

## **Good Al Gone Bad**

**A Zero Trust Story** 



Michael Adjei

Director, Systems Engineering

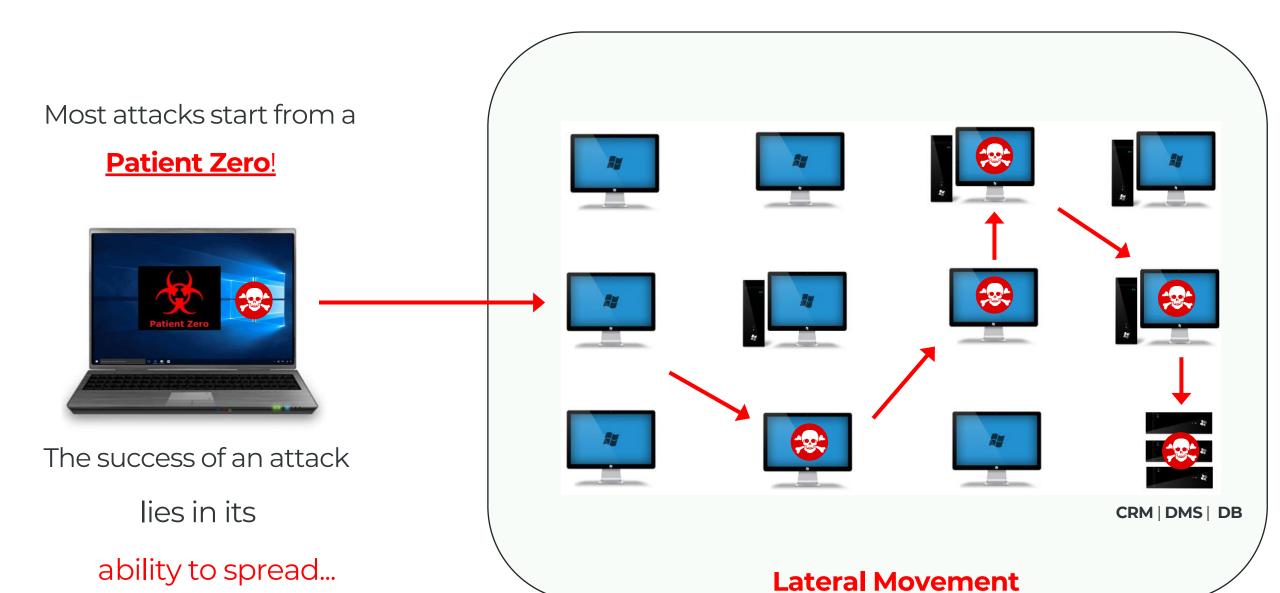


## **Risks Today**



Open risks lead to successful attacks! **OT and IoT Home Office Cloud Services IoT Device** SaaS Apps **Company-owned Device Partners Customers Partner Device Identities On-premises Remote Employees Personal Device Multicloud** 





**EVENTS** 

PODCASTS

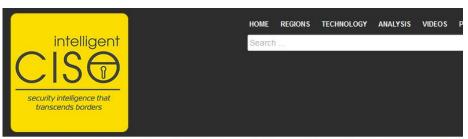
RESEARCH

Ransomware

## New BlackCat ransomware variant leverages Impacket for lateral movement

Steve Zurier August 18, 2023





Expert says CISOs need to take lateral movement seriously 1364478575

CISOs are faced with the challenge of their enterprise-level environments being vulnerable to lateral movement in their networks. Carolyn Crandall, Chief Security Advocate and CMO at Attivo Networks, says most CISOs are familiar with the role lateral movement plays in attacks, but organisations need to back up this knowledge with action.



### Conti Ransomware Hitting VMware vCenter With Log4j **Exploit**

BY MICHAEL NOVINSON >

DECEMBER 17, 2021, 02:02 PM EST

'[The] Log4j2 vulnerability appears ... for Conti at the moment when the syndicate has both the strategic intention and the capability to weaponize it for its ransomware goals,' says AdvIntel in a security advisory.



Conti is pursuing lateral movement on vulnerable Log4j VMware vCenter servers, making them the first major ransomware gang revealed to be weaponizing the massive bug.

## The Hacker News

**Data Breaches** 

Cyber Attacks

**Vulnerabilities** 

Webinars

### Wanted Dead or Alive: Real-Time Protection Against Lateral **Movement**

may 01, 2023 The Hacker News

Cyber Threat / Authentication

Just a few short years ago, lateral movement was a tactic confined to top APT cybercrime organizations and nation-state operators. Today, however, it has become a commoditized tool, well within the skillset of any ransomware threat actor. This makes real-time detection and prevention of lateral movement a necessity to organizations of all sizes and across all industries. But the disturbing



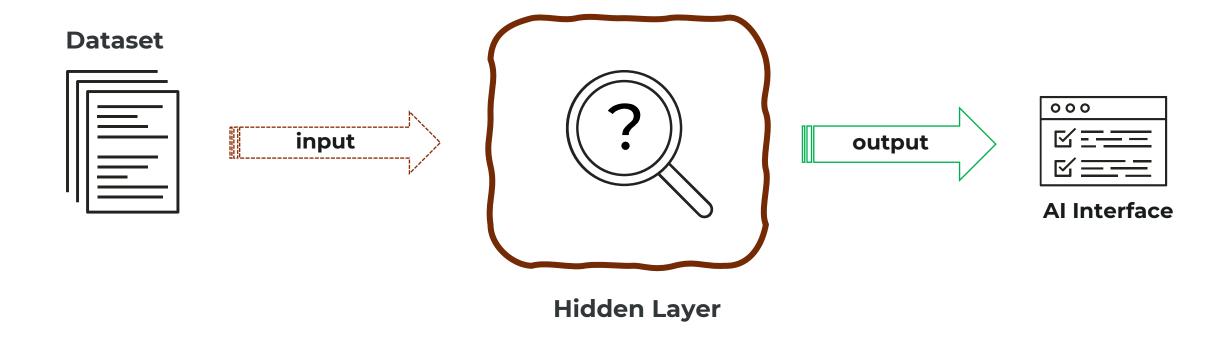




## Al Amplifies the Risk



## Al Deep Learning - Artificial Neural Network







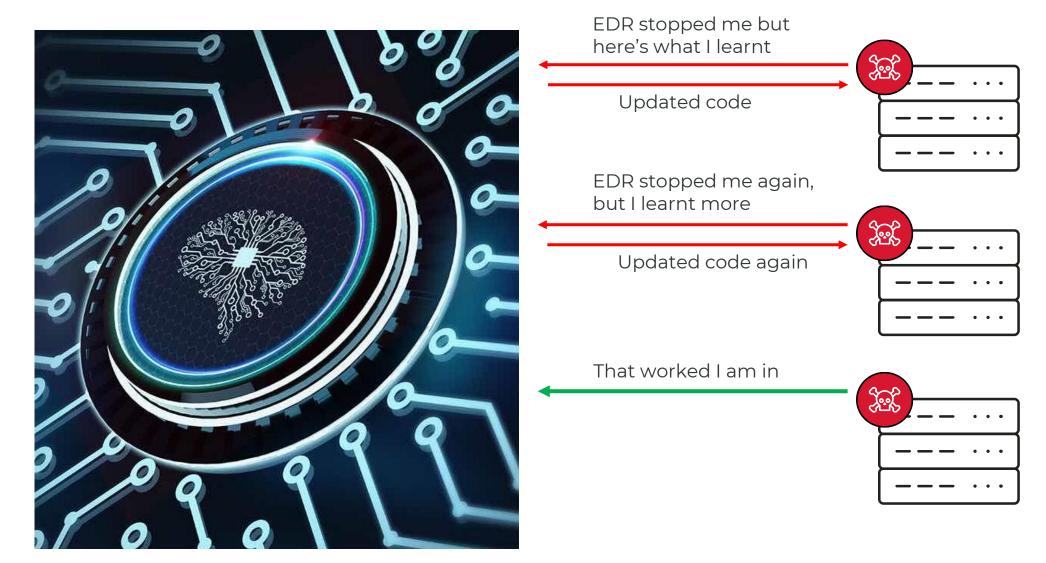
Cybersecurity

## Researchers from UIUC reveal GPT-4's capability to autonomously exploit real-world vulnerabilities

- Recent research highlights OpenAI's GPT-4's ability to autonomously exploit real-world security vulnerabilities by analyzing CVE advisories.
- GPT-4 outperforms other models and open-source vulnerability scanners, showcasing an 87 percent success rate in exploiting critical vulnerabilities.
- The study underscores the significance of transparent information sharing in cybersecurity, dismissing reliance on security through obscurity.
- Despite encountering challenges with certain vulnerabilities, GPT-4 demonstrates adaptability and generalization capabilities, even beyond its training data.
- Cost-effective and efficient, GPT-4's estimated expense for a successful exploit stands at \$8.80 per attack, significantly lower than traditional penetration testing costs.



## **Real-time Morphing Possibility**





# The answer is **NOT** necessarily more Al

## Get the basics right:

- Reduce the learning surface
- Control access to resources
- Contain an attack
- Recover securely

The answer is Zero Trust







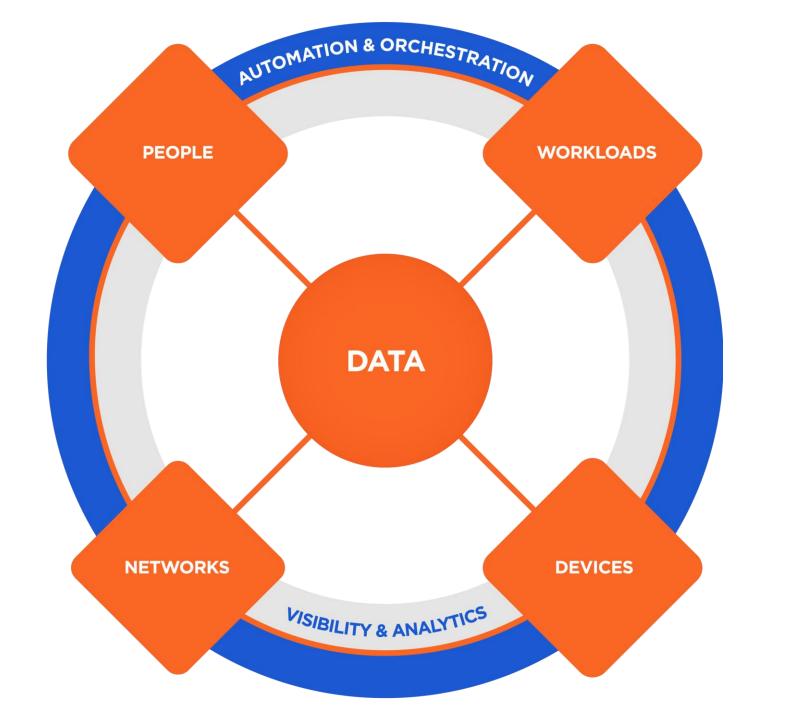
## Addressing the Risk



## Zero Trust

A strategy designed to **stop data breaches** and prevent cyberattacks from being successful by **eliminating implicit trust** from digital systems.









## The bad guys will always find a way in!

# So, every organization needs a cyber containment strategy!

(Cyber & Operational Resilience)





# The ability to absorb potential disruptions while continuing to meet service level objectives.

**Gartner Cyber Resilience Framework** 





## **Containment Strategy**

Cyber & Operational Resilience



## **Defence In-depth**



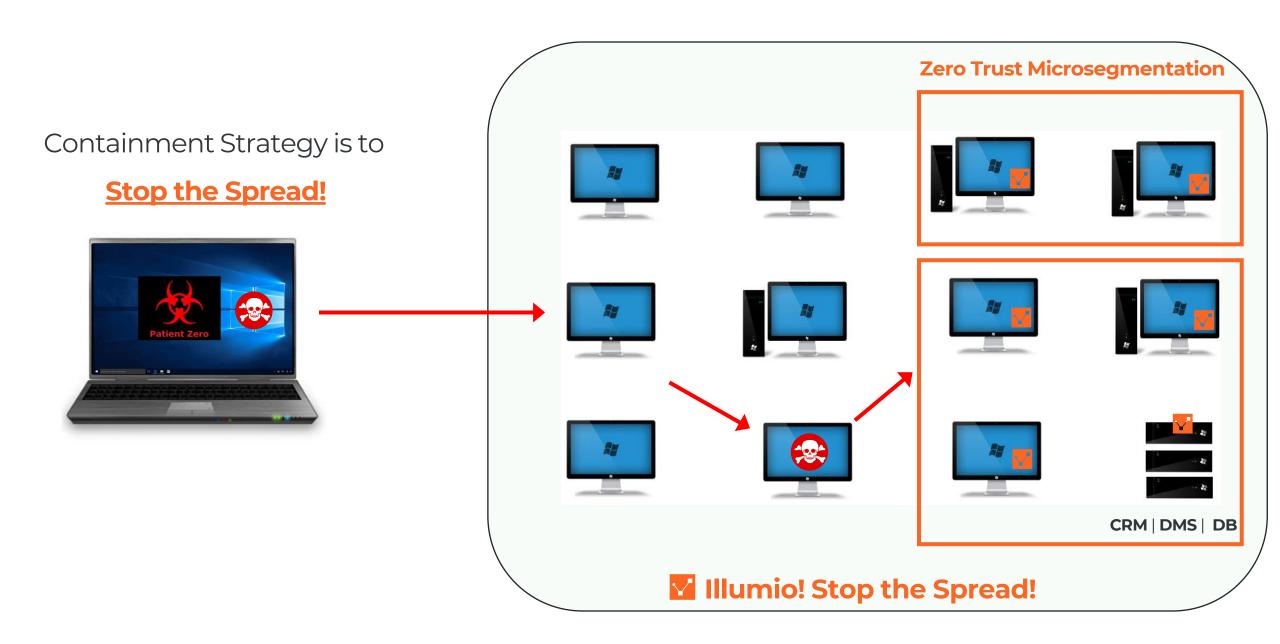
Protections against how an infection starts

and

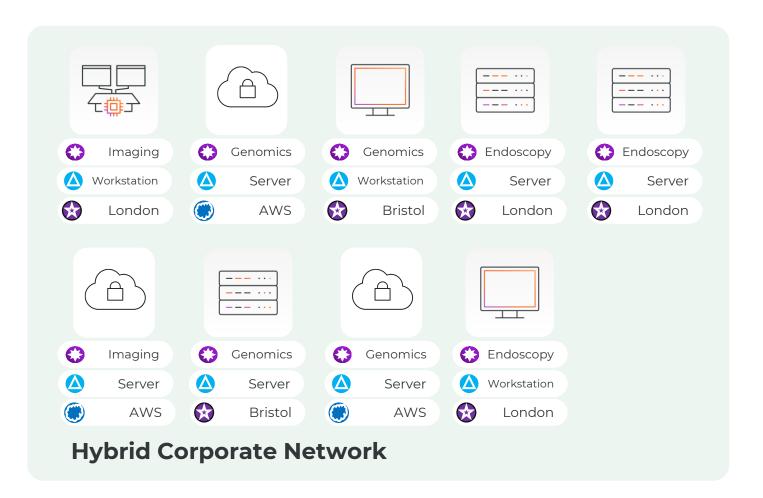
Protections against how an infection spreads!

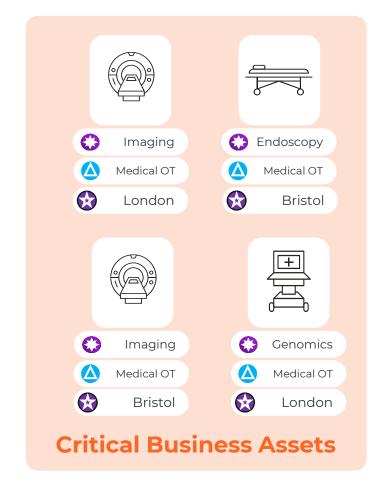






## **Protect with Context - Critical Business Assets**









## **Practical Zero Trust**



## How does the ZTS platform do it?

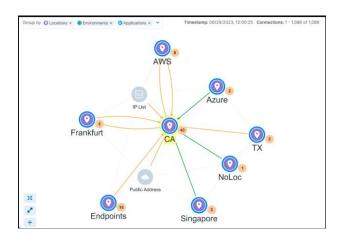
### **Identify Assets**



Asset Inventory

(Know what you have)

### See Risk



A Map

(Know what they do)

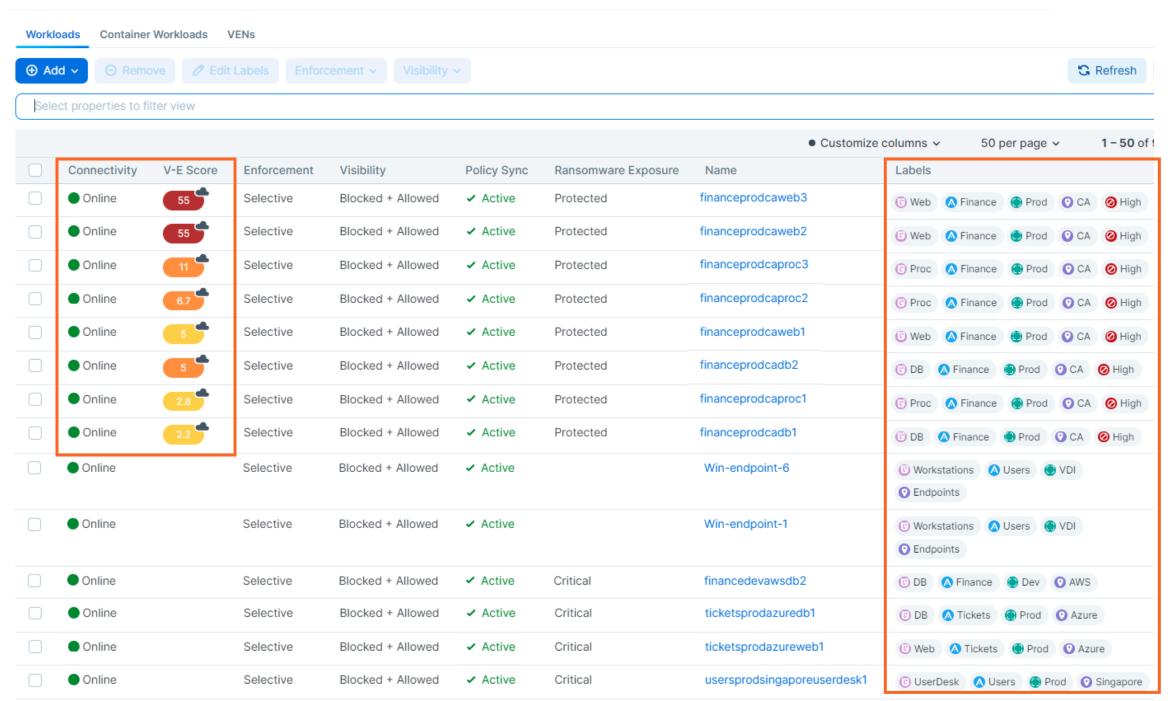
### Contain Risk



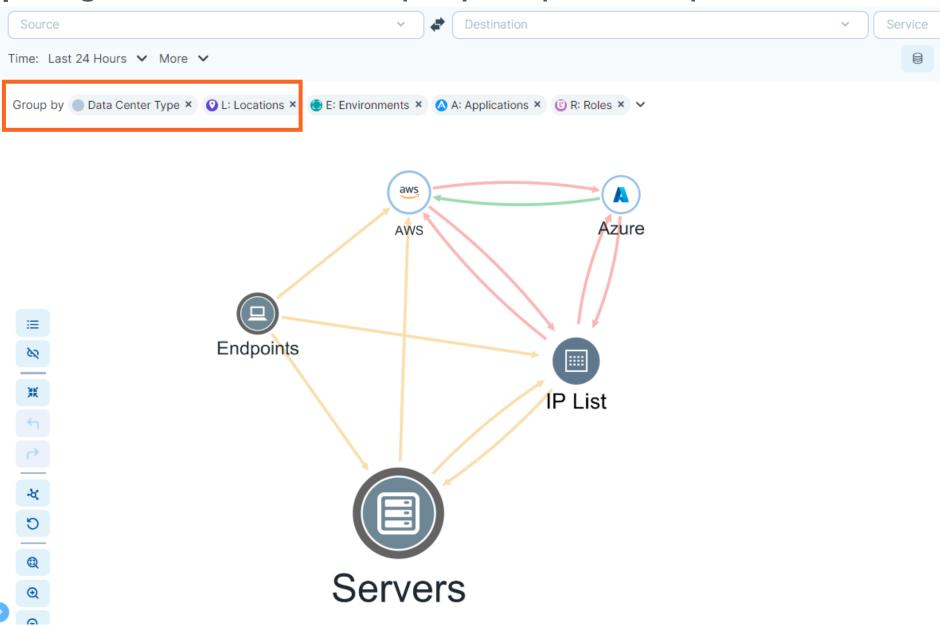
Intelligent Policy

(Know how to protect them)

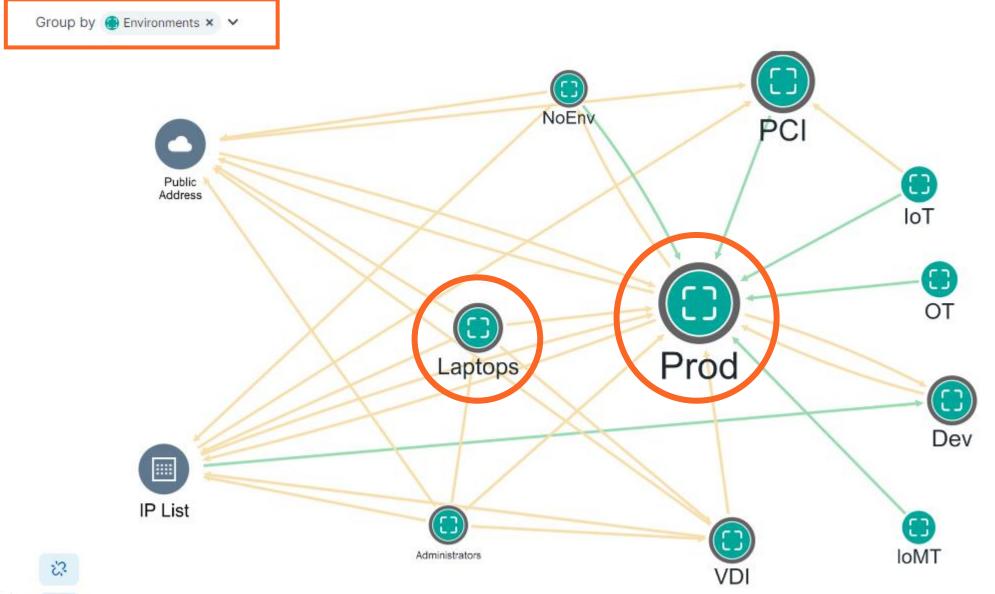
### Workloads



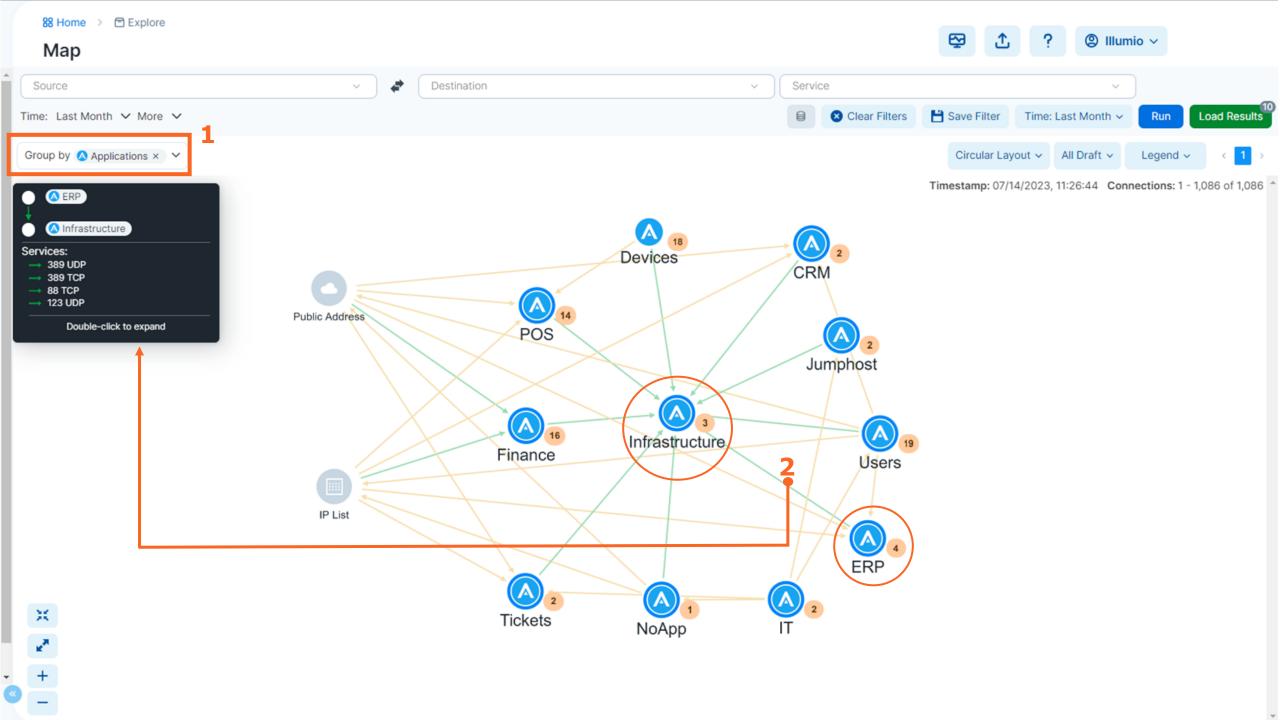
## Map – Single Pane of Glass - Servers | Endpoints | Containers | Cloud



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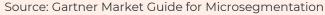
Policy Data v



## 2023 Gartner **Market Guide for Microsegmentation**

Zero Trust, risk of lateral movement and hybrid environments are driving adoption.

Gartner sees interest across all verticals, geographies, and company sizes.



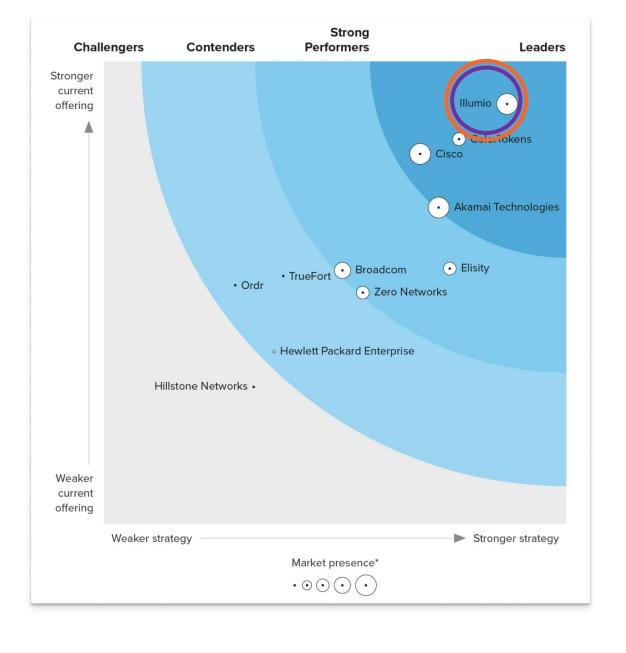




# Illumio Named a 2024 Forrester Wave Leader in Microsegmentation

The Forrester Wave™:

Microsegmentation Solutions, Q3 2024













## Thank you

