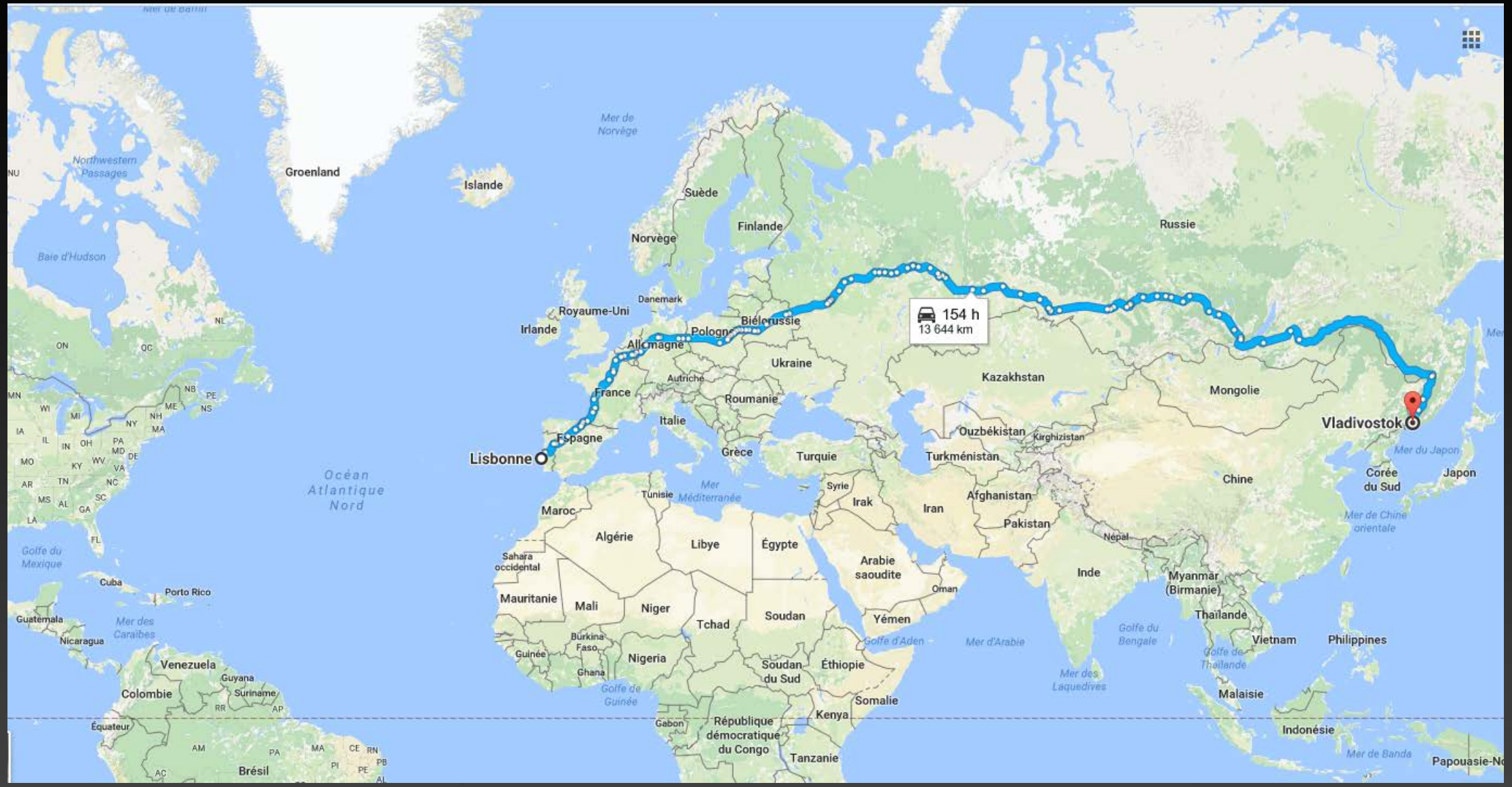
Stop Taking a Reactive Approach to Network Security

Ondrej Stahlavsky

Regional Director CEE

FORTINET SECURITY FABRIC

Lisbon - Vladivostok



Lisbon - Vladivostok

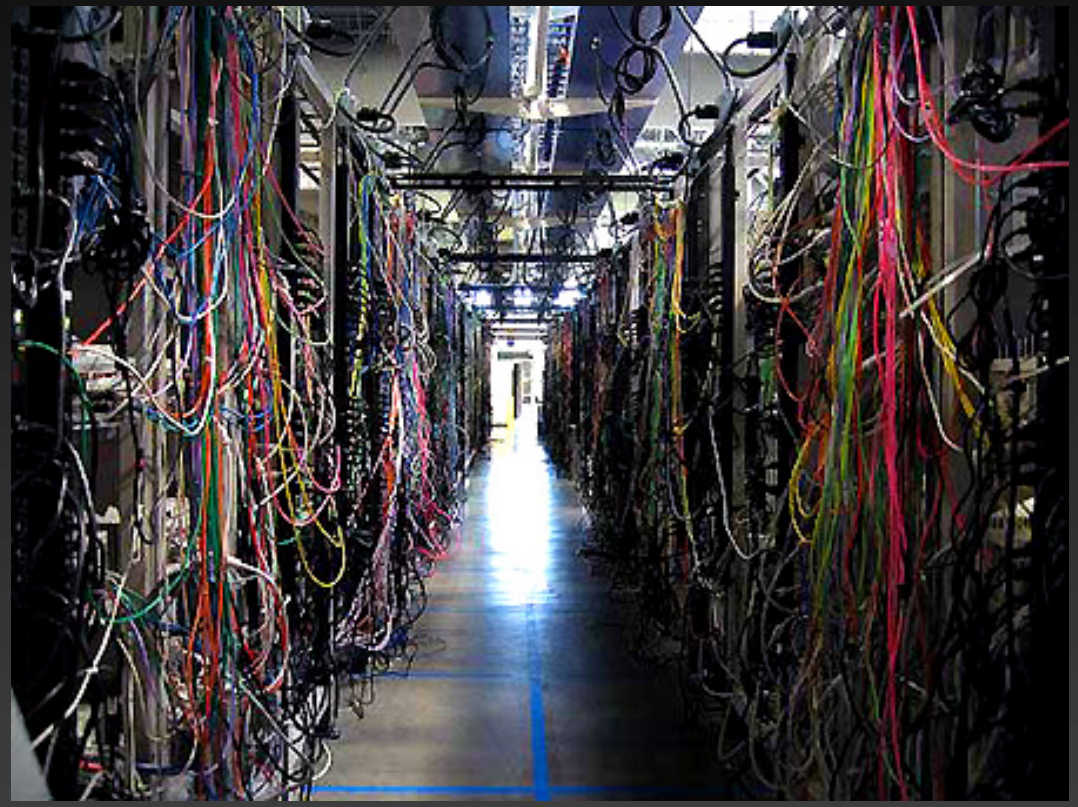
How Would You Do It?

- Improvise!
  - » Pack a bag
  - » Get a GPS (no one uses maps anymore)
  - » Hope for the best

- Plan, Plan and Plan some more
  - » Ask yourself the question “Why do I want to do this?”
  - » Advance research
  - » Plan for every contingency

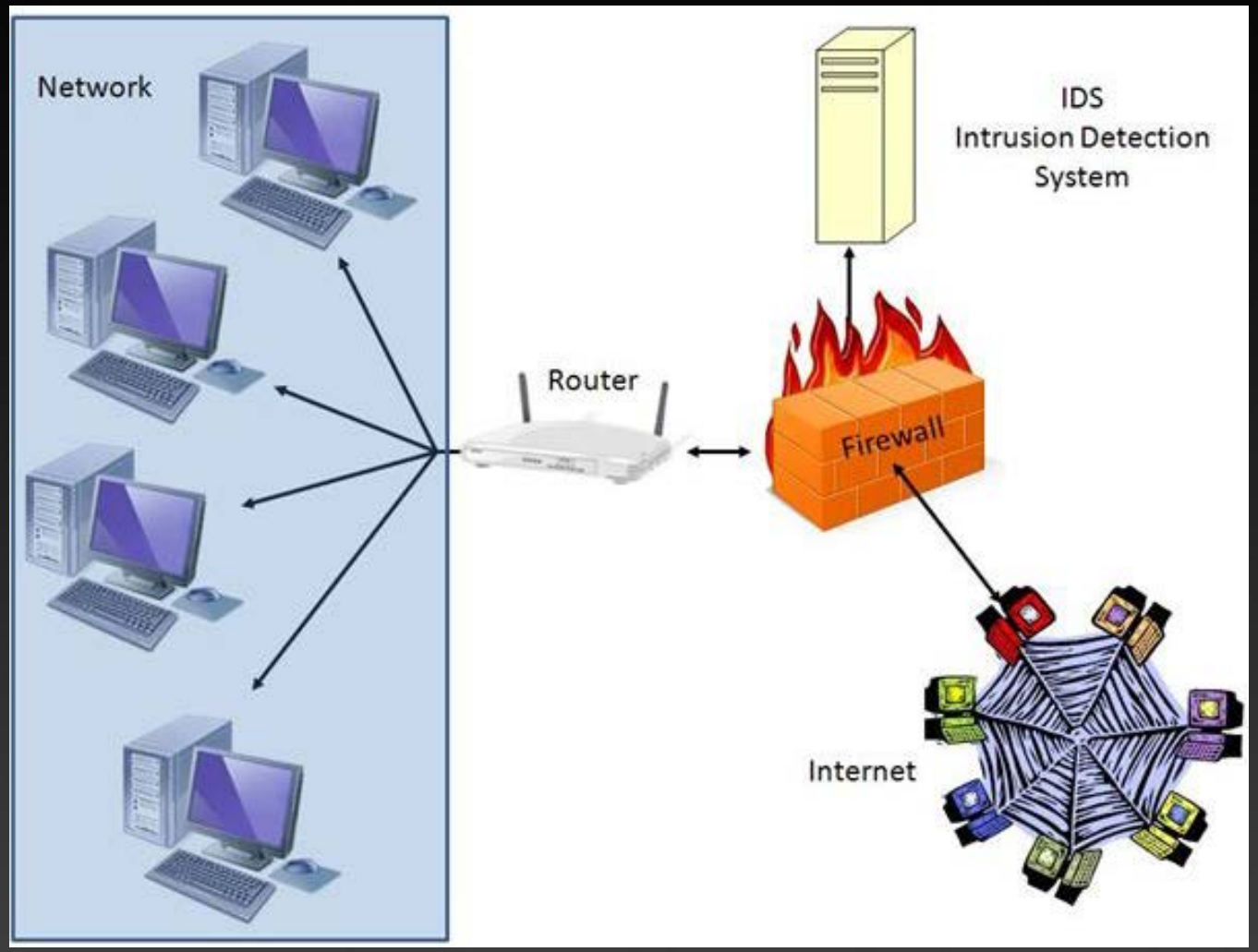
The Same Applies When Planning a Network

- Improvise!



- Plan, Plan and Plan some more

Why Does Security Planning Fall Short of the Mark?



What is Your Key Criteria for Network Security?

What is Your Key Criteria for Network Security?

Issue #1 - Where Do Those Choices Leave You?

COMPLIANCE ≠ SECURITY

Enterprises spend too much time and effort ticking boxes on a list.

BACKWARD LOOKING

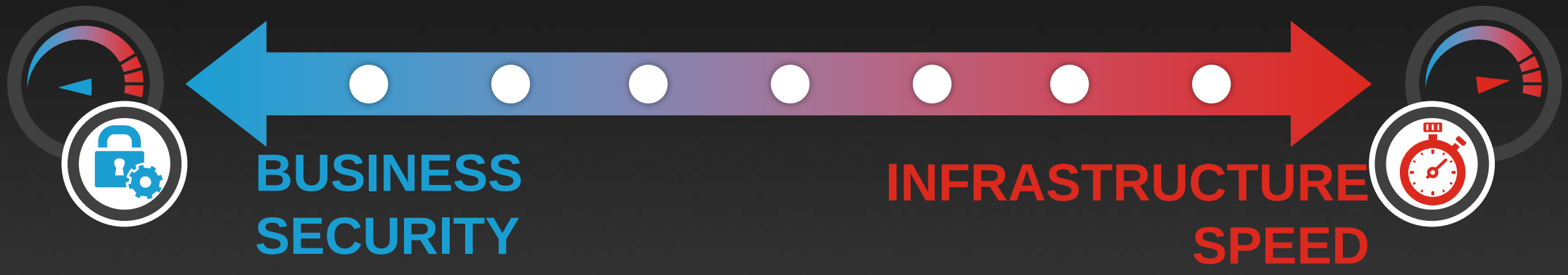
Taking a reactive approach only addresses known threats, not the unknowns.

TOO MUCH

Too many different vendors whose products do not communicate with one another.

Issue #2 - The Network Perimeter is Dissolving

Issue #3 - Which Compromise Do You Make?



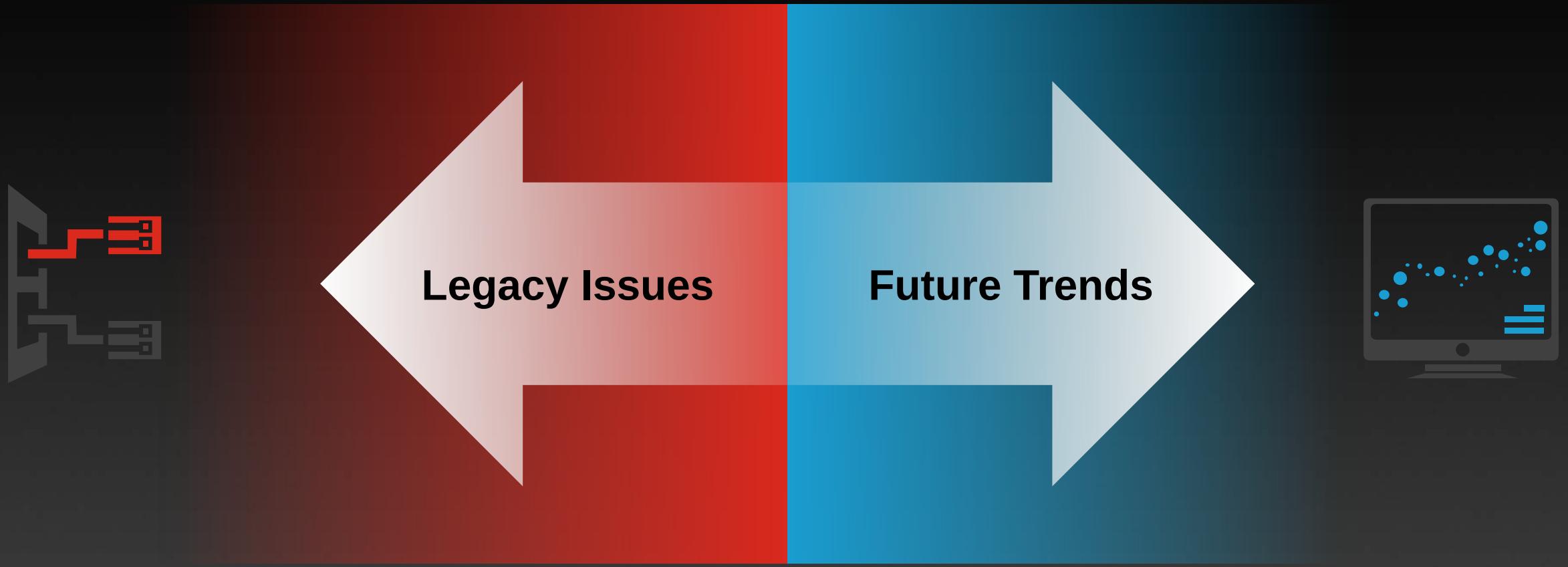
The End Result - Key Incidents discussed in 2016

SWIFT

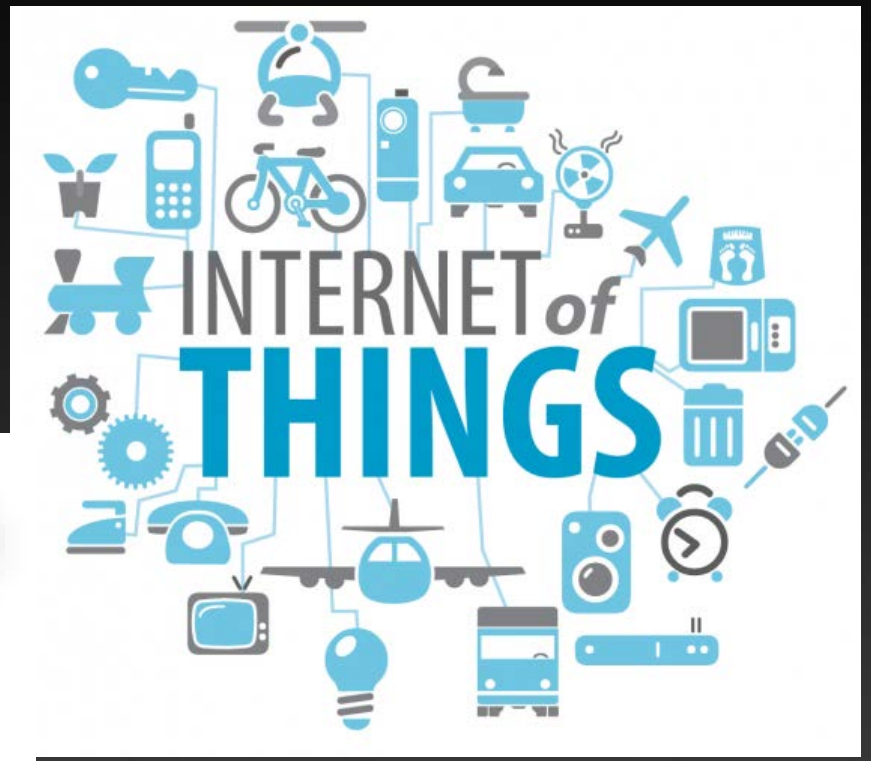
UKRAINE

RANSOMWARE

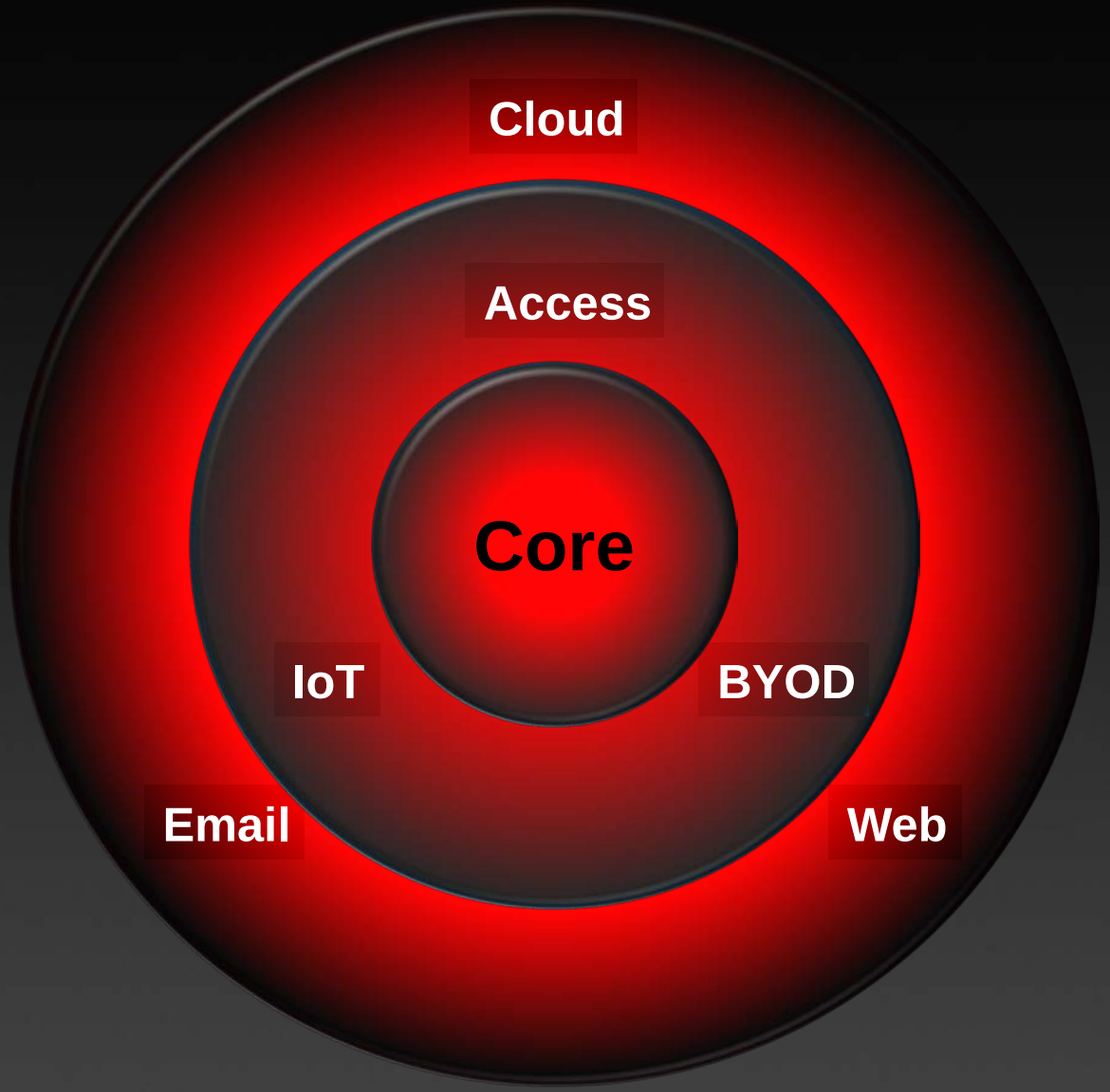
The Impossible Challenge?



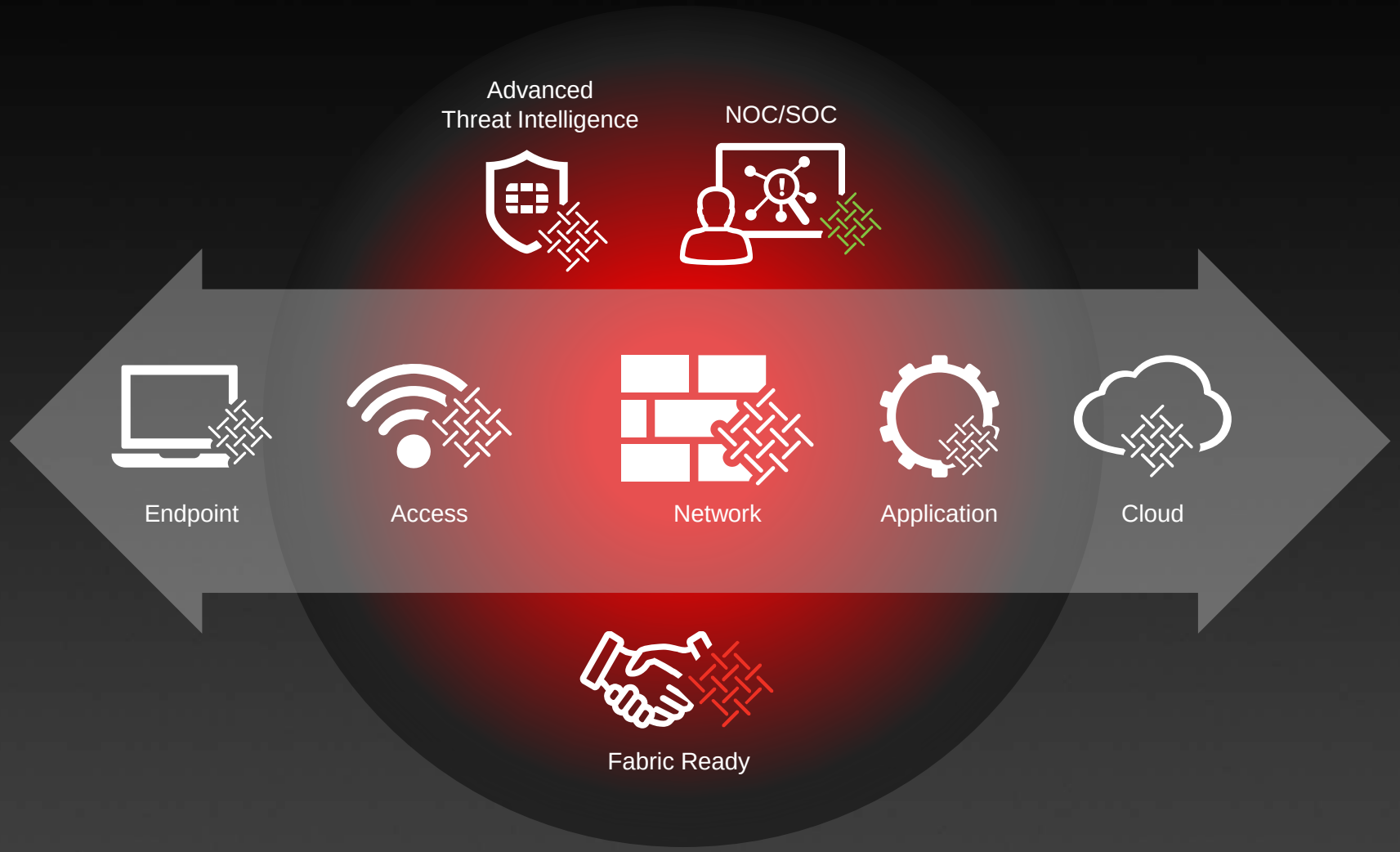
Top 3 Top of Mind Issues



What's Needed is a Philosophy, Not Another New Product



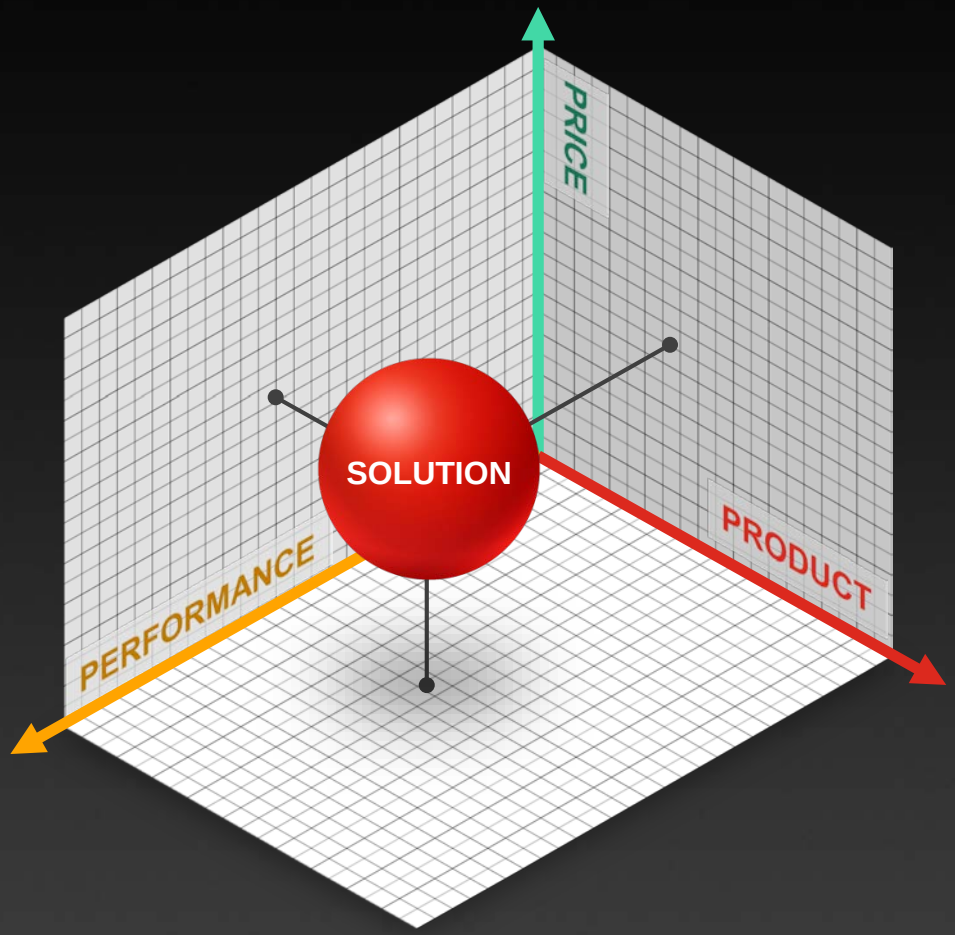
Fortinet Security Fabric



- **Scalable**
- **Aware**
- **Secure**
- **Actionable**
- **Open**

Key Attributes

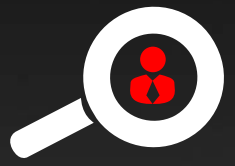
The Three Ps of Scalable



Key Attributes

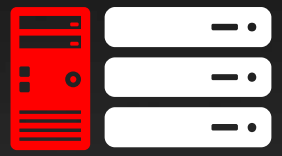
A Learning Mode – Combating Complexity

USER IDENTIFICATION



Who is connected?

DEVICE IDENTIFICATION



What devices do we have?

PHYSICAL TOPOLOGY

How are they connected?

NETWORK & APPLICATION TOPOLOGY

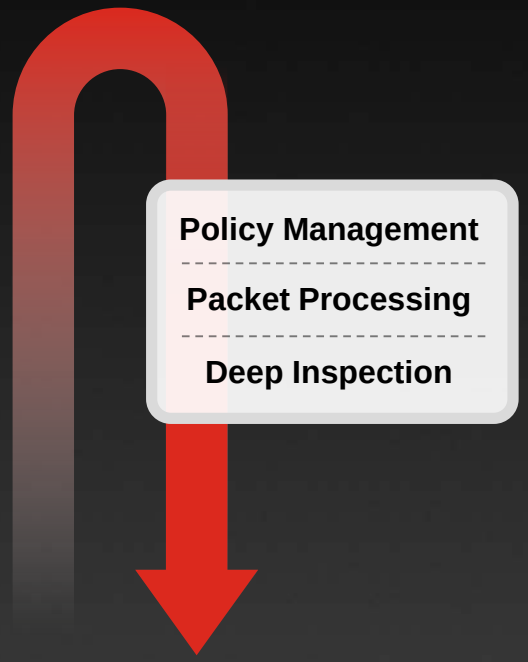
What Policies do we need?

MONITOR AND LEARN

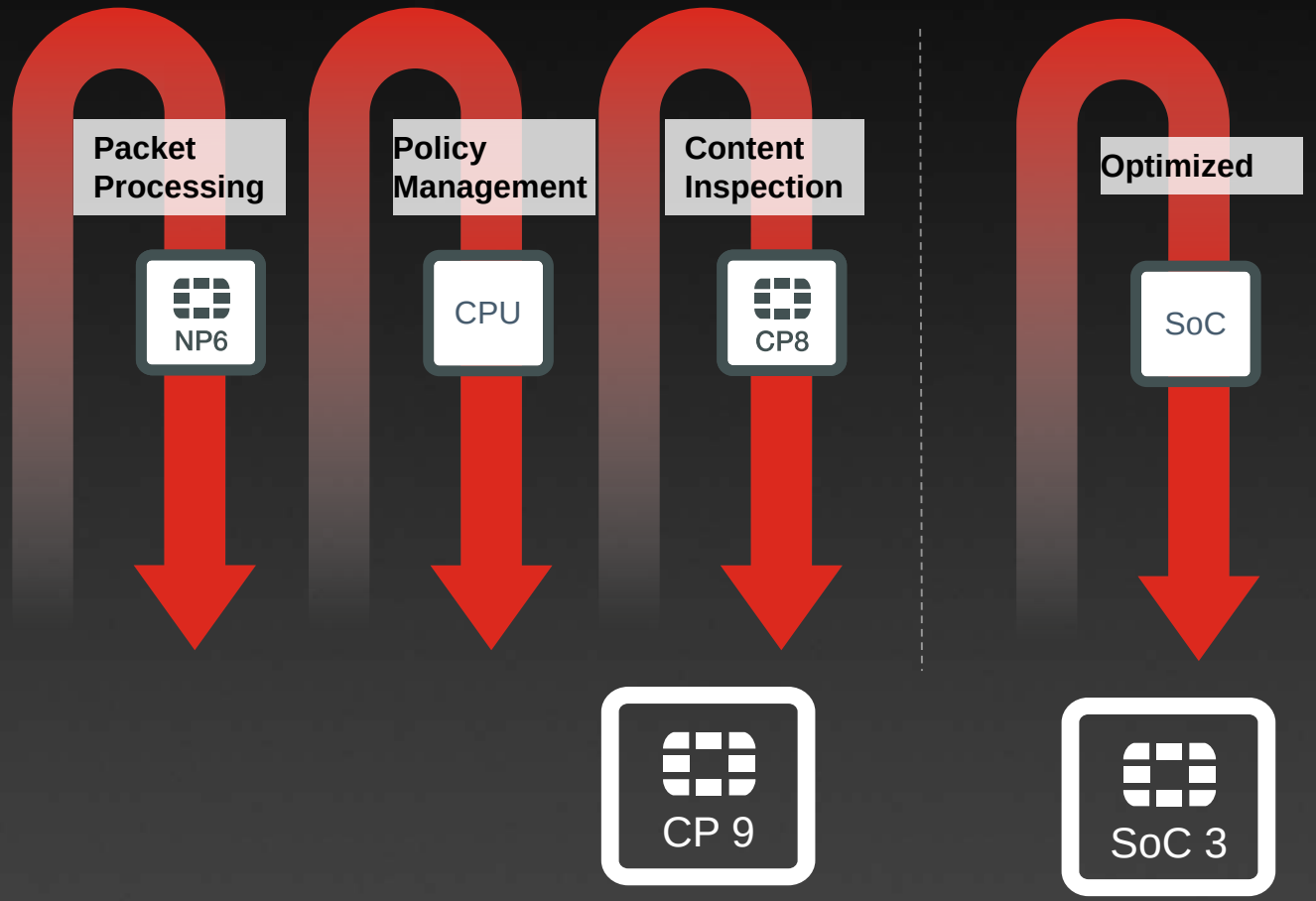
Key Attributes

Security Starts with Performance

CPU Only



Parallel Path Processing (PPP)



More Performance

Less Latency

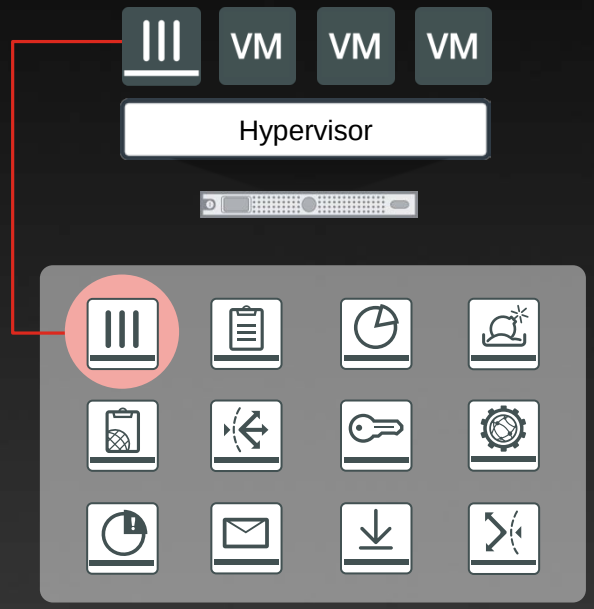
Less Space

Less Power

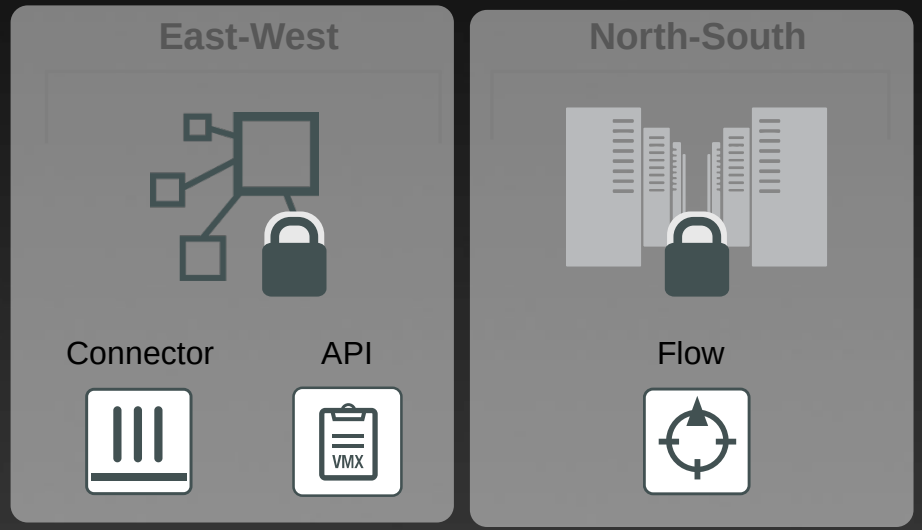
Slow is Broken

Security For the Virtual World

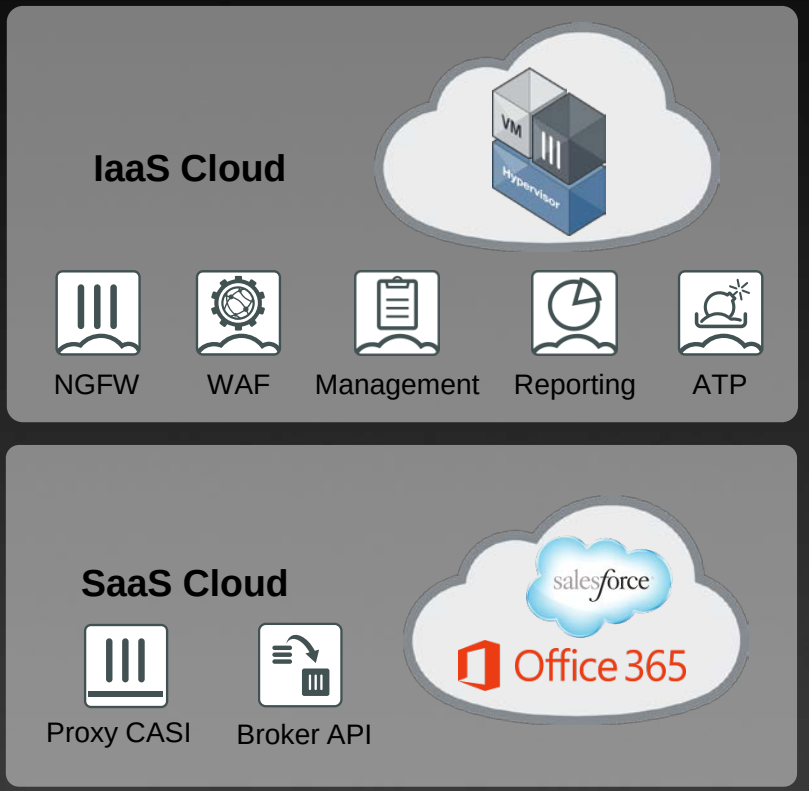
VIRTUALIZATION
Hypervisor Port



PRIVATE CLOUD
SDN - Orchestration Integration



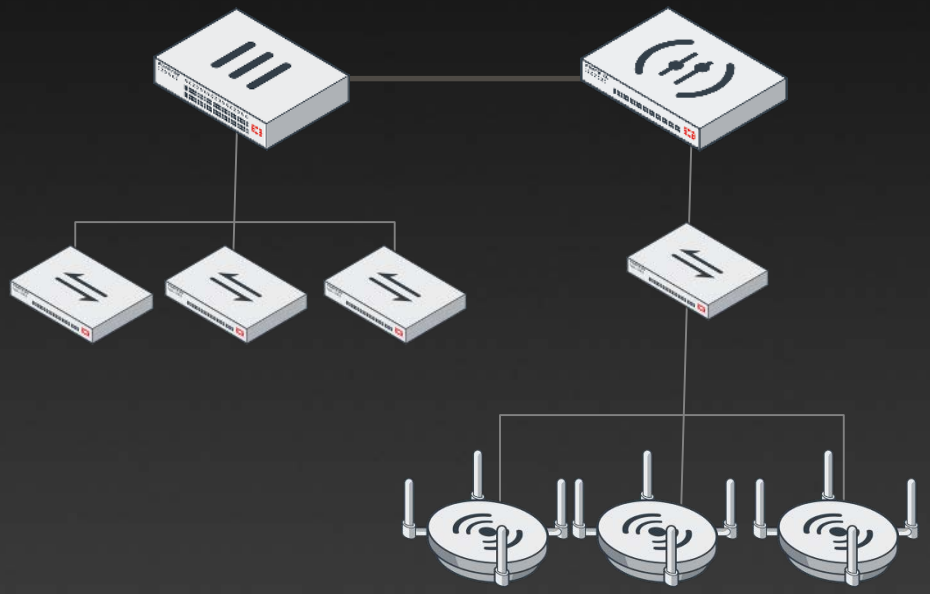
PUBLIC CLOUD
On-Demand



Secure Access For All Applications and Users

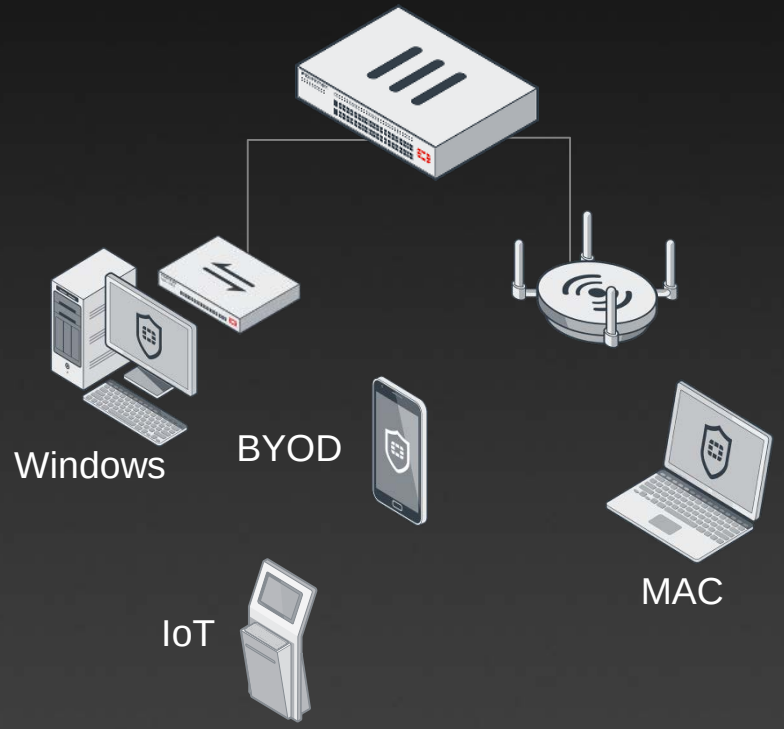
Large Scale Wireless Deployment

- Increased scalability and reach



Integrated Deployment

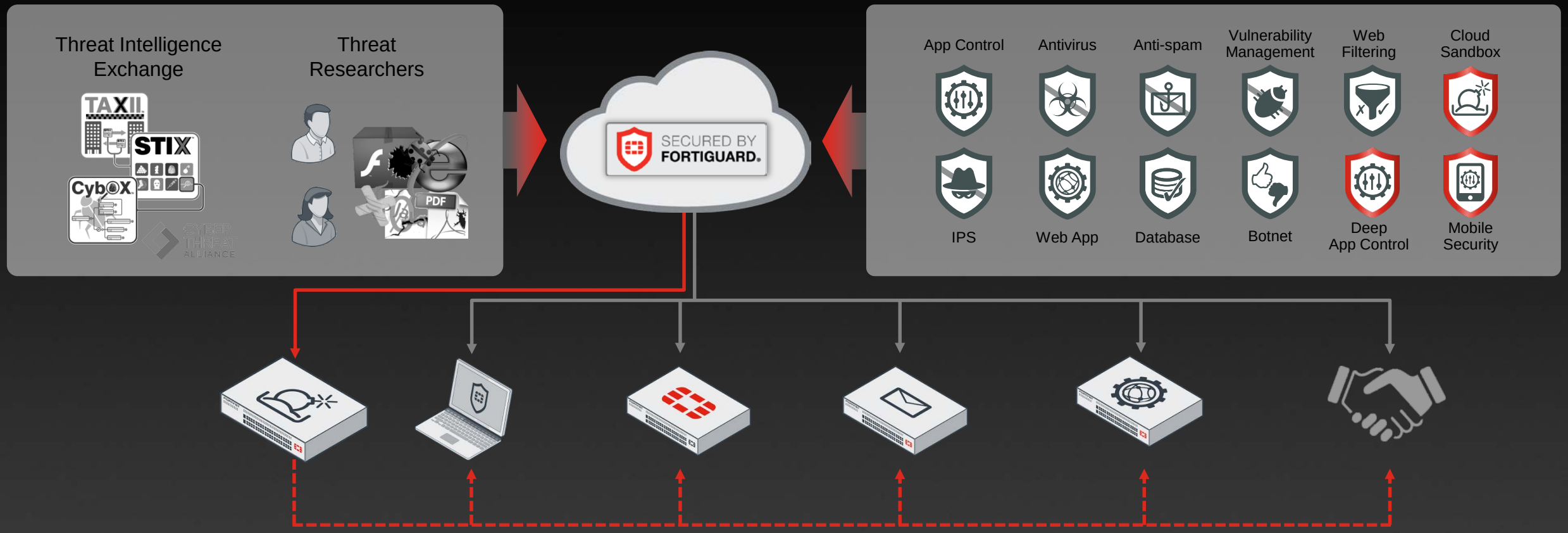
- “All in one”



Micro-site Deployment

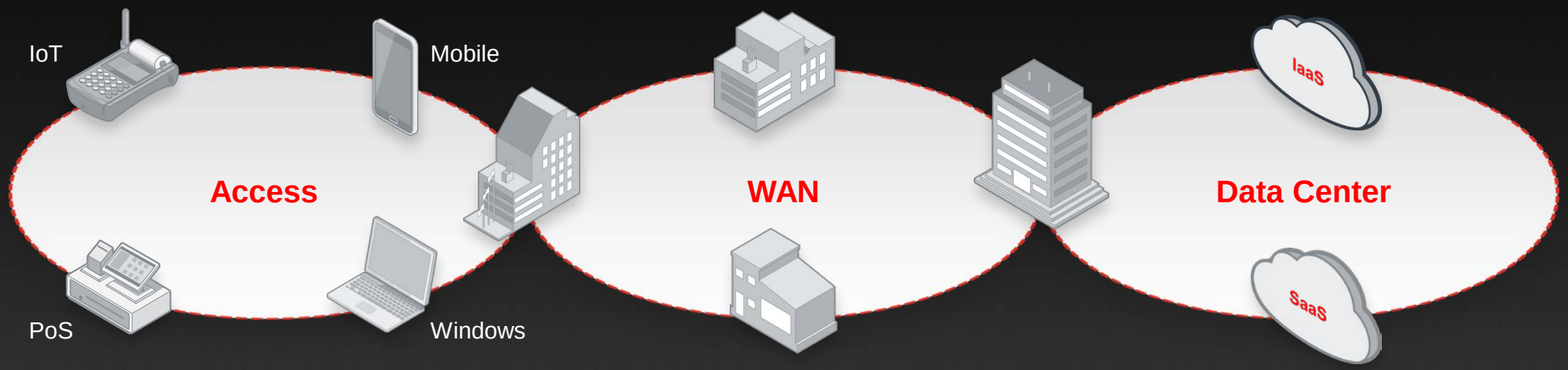
- Push security to the AP

Unified With a Single Source of Threat Intelligence



Key Attributes

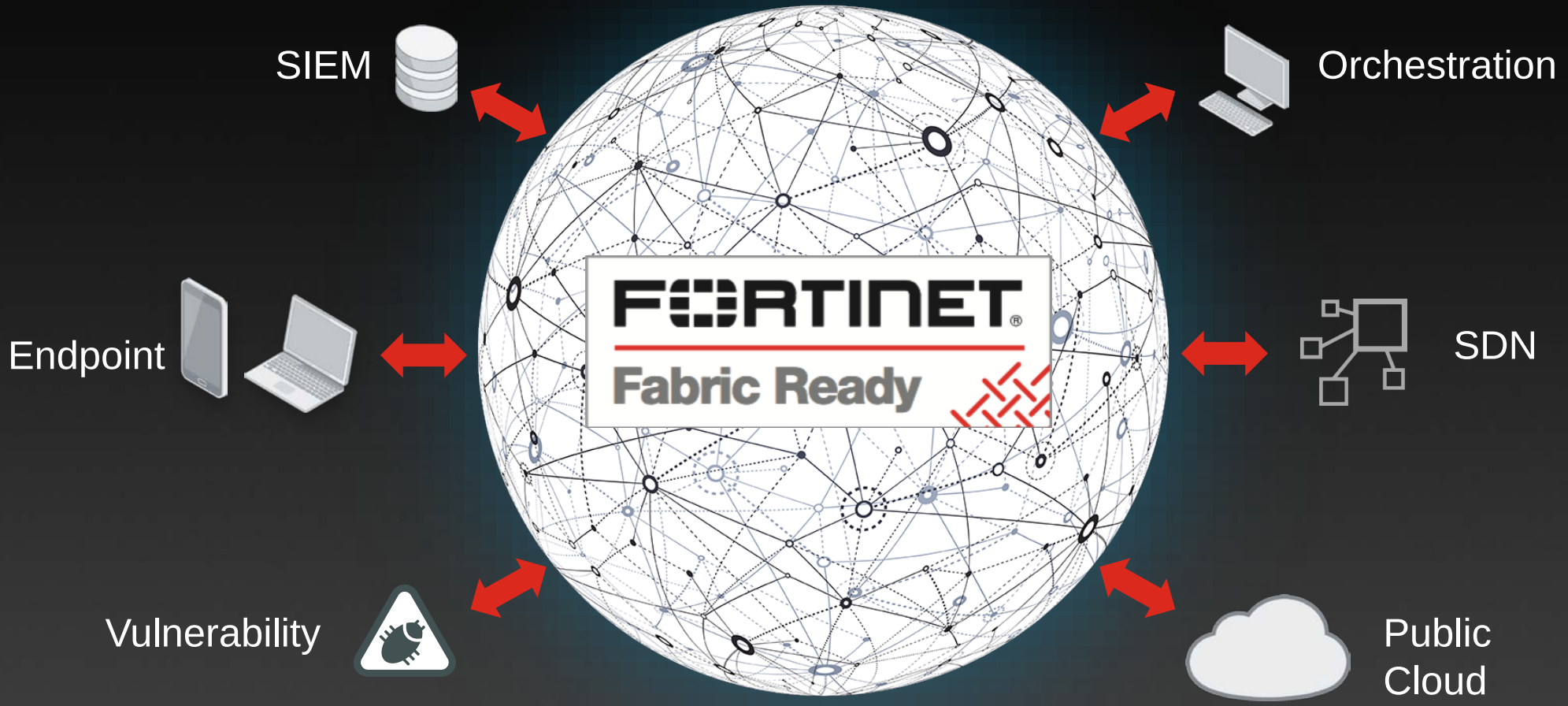
Actionable Across All of the Whole Network



Support Services	Single Pane of Glass	Migration to Cloud Based Systems

Key Attributes

Open – Wherever, Whenever, Whatever



In the End, What Does it Do?

PROVIDES A FRAMEWORK FOR MEETING TODAY'S AND TOMORROW'S SECURITY CHALLENGES

BRINGS THE POWER OF THREAT INTELLIGENCE THROUGHOUT THE NETWORK

ENABLES COLLABORATION AND AN EVER GROWING ECOSYSTEM

FORTINET