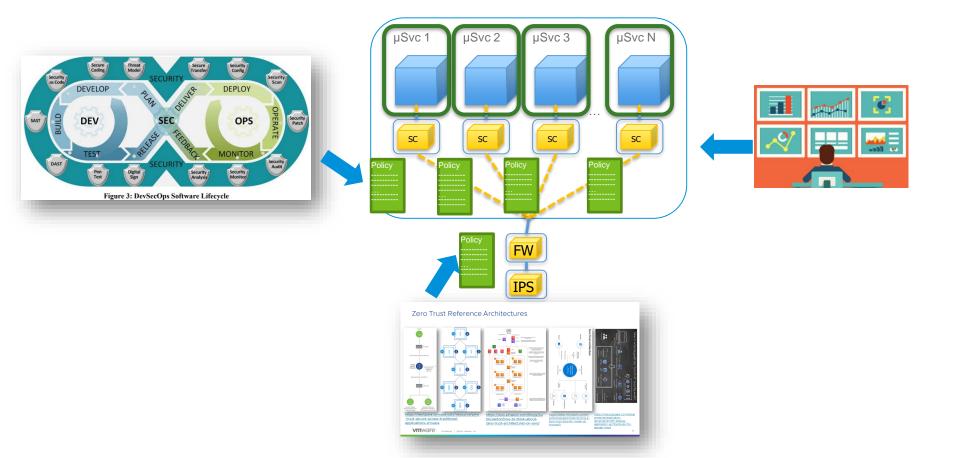


https://lawtomated.medium.com/explainable-ai-all-you-need-to-know-the-what-how-why-of-explainable-ai-dcf2287a9f6c

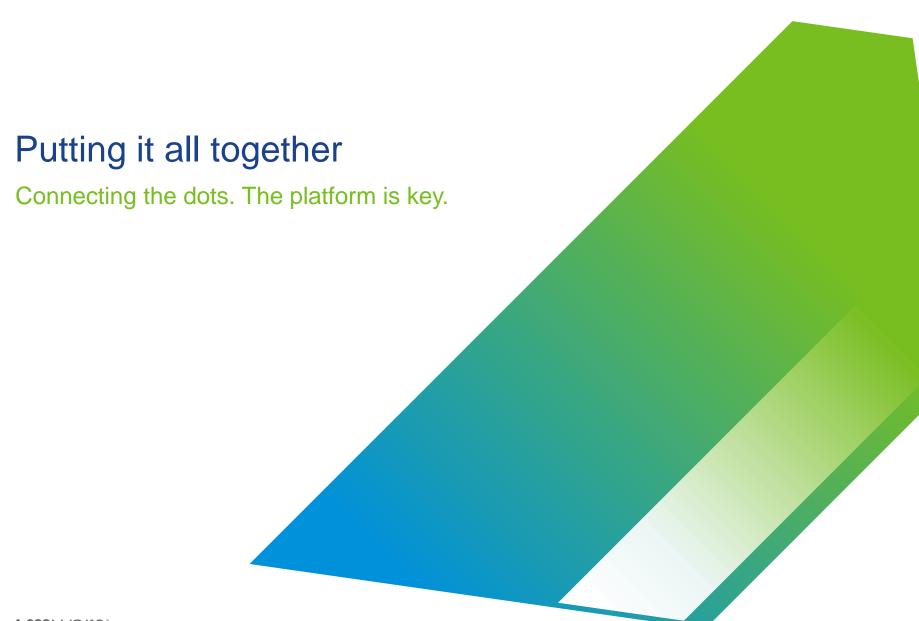


Enter AI (XAI)

Context from the Right

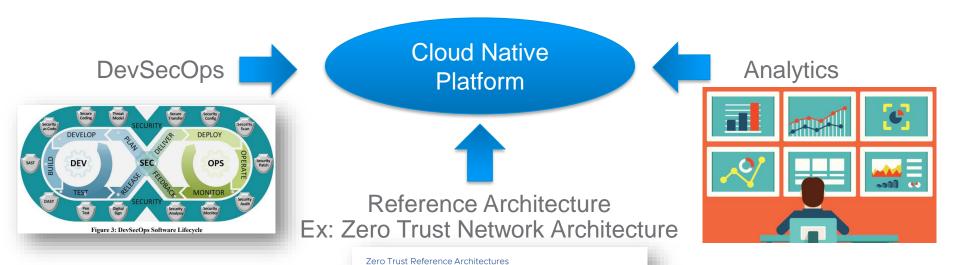








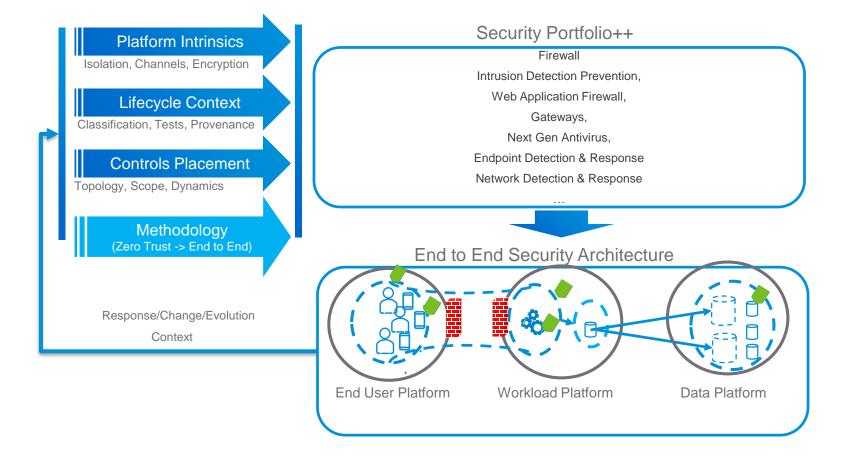
Only the Hosting Platform Connects all the Pieces





System Policy and Guardrails

The Role Of the Platform



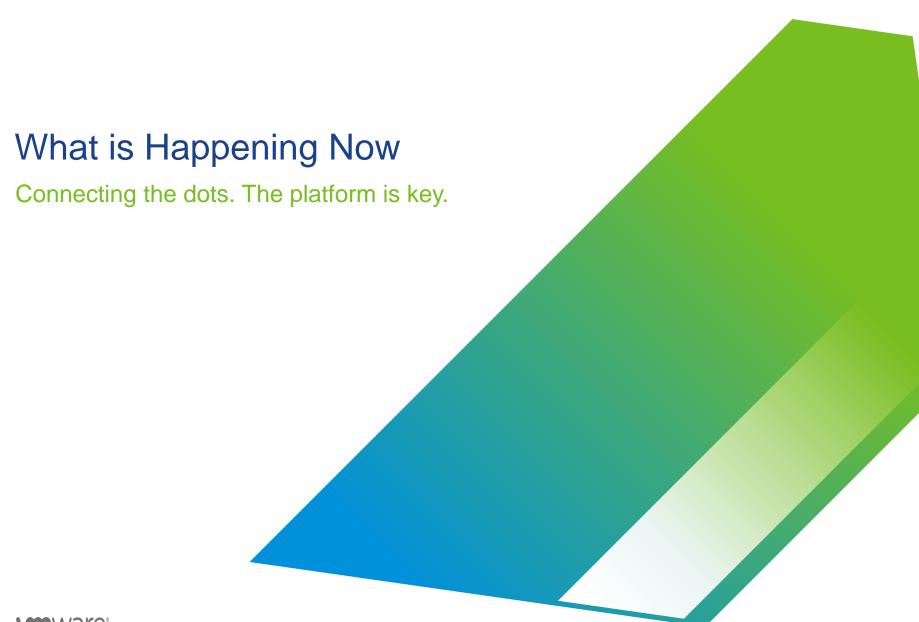


End to End ZT: Aligning Policy across Hosting Contexts

Directional

Service insertion Hosted Protection Device Policy **Endpoint Security** Service Chaining AV (App) FW (App) FW (App) WAF (App) DLP (App) CASB (App) EDR (App) IPS (App) IPS (App) CASB (App) Profile App) NGFW (App) NGFW (App) vDDoS (App(s)) Access Profile (App) Config (xApp) WAF (App) ...) WAF (App) ...) Provision App Personal App Corporate App Corporate App2 Inter-Svc - All E/W Traffic All E/W Traffic Container Introspec, All N/S Traffic Mobile App Protection Controls & Agents Virtualized Sec on DC Host NFV Farm Sec Cloud Hosted Sec Isolation & Visibility HW Enforced Isolation







NIST: Zero Trust Extension

https://www.nist.gov/programs-projects/trustworthy-networks-things

Trustworthy Networks of Things

f in 💆 🖾

News and Announcements Associated Products

Summary

NIST is working with industry to design, standardize, test and foster adoption of network-centric approaches to protect IoT devices from the Internet and to protect the Internet from IoT devices.

DESCRIPTION

Our work focuses on networkcentric approaches to improve the security and robustness of large scale deployments of IoT devices.

- The research and development of softwaredefined networking technologies in support of IoT security.
- The design and IETF standardization of Manufacturer Usage

Description (MUD) at technologies to enable a scalable and automated means to enforce device specific access control within network switches and routers.

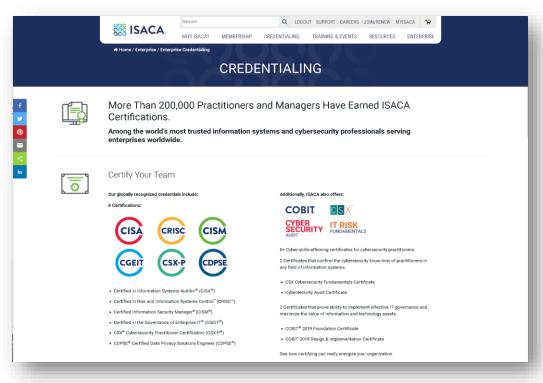
- The design and standardization of technologies to securely "on board" IoT devices on to networks and to provision credentials to local devices.
- The application of automated model checking techniques to verify the security properties of emerging IoT security protocols.
- . Research on the application of zero trust architecture to IoT environments.
- Research on the use of <u>DNS-based Authentication of Named Entities (DANE)</u> as a trust infrastructure for constrained IoT environments.

https://www.nist.gov/system/files/documents/2021/01/21/Agenda%20DSOZTA%20Jan%2027%202021%20DRAFT%20v8.pdf

DevSecOps and Zero Trust Architecture in Multi-Cloud DRAFT **Tetrate** MC: Dr. Michaela lorga, Senior Security Technical Lead, NIST Wednesday, January 27, 2021 11:00 am [25] **Kickoff Keynote** 8:00 am [PST Varun Talwar, CEO, Tetrate 11:25 am [20] DevSecOps: Benefits and Vision NIST IR 8313 – Attribute-based Access Control for Microservices-based 11:45 am [25] **Applications using Service Mesh** Zack Butcher, Founding Engineer, Tetrate 12:10 pm [15] 12:25 pm [25] Zero Trust: Past, Present, and Future Zulfikar Ramzan, Chief Technical Officer, RSA 12:50 pm [25] Air Force (AFLCMC/HNCP) Platform One Nicolas M. Chaillan, Chief Software Officer, Air Force Co-Lead, DoD Enterprise DevSecOps Initiative 1:15 pm [25] Using Mesh Architecture to support ZTA and DevSecOps Adam Zwickey, Engineer, Tetrate 1:40 pm [55] **Lunch (Breakouts Rooms)** 2:35 pm [45] **Demo: Identity Provisioning in a Service Mesh** Ignasi Barrera, Founding Engineer, Tetrate **Demo: Federated Sharing of Disparate Database Resources** Joshua Roberts, Computer Scientist, NIST 3:20 pm [25] Blockchain-based Secure Software Assets Management (BloSS@M) 12:20 pm [PST Andrew Weiss, Lead Architect and Technical Advisor, UMBC 3:45 pm [25] **Transitioning to the Mesh** Kevin Paige, CISO, Flexport 4:10 pm [15] Panel: Ask the Experts 4:25 pm [45] Join us for an exhilarating fireside chat with adopters and experts of cutting-edge technologies such as ZTA, multi-cloud, service mesh and DevSecOps. Get engaged with our guests by bringing forward your concerns and questions. Moderator: Dr. Michaela Iorga, Senior Security Technical Lead, NIST Andre' Mendes, Chief Information Officer (Acting), DoC Sorin Nastea, Associate Director of Informatics Architecture, FDA James Younger, DHS Nicolas M. Chaillan, Chief Software Officer, Air Force Zack Butcher, Founding Engineer, Tetrate Closing Remarks - Matthew Scholl, Chief, Computer Security Division, NIST



ISACA Organization – 200,000 Practitioners - 1 Vocabulary



Audit Risk Cybersecurity Compliance

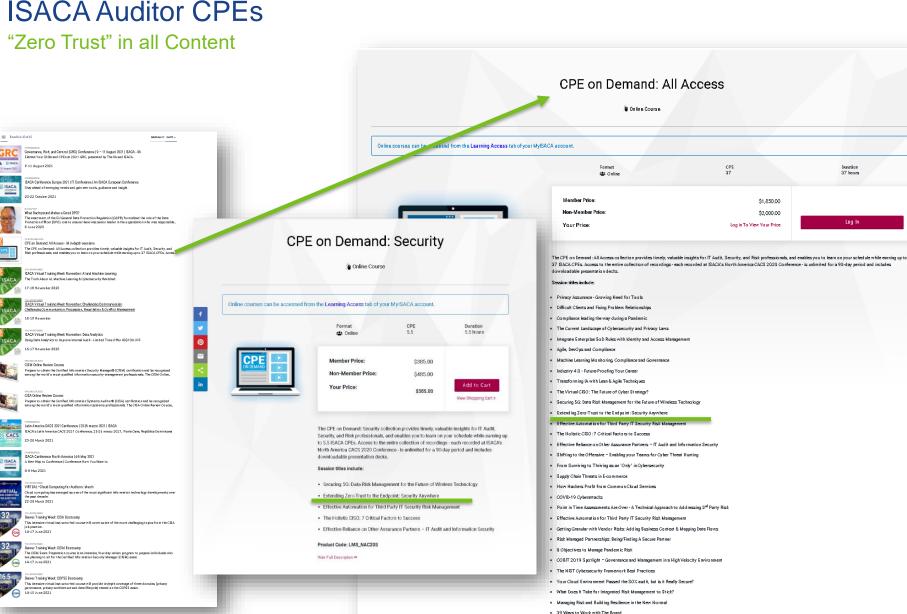
- Certification
- CPE
- Platform





ISACA Auditor CPEs

mware



Transform Your Data: The Journey to Realize Your RPA And Data Analytic Dreams

 See What You've Been Missing! A View Through Audit Analytics . Fighting Fraud with Data Analytics and IA Product Code: LMS_NAC20ALL

ISACA: Global Definition

Transform From Trust to Zero Trust at Asia CACS 2020

O V

Author: ISACA Date Published: 23 November 2020

This year, the COVID-19 pandemic and its resulting physical distancing requirements have made the idea of congregating with other professionals to explore industry topics and insights seem like a thing of the past. Yet the ISACA® community can still gather virtually to share insights and experiences through the online-only Asia CACS 2020 virtual conference. Asia CACS, taking place 11-12 December 2020, is designed to teach participants how to go from "Trust to Zero Target".

The conference will have 3 parallel tracks available, exploring the following topics:

- Track 1: Assurance—The assurance path will include discussions about alignment to trust principles in safeguarding an organization, zero trust policy and its
 management, and how to audit a zero trust model.
- Track 2: Defense—This track will explore zero trust architecture, the role of microsegmentation in zero trust and access management in trust verification.
- Track 3: Oversight—The oversight track will focus on governance of the zero trust model, risk management in a zero trust framework and performance
 measurement in adherence with zero trust security vs. traditional security models.

Participants who attend can earn up to 14 continuing professional education (CPE) credits throughout the 2-day conference. An additional 7 CPE credits will be available to earn through the available pre-conference workshops.

To learn more about Asia CACS 2020 and register for the conference, visit the ISACA Asia CACS Conference page of the ISACA website.

CACS Global Auditor Guidance

Zero Trust Definition - A Model

Zero Trust Maturity Model

It is quite challenging to identify a maturity model for zero trust because there is no one size that fits all. Every organization is unique, operating in different industries with varied compliance requirements. As discussed, business priorities define the zero trust architecture and migration priorities. Figure 4 shows the effort to develop a yard stick that generally satisfies the basic requirements, it provides indicative information that can be used for assessment.

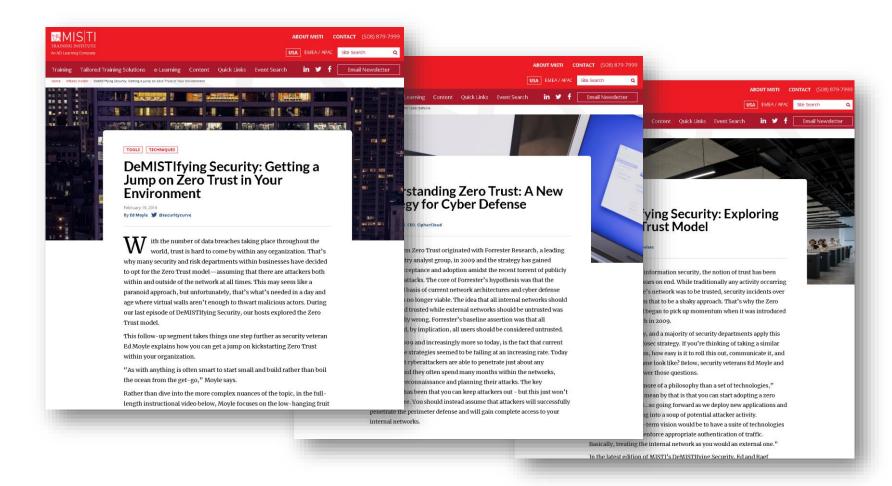
		Figure 4-Zero	Trust Maturity Model			
Zero Trust Elements	Initial	Developing	Defined	Managed	Optimizing	
workflows are not a formally documented. Access is granted on perimeter device a		Data sources, workflows and classification scheme are documented. Data are classified and labelled manually.	Automated content-based data classification, labelling and protection is in place.	ML for classification, labeling and protection is used. Data loss prevention (DLP) is governed by workflows and potential attack vectors.	Periodic review of ML algorithm configuration is undertaken to ensure alignment with busines priorities.	
Communication	No documented policy for securing communications. Network traffic is encrypted for outgoing with static traffic filtering.	Formal network security policy is in place. Traffic is encrypted, but not consistently applied. Servers and clients are in separate network segments.	All traffic is secured based on protect surface. Network segmentation is in place within the server's network segment. Logs are maintained and reviewed.	Logs are aggregated centrally and reviewed for trend analysis. Deeper dynamic microsegmentation is in place based on protect surface.	Continuous analytics through ML are used to identify attack vectors and improvements in network security.	
User	Basic IAM, auditing at the system level and isolated single sign-on system (SSO) are used.	IAM with MFA, enterprise level SSO, auditing at system level with some integration to central logging repository are in place.	Automated IAM integrated with enterprisewide systems is in place, including session management, reauthentication, reauthorization and user activity logging	IAM integrated with other components such as device management, threat intel and mitigation, ML, and rapid incident response tools is used.	ML capability is used for session management based on various threa vectors. Periodically review reports from IAM and fine-tune IAM configurations and integration.	
Devices	Devices are secured by antimalware, active directory group policies. Only authorized devices can connect to the enterprise network.	A device management tool is in place, which ensures a device's compliance with established policies before it is connected to the enterprise network.	Devices are protected through endpoint detection and response (EDR) technology with real-time threat intel and mitigation. Non-enterprise devices can connect to a separate network segment with limited Internet connectivity.	Access control is managed through the user and device compliance status. Continuous device monitoring for anomaly detection is used.	Proactive threat huntir investigation and mitigation leveraged on ML and advanced analytics is employed.	
Infrastructure	Manual processes for managing permissions across servers and virtual machines (VMs) are used. Applications are open to any authorized user in the network.	Automated privileged access management integrated with session workflow management is in place. User to application access is secured based on defined workflows. Cloud access security brokers (CASBs) are used.	Unauthorized deployments are identified and alerts are triggered. Workloads are monitored for anomalies. Every workload has an application tag.	User and resource sessions are tagged and continuously monitored. Applications are secured through least privileges, SSO and user sessions are continuously monitored.	Dynamic least privileg rules are coupled with At to provide granular control across all workloads.	

Zero Trust Adoption Trend

A 2020 zero trust progress report surveyed more than 400 cybersecurity decision-makers, ranging from technical executives to IT security practitioners and representing a balanced cross-section of organizations of varying sizes across multiple industries. According to one survey report, confidence among security professionals is mixed. Fifty-three percent have confidence, whereas 43 percent are still doubtful in applying a zero trust model in their architecture. This mixed reaction can be understood by the fact that 40 percent of zero trust implementations resulted in an increase in budget, whereas 45 percent of budgets remained the same, and only 15 percent of organizations witnessed a decrease in their budget. Seventy-two percent of organizations plan to assess or implement zero trust capabilities in some capacity in 2020 to mitigate growing cyberrisk.¹¹



MISTI: Just Getting Started





ENISA



06_Reduction of false positives. This long waited promise is key in the future of the cybersecurity industry and in the fight against the alarm fatigue.

07 Zero-trust security strategies. With an increasing pressure on IT systems from new business requirements such as remote working, digitalization of the business model and data sprawl, zero trust is seen by many decision makers as the solution de facto to secure corporate

08_Enterprise cloud migration errors. With

many businesses migrating their data to cloud-based solutions, the number of configuration errors will increase exposing data to a potential breach. Cloud service providers will address the issue by implementing systems that identify these type of errors automatically.

09 Hybrid threats. New modus operandi adopt virtual and physical world threats. The spread of disinformation or fake news for example, is a key fixture of the hybrid threat landscape. The EUvsDisinfo[®] is a flagship project of the European External Action Service's East StratCom Task Force established to address the disinformation threat.

10_The attractiveness of the cloud

infrastructure as a target will grow. The increasing reliance on public cloud infrastructure will surge the risk of outages. Misconfiguration of cloud resources is still the number one cause for cloud attacks, but attacks aiming directly at the cloud services providers gaining popularity among







PlatformOne: Standardized DevSecOps as a Service

https://software.af.mil/team/platformone/





ReCap

- Cloud Native Architectures, DevSecOps, Zero Trust and Security AI have not been "silver bullets" in isolation ... and are unlikely to be in the future
- At the intersection between these innovations, truly interesting things begin to happen
- The hosting platform is in a position to connect these mutually beneficial technologies
- Some examples of evolution in this direction
 - Standards
 - Public Clouds



Questions?

Dennis R Moreau, PhD Sr Engineering Architect Advanced Technology Group Office of the CTO VMware dmoreau@vmware.com

Thank You



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INFORMATION SECURITY AWARENESS TRAINING STANDARD FORM INSTRUCTIONS





INFORMATION SECURITY AWARENESS TRAINING STANDARD FORM INSTRUCTIONS

Identify your training solution: Mark your agency's proposed solution to meet the training requirements identified in A, B, C, D and E.

- (A) Core requirements;
- (B) Policy review and acceptance;
- (C) Role-based training;
- (D) Other regulatory requirements;
- (E) Phishing exercise;
- (F) Additional training where required



SEC527 - INFORMATION SECURITY AWARENESS TRAINING STANDARD UPDATE





SEC527 - INFORMATION SECURITY AWARENESS TRAINING STANDARD ORCA COMMENTS

CSRM would like to thank everyone who submitted comments or suggestions for the SEC527 Information Security Awareness Training Standard. The comments have been reviewed and will be incorporated accordingly.

What's next?

SEC527 will be send to Nelson for review and approval. Any suggested changes by Nelson will be incorporated and a final copy of the standard will be posted on the VITA website under ITRM Policies, Standards & Guidelines/Tools and Templates.





SEC527 - INFORMATION SECURITY AWARENESS TRAINING STANDARD CURRICULUM - ROLE-BASED TRAINING COURSES

The following role based training courses are now available in the COVLC/LMS

1231-Data owner

1232-Data custodian

1233-System administrator

1230-Agency head

1020-System owner overview

1021-System owner risk

1301-System owner 1

If you have issues accessing the courses, contact your agency LMS Administrator



In accordance with the Code of Virginia, section 2.2-2009 sub-section I, all Commonwealth of Virginia agencies shall report the type of cybersecurity awareness training solution that they will administer to their employees. Training solutions (i.e. software, classroom or other) are required to meet the curriculum requirements identified in this document.

This information is to be submitted to VITA no later than Feb. 28, 2021 and every Jan. 31, thereafter.

Please complete the following:

Agency name: click or tap here to enter text.

Information security officer: click or tap here to enter text.

						Security	*Other		Classroom or	
		InfoSec	KnowB4	SANS	Awareity	Mentor	Software	DHRM LMS	Other Method	VITA
A	Core Requirements (required):									
В	Policy Review & Acceptance (required):									
С	Role Based Training (required):									
	System Owner Training									
	Data Owner Training									
	System Admin Training									
	Data Custodian Training									
	Agency Head Training									
D	Regulatory Training (required as needed):									
	Federal Tax Information (FTI)									
	Health Insurance Portability & Accountability Act (HIPAA)									
	Criminal Justice Information Services (CJIS)									
	FERPA									



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Identify training solution: please mark your agency's proposed solution to meet the training requirements identified in A, B, C and D.

	Social Security Training				
	Payment Card Information (PCI)				
	Personal Health Information (PHI)				
E	Phishing Exercise (required)				
F	Additional Training (optional)				



*Other software: If you are planning to use a software solution other than: Infosec / KnowB4 / SANS / Awareity / Security Mentor, please indicate it here. The use of any other training solution must be approved in advance.

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A - CORE REQUIREMENT COURSES

Separation of duties
Security incidents
Proper disposal of data storage media
Proper use of encryption
Access controls, secure passwords
Working remotely
Intellectual property rights
Security of data
Phishing and email
Social engineering
Mobile devices
Ethics

Least privilege identifying and reporting
Privileged access
Insider threat
Cloud services
Browsing safely
Physical security
Hacking
Personal identifiable information (PII)
Privacy
Social network
Malware



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B - POLICY REVIEW AND ACCEPTANCE COURSES

Require documentation of IT system users' acceptance of the agency's security policies. Information Security Awareness training must include policy review and acceptance

Acceptable use - All users of IT systems must agree to the agency's acceptable use policy.

Remote access policy - All users of IT systems must agree to the agency's remote access usage and/or Telework Policy.

Other applicable policies - Users of IT systems must review and agree to comply with any applicable agency security policies.



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D - OTHER REGULATORY REQUIREMENT COURSES

Agencies must provide training for all regulatory or contractual requirements that affect IT users. Agencies need to decide the appropriate level of regulatory training that is required for its users

Federal Tax Information (FTI)

Health Insurance Portability and Accountability Act (HIPAA)

Criminal Justice Information Services (CJIS)

Family Educational Rights and Privacy Act (FERPA)

Social Security Administration Training (SSA)

Payment Card Information (PCI)

Federal PII

Personal Health Information (PHI)



E - PHISHING EXERCISE

Agencies are required to conduct a phishing exercise or phishing training with their employee / contractor users. A phishing campaign will help identify if users can successfully recognize, avoid and report phishing attempts that may occur.

VITA will provide assistance in developing a phishing campaign for your agency if needed.





F - ADDITIONAL TRAINING WHERE REQUIRED

Agencies should offer training that goes beyond the required curriculum items when necessary in the agency's environment. The items below are a few suggested additional training that agencies should consider for their employees where appropriate:

- Senior leadership training
- New employee orientation training
- Creating a Cybersecure home
- Etc.





LOCATION OF FORM ON VITA'S WEBSITE

https://www.vita.virginia.gov/it-governance/itrm-policies-standards/

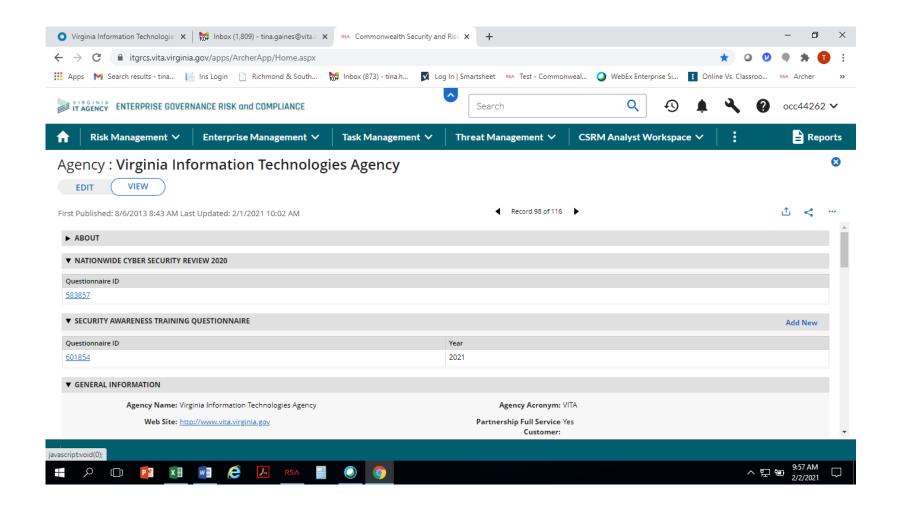
Tools and Templates

Agency Security Awareness Training Solution Form

This form is also now available in Archer

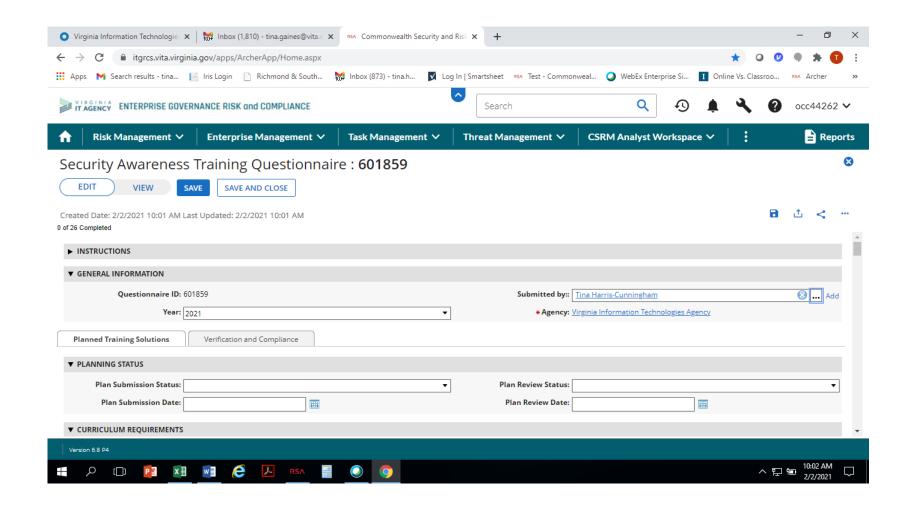




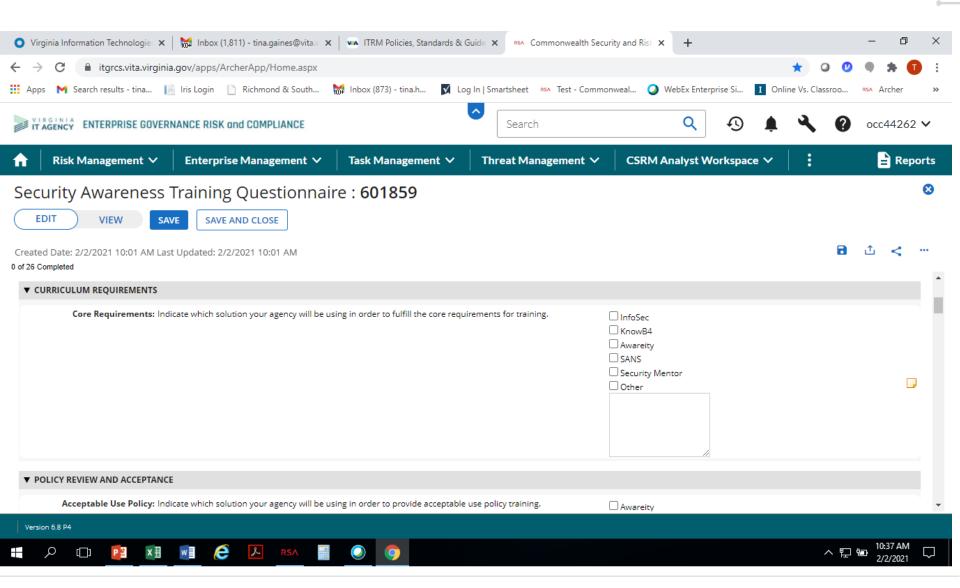
















QUESTIONS?

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UPCOMING EVENTS





IS ORIENTATION

The next IS Orientation will be held on

March 31, 2021

Presenter: Marlon Cole (CSRM)

Registration link:

https://vita2.virginia.gov/Events/chooseSession?MeetingID=10





VIRTUAL INFORMATION SECURITY CONFERENCE JUNE 24, 2021 MORE DETAILS WILL BE FORTHCOMING





MARCH 2021 ISOAG

March ISOAG Meeting March 3 from 1- 4 p.m. Webex

- Manju Generiwala, Department of Treasury
- Michael French, FBI
- Jennifer Whitty, Google





THANK YOU FOR ATTENDING

