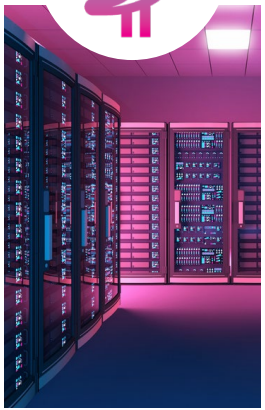

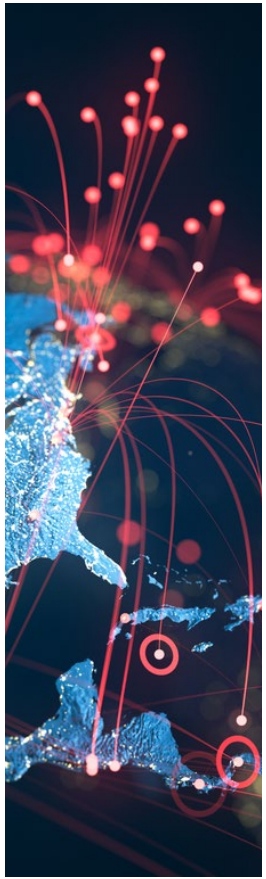

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A MicroAge® Company

Reduce Your Blast Radius with Segmentation

SECURING AND CONTROLLING YOUR NETWORK

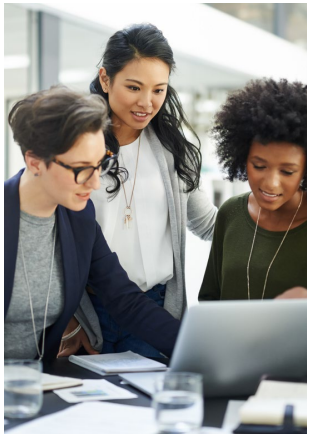
Andrew Roberts
Chief Cybersecurity Strategist
cStor

Joel Stine
Network and Firewall Architect
cStor

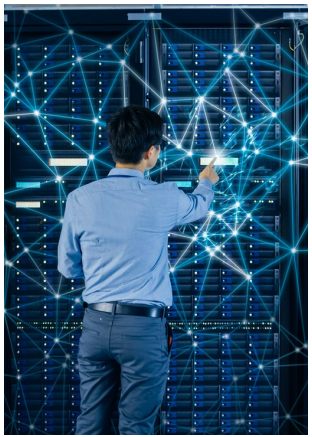
OUR APPROACH

Our mission is to **put people on a path to success**

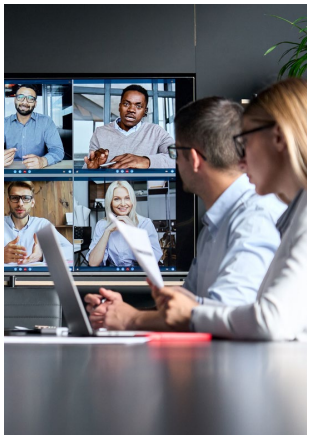
CLIENTS FIRST



HIGHLY SPECIALIZED



VENDOR AGNOSTIC



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SOLUTION OFFERINGS

Professional Recommendations to Ensure Your Infrastructure Evolves Alongside Your Business

CYBERSECURITY

DIGITAL TRANSFORMATION

MODERN INFRASTRUCTURE

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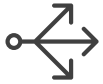
CYBERSECURITY

CLOUD

DELIVERY



DATA MIGRATION

MANAGED SERVICES

STAFF AUGMENTATION

CONSULTING AND OPTIMIZATION

SERVICE OFFERINGS

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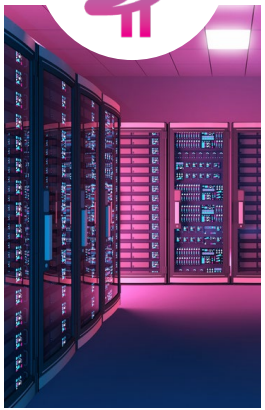

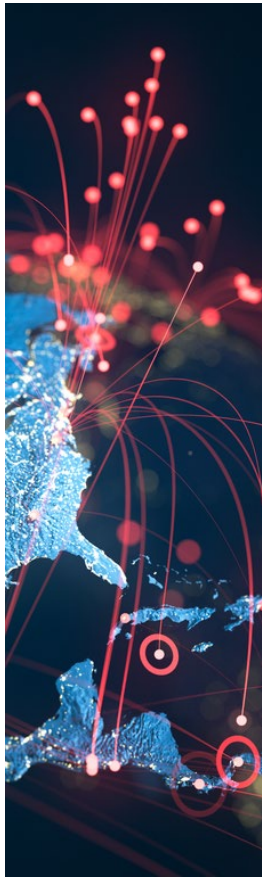

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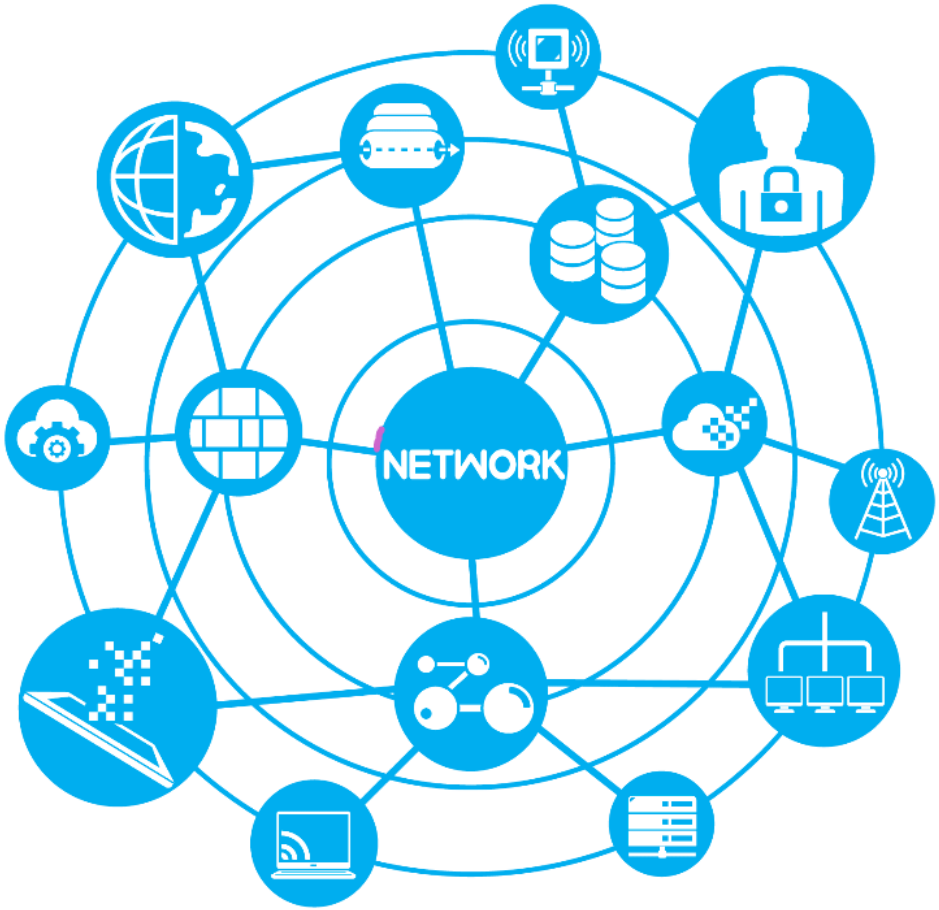

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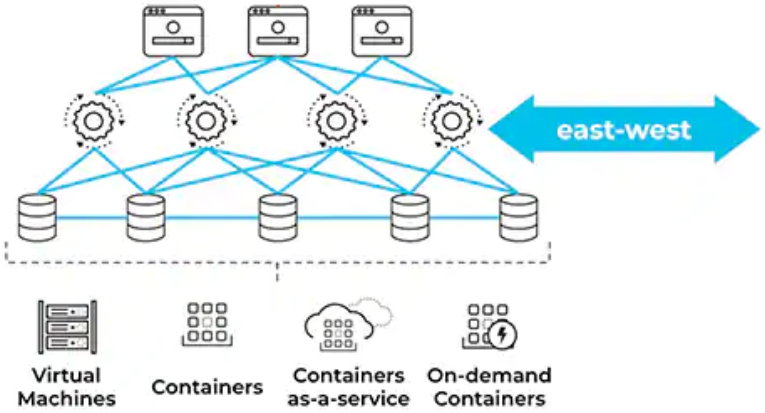
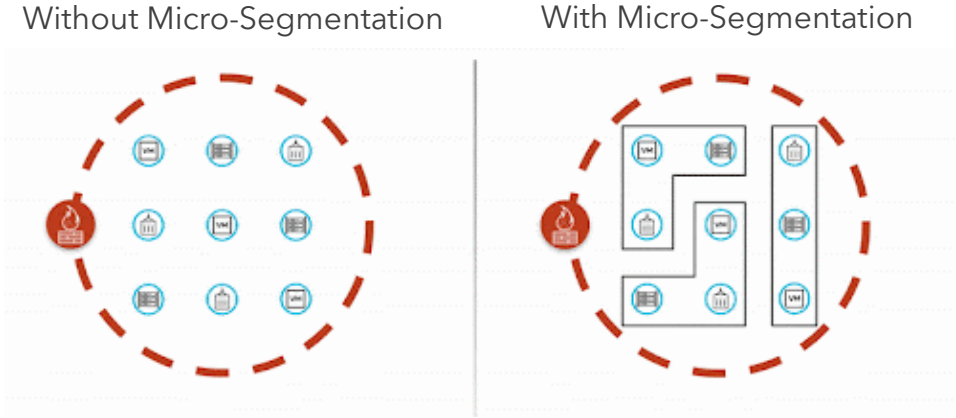
~75% of Traffic Flows East-West on a “flat” Network

Hackers know and exploit this!





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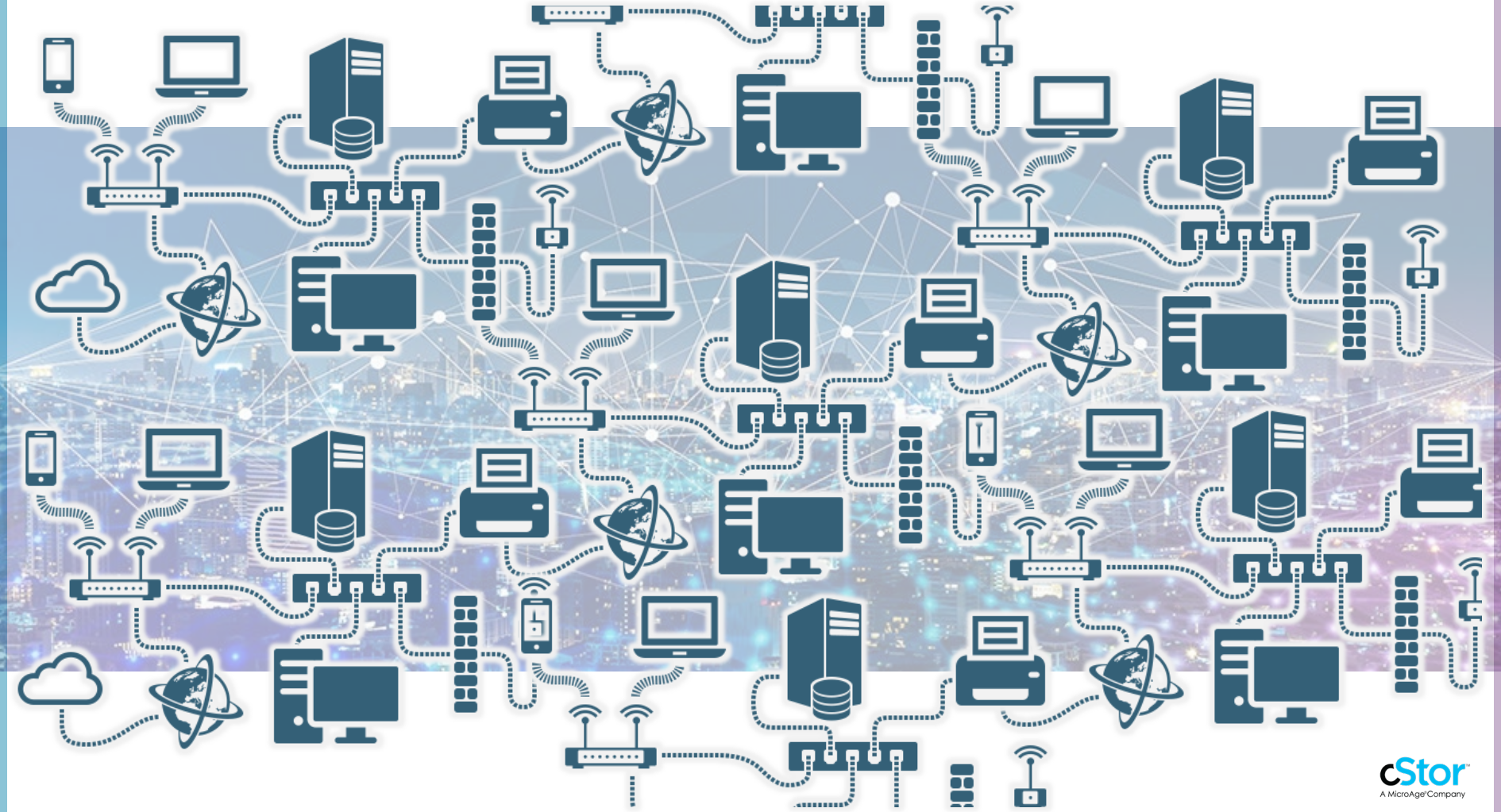
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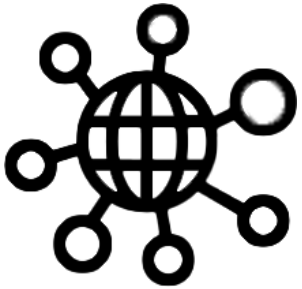
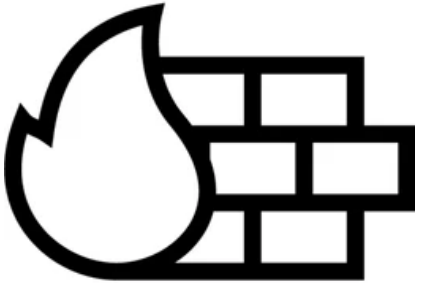
How to Enforce Micro-Segmentation



Network Fabric

Hypervisor

End Point Agent



NGFW

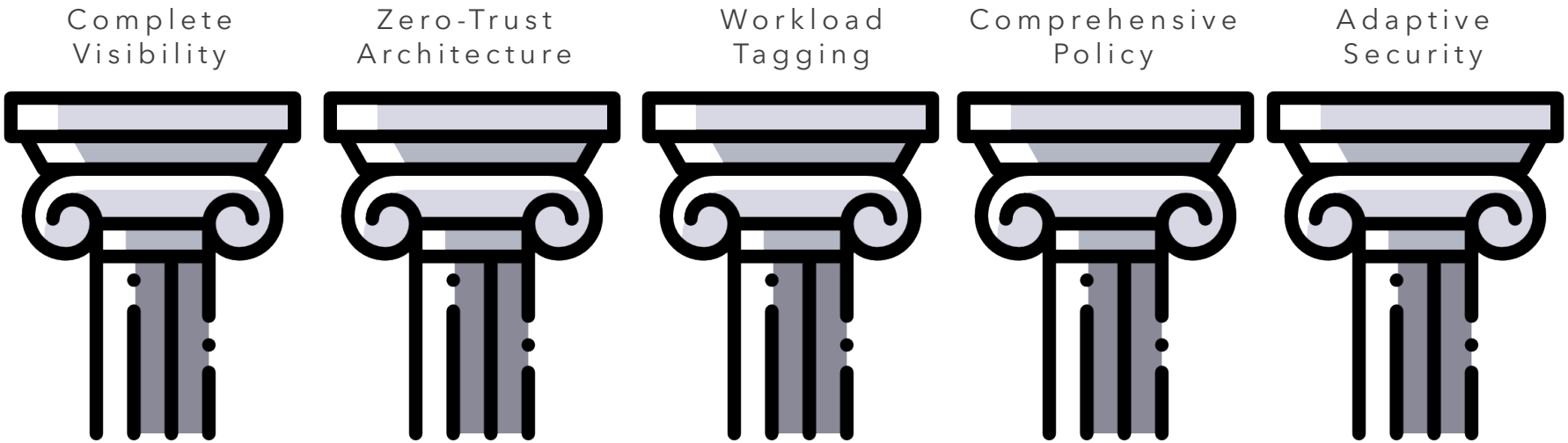
Where to Enforce Micro-Segmentation

Micro-Segmentation through	Traditional DC	Software Defined DC	Public Cloud
Network Fabric	Yes	Yes	No
Hypervisor	No	Yes	No
Agent	Yes	Yes	Yes
NGFW	Yes	Yes	Yes

What to Enforce with Micro-Segmentation

Micro-Segmentation through	Layer 2-4 Visibility	Layer 7 Visibility	Identify and Prevent Threats
Network Fabric	Yes	No	No
Hypervisor	Yes	No	No
Agent	Yes	No	No
NGFW	Yes	Yes	Yes

The 5 Pillars of a Strong Micro-Segmentation Strategy



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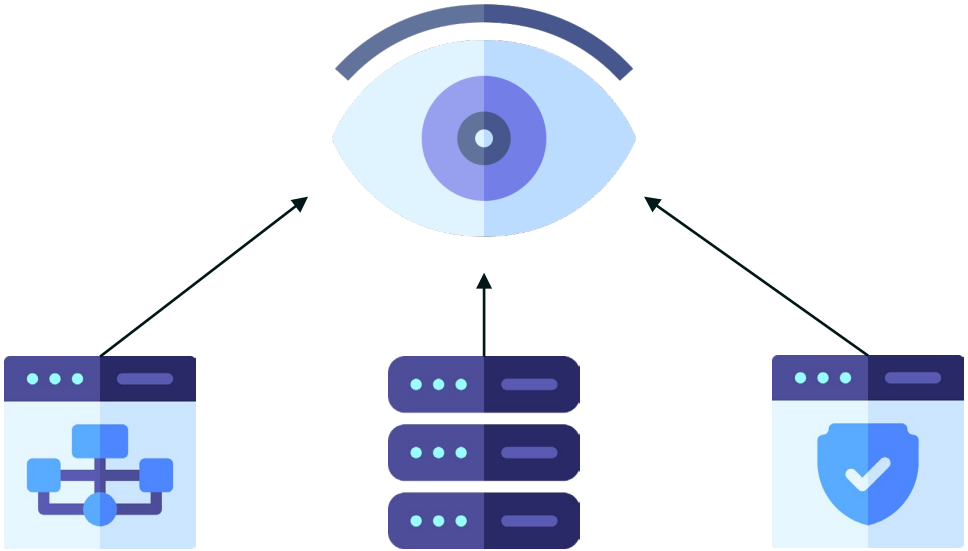
Complete Visibility

Create and maintain complete visibility of
both North-South and East-West traffic flows.



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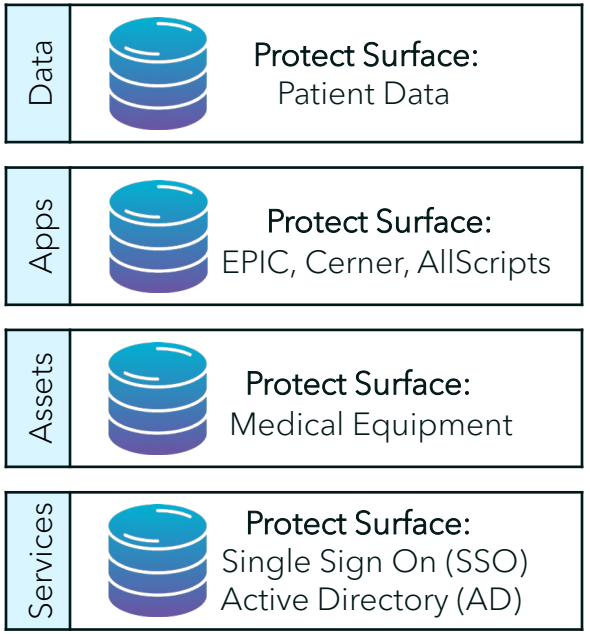
Zero-Trust Architecture

- Define the Protect Surfaces
- Identify where the Protect Surfaces exists
- Discover and classify data, applications, assets, and services
- Prioritize based on value of the protect surface, compliance requirements, and relationship to the application owner
- Connect the Protect Surface to segmentation gateways
- Zero Trust model: Implicit “Deny All”



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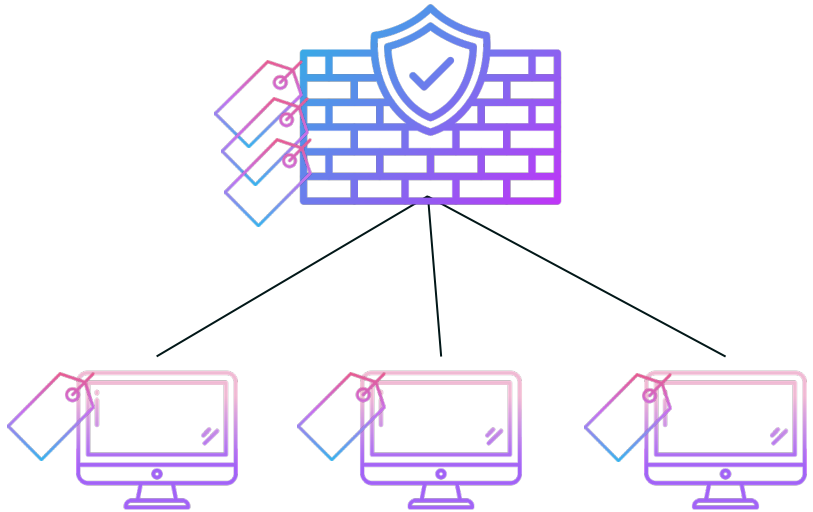
Workload Tagging

- Decouple security policies from network constructs (VLAN/VRFs)
- Have a strategy to tag the existing and new application workloads
- Common tag categories

Category	Example Values
Role	Web, App, DB Server
Application	SCADA, EPIC, HR, Sales
Classification	Level-1, Level-2, Secret
Compliance	PCI, HIPAA
Environment	Dev, Test, Production
Location	AZ-DC, WA-DC, EUR-DC



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Comprehensive Policy

- Micro-Segmentation is more than just a “distributed network ACL”
- SECURITY (Micro-Perimeter) >= SECURITY (Perimeter)
- A well-defined segmentation policy must address ***who, what, when, where, how***

Who	What	When	Where	How	Action
User-ID	App-ID	Time	System Object	Content-ID	Allow/Deny
Sales	Salesforce	Working Hours	US	AZDC_CID	Allow
Epic_Users	Epic	Any	Epic_Svr	Epic_CID	Allow

Adaptive Security

Granular log filtering

- Threat Prevention logs
- Malware and phishing logs
- Correlated Event logs
- System logs
- Data Filtering logs

…

PHX-DBSrv01

AUTO-TAG

Filters

Automated actions on the NGFW

Compromised

Policy	Source	Action
Compromised hosts	Dynamic Address Group	Enforce multi-factor authentication

Automated actions on third party systems

- Servicenow
- NSX
- Any REST API

Advice for Success

- You cannot protect what you can not see
- Segment in phases, balance manageability vs. segmentation
- Utilize all the correct tools in harmony together
- Never settle on security, layer 3 and layer 4 does not equal layer 7!
- Partner with application, server, network and security teams to define the process
- View a demo of the experience and process and get advice how to incorporate it into your own environment


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Questions?

UPCOMING EVENTS
in the Cyber Wise Tour

Aug 3:	Webinar: 2022 Threat Brief: Insights from the Cyber Frontline
Aug 17:	Webinar: Why So Much Critical Data Is Being Compromised
Sept 8:	LIVE Event: Phoenix Cybersecurity Panel Discussion
Sept 22:	LIVE Event: Las Vegas Cybersecurity Panel Discussion

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Thank You