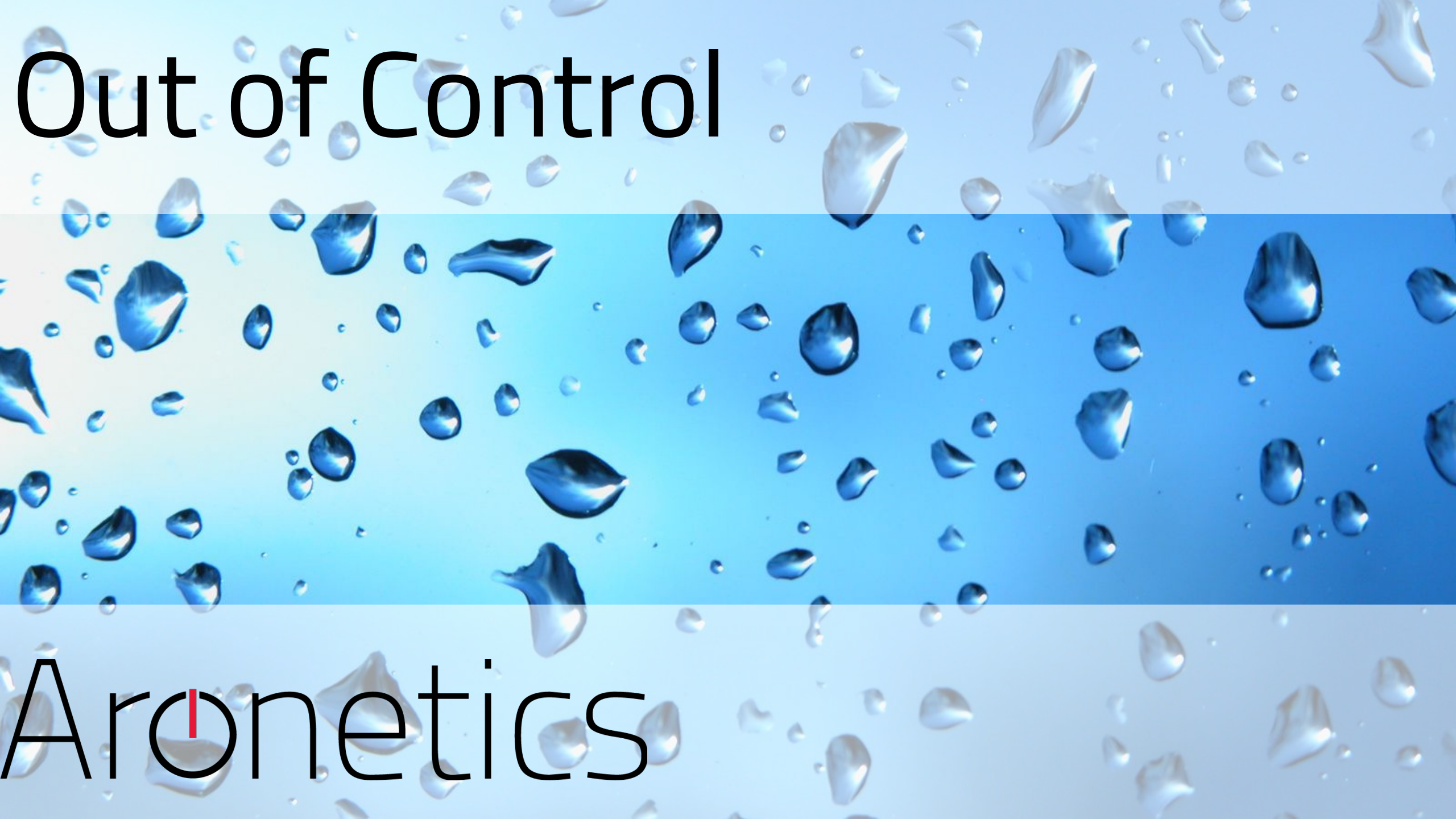

Out of Control
Aronetics

Who is Aronetics?

THOR



Marriott


The Vanishing Network Perimeter


PERSONAL
NAME AND DATE OF BIRTH
SOCIAL SECURITY NUMBER
HOME ADDRESS
WORK AND EDUCATION INFO
FAMILY AND FRIENDS
LIKES AND INSTERESTS
BEHAVIORAL
LOGIN PATTERNS
BROWSER HISTORY
FREQUENT LOCATIONS
YOU
FINANCIAL
CREDIT CARDS
BANK ACCOUNTS
DIGITAL WALLETS
ONLINE PAYMENTS
NETWORK
IP ADDRESS
HTTP HEADERS
BROWSER COOKIES
UNIQUE DEVICE IDENTIFIERS
FREQUENTED NETWORKS
okc

ONLY 21%

of security professionals think their current security controls are adequate.
Forrester State of Enterprise IoT Security in North America

207 DAYS

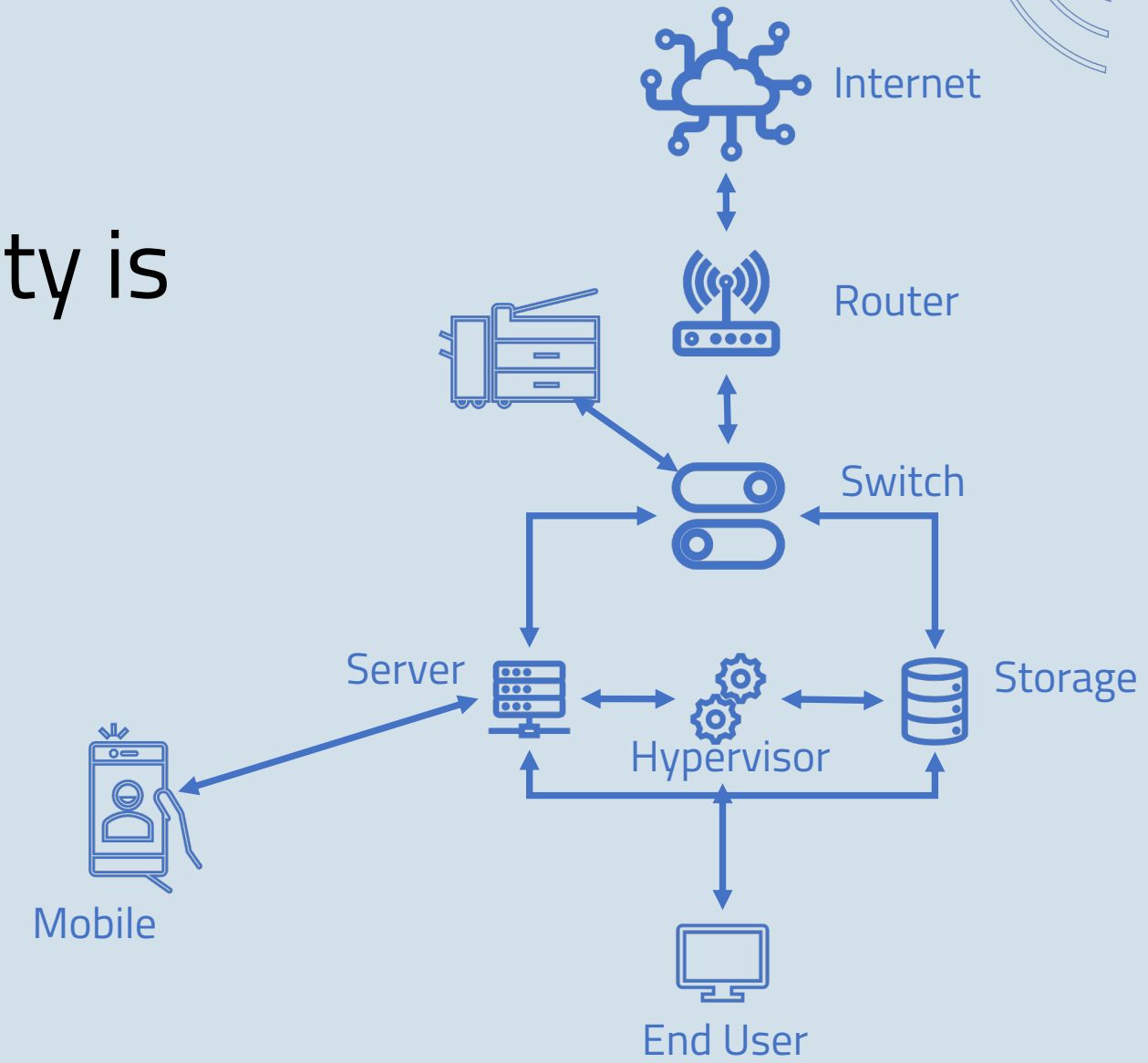
days is the average time to identify a breach. Meaning the bad guys are in your system for over 6-months. *IBM Security Cost of a Data Breach Report 2020.*

9 in 10 organizations that suffered a data breach were fully compliant with their policies.

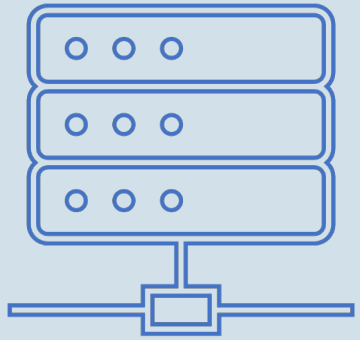
A leading cyber insurance agency in the United States reported that ~83% of their payouts were due to breaches

Security in the Network

Current cyber-security is extremely data-flow focused.



Thor – Closing Gaps on the Edge



A Server

Industrial Controls

A Mobile Device

What does Thor provide?

Implicit guaranteed security of any hardware *and* software operation from an adaptive *end-to-end* solution from *any* connected device to *any other* third party device

What is gained by using Thor?

Implicit and native compute trust

Warfighters in Security Centers can focus efforts on other tasks

Warfighters with drones, planes, trucks, anything experience guaranteed operation

Security Implications at the Compute Level

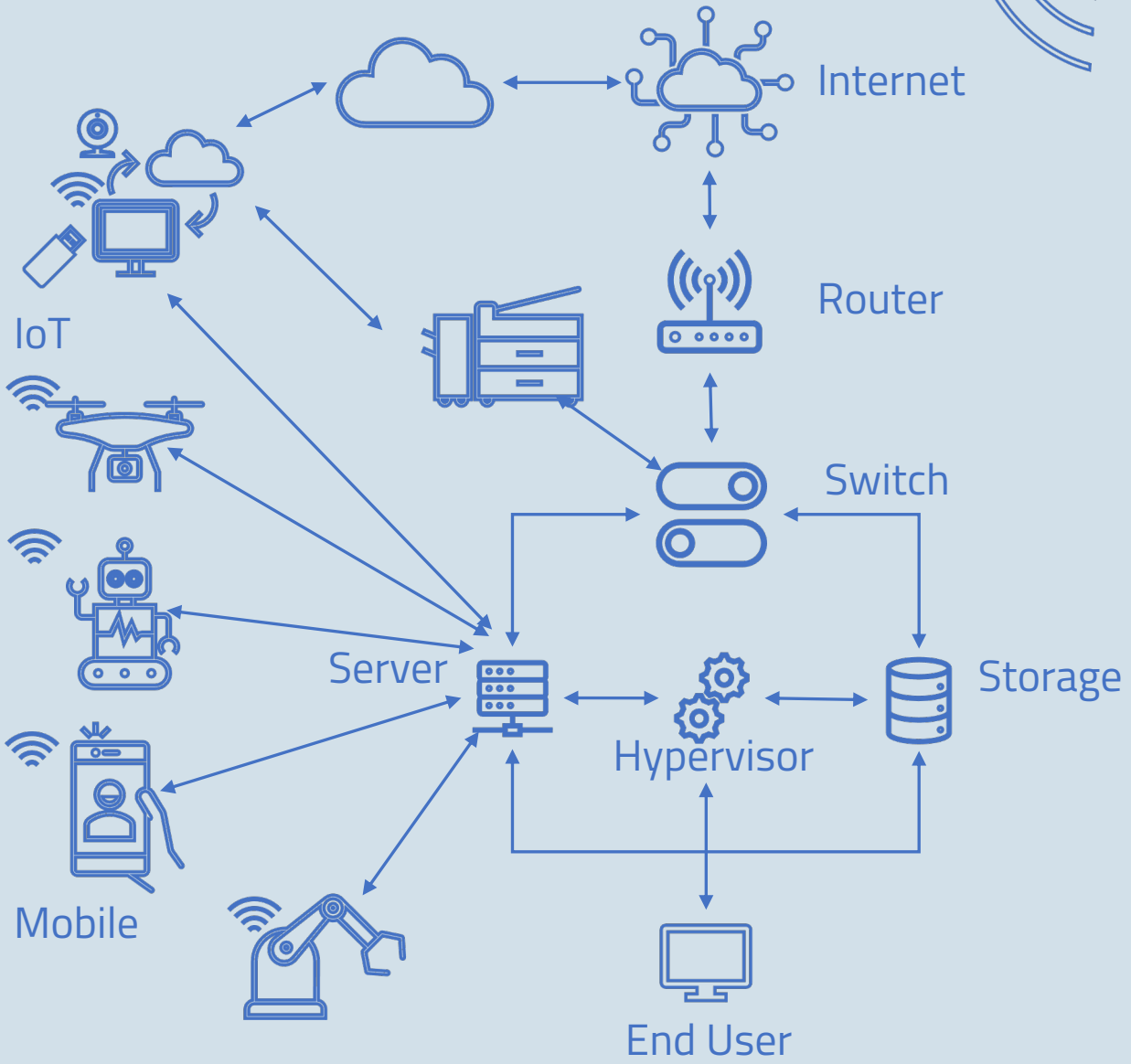
Unlimited systems are at risk –

… it is a race that we're losing.

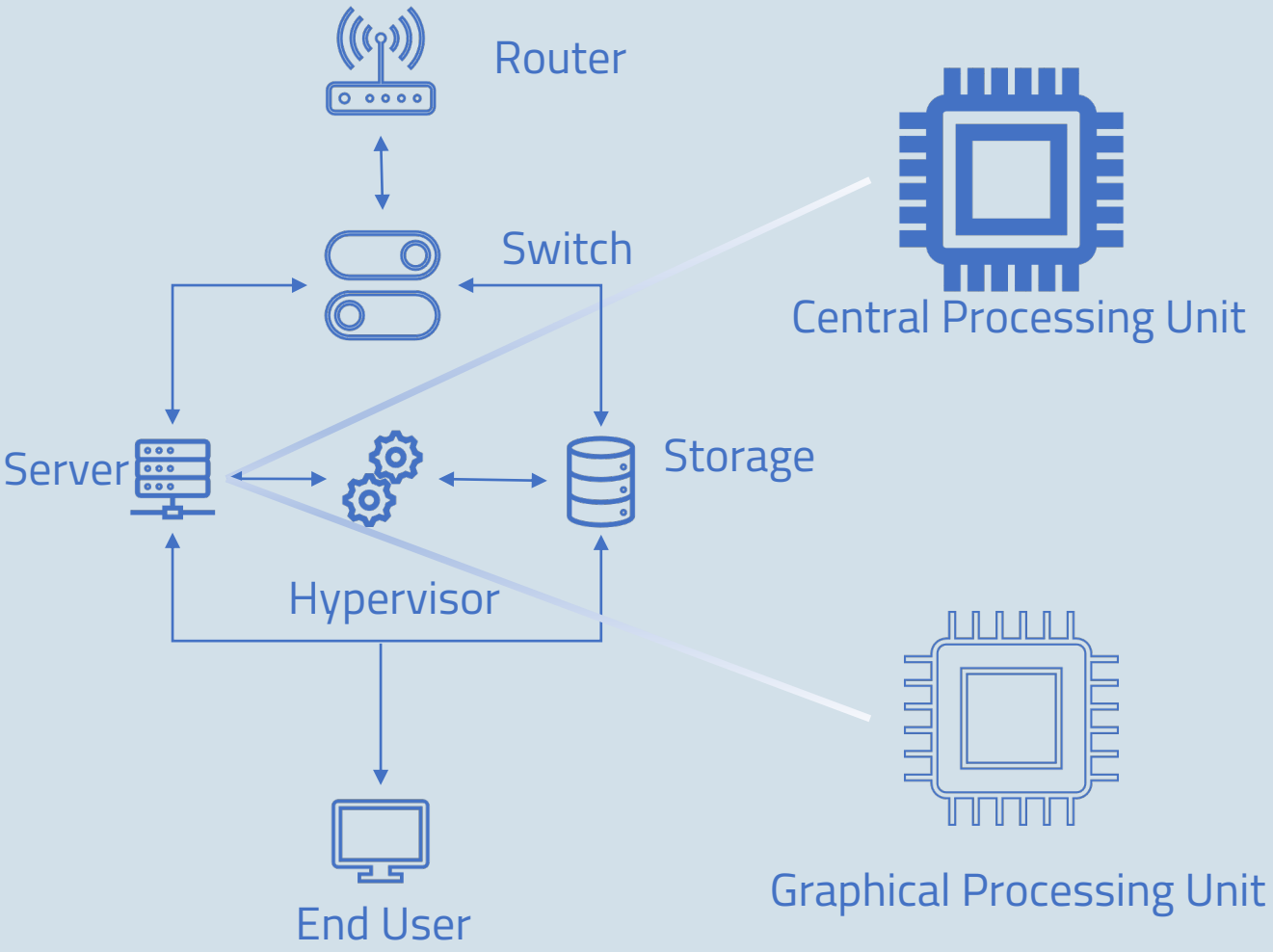
Where is Thor in the Data Center?

A server is a computer that *serves* information to other computers –

Thor resides *within* the actual server in the data center, regardless of server location.



Where does Thor Live in the Server?



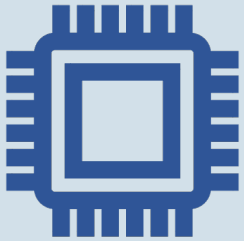
There are two main types of data processors:

Central Processing Units (CPUs) and Graphical Processing Units (GPUs)

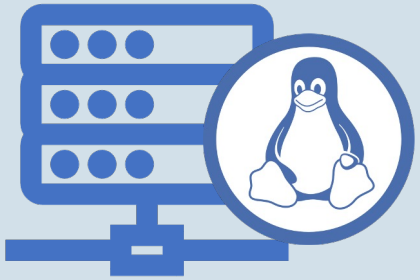
The Processing Unit is the electronic circuitry that executes instructions comprising actions of computer programs.

Thor is a program that resides on x86 or AltArch compute platforms

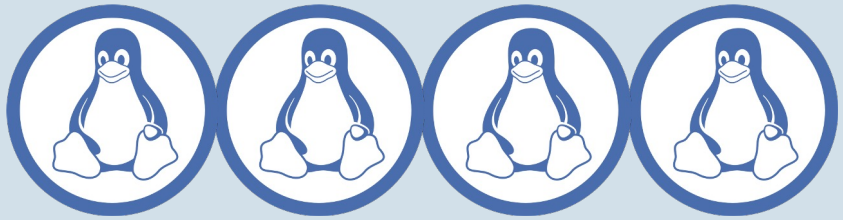
Where does Thor Live in the CPU?



A Processing Unit



Server



Clustered Servers

Compute hardware requires an operating system (OS) in order to work.

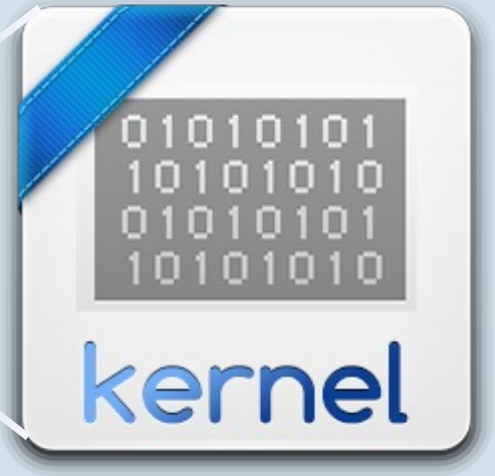
Linux is a family of open-source Unix-like operating systems based on the Linux kernel. Windows is closed-sourced and uses a kernel.

The Linux and Windows kernels sit on-top of the CPU.

Where does Thor Live in the Kernel?

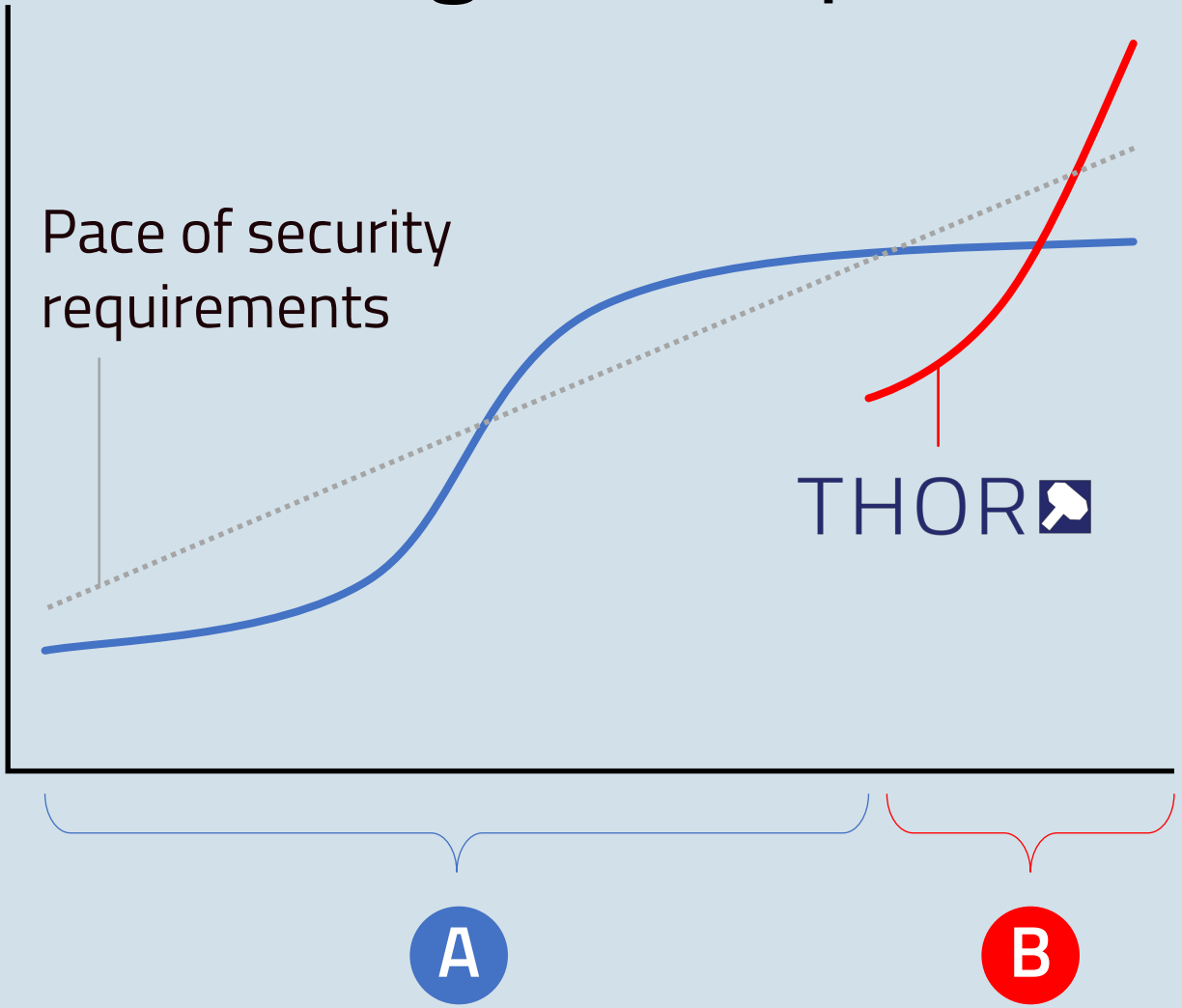
Linux and Windows Kernels are modular -

Thor is a kernel module.



With Thor added to your kernel stack, the native machine speaks *anywhere* about the entire state of the machine.

Thor is *Transformative* InfoSec – Crossing the Gap in Zero Trust Ideology

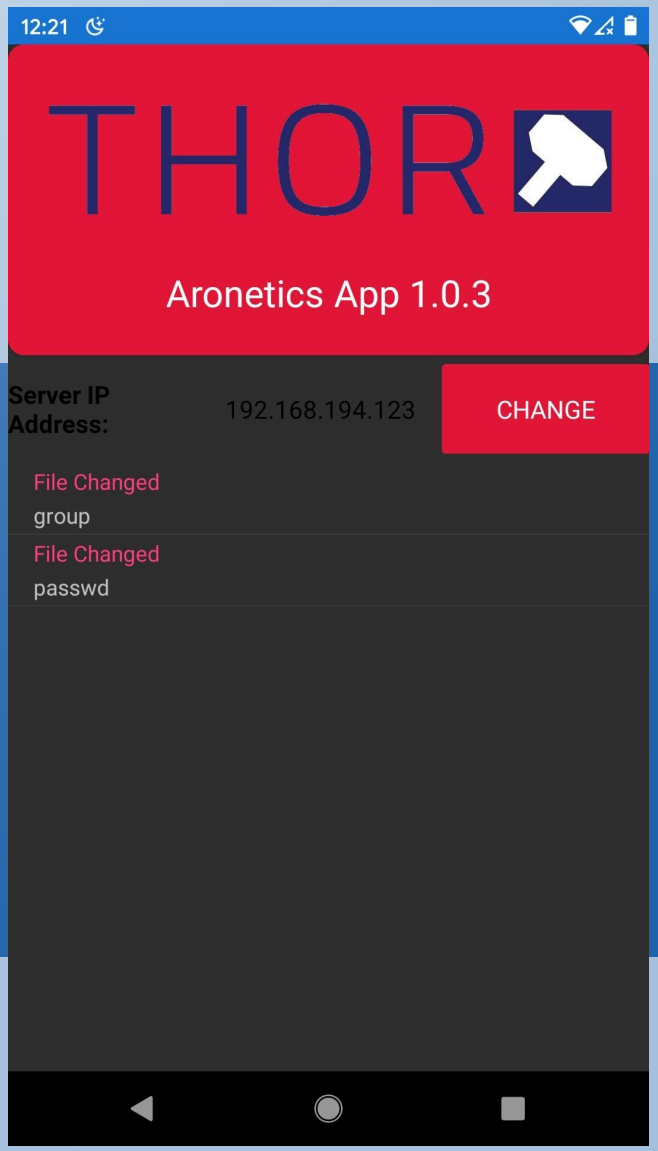


A Era in which monitoring files on computers was sufficient.

B Modern security requirements now include computers, switches, routers and PLCs to be monitored in real time.

Partnership Pipeline

See the Unknown



Aronetics

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