Infrastructure Resilience & Security

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Hyperscale Data Center Colocation

Enterprise / Campus

Utilities

Critical Remote Infrastructure

Branch & Retailers

Manufacturing

Challenges of Security & Resilience

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Ransomware

Kaseya (2021)

Yum Brands (2023)

Colonial Pipeline (2021)

CNA Financial (2021)

Attacks on Operational Infrastructure (OT)

STAMFORD, Conn., July 21, 2021

Gartner Predicts By 2025 Cyber Attackers Will Have Weaponized Operational Technology Environments to Successfully Harm or Kill Humans

Application & Network Downtime

Bad Software

Failed Upgrades

Increased mean time to repair & cost

Why Does All This Still Happen?!

CYBER SCAPE — Momentum Cyber

A full landscape map of cybersecurity companies organized by category, including: Network & Infrastructure Security, Web Security, Endpoint Security, Application Security, Mobile Security, MSSP, Data Security, Messaging Security, Risk & Compliance, Security Ops & Incident Response, Threat Intelligence, IoT, Identity & Access Management, Digital Risk Management, Security Consulting & Services, Blockchain, Fraud & Transaction Security, and Cloud Security.

CYBER SCAPE

1

Too many products. Too many experts. Too many gaps.

So many products...
... So little time

2,000+ Cybersecurity Vendors and 10,000+ Apps

zpe

3

So much attack surface...
... So little room for error

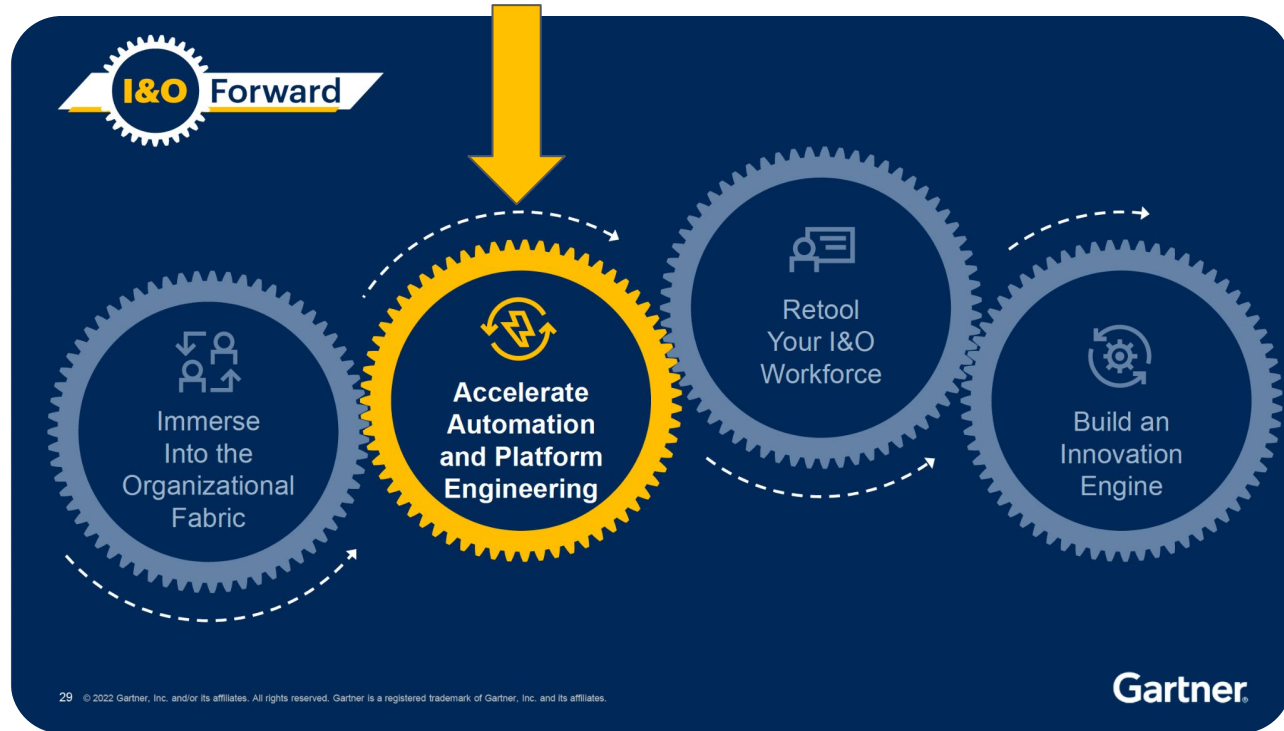**>88% of Security Breaches Happen Due to Human Error**

Source: IBM Cyber Security Intelligence Index Report.

Source: Stanford study Psychology of Human Error"

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Gartner IOCS 2023 Direction

- Consolidate to an single platform

- Open multi vendor Ecosystem

- Use automation best practice

foundational for AI Driven Infrastructure (AIDI)

I&O Forward

Immerse Into the Organizational Fabric

Accelerate Automation and Platform Engineering

Retool Your I&O Workforce

Build an Innovation Engine

Gartner.

Build a separate designated control-plane Infrastructure

Ransomware is a modern disaster

To combat Ransomware, there is a need for a designated separate infrastructure

Designated Infrastructure

Physical and Logical Separation
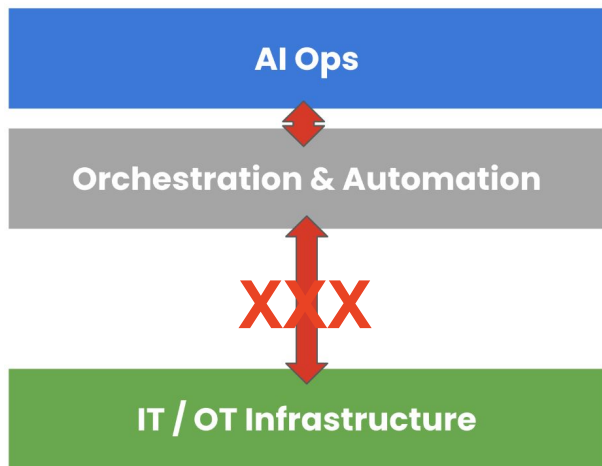
Compute Options

Separate Control Plane

Storage
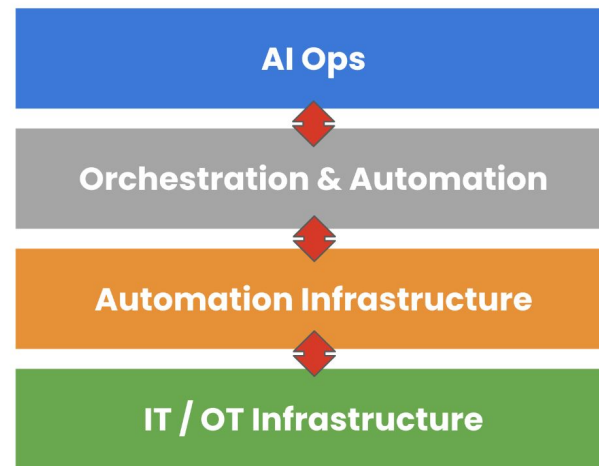
Security and Build Tools

Networking

Build a seperate Automation & AI Infrastructure

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Unreliable

AI Ops

Orchestration & Automation

XXX

IT / OT Infrastructure

- **Risky**
- **Requires expertise**
- **Difficult to recover**

The Best Practice

AI Ops

Orchestration & Automation

Automation Infrastructure

IT / OT Infrastructure

- **Safe**
- **Any skill level**
- **One-click recovery**

Automation Best Practices in Action

Automation reaches production through an Out-Of-Band Infrastructure WAN/LAN control planes using one Nodegrid device

If production goes down, the isolated Management infrastructure can bring it back automatically & rebuild production from scratch

ZPE Systems' Nodegrid Helped Frank…

- Save Time: **1-hour Plug-n-Play Setup**
- Work Smarter: **Automated Patching**
- Stay Secure: **Isolated Remote Recovery**

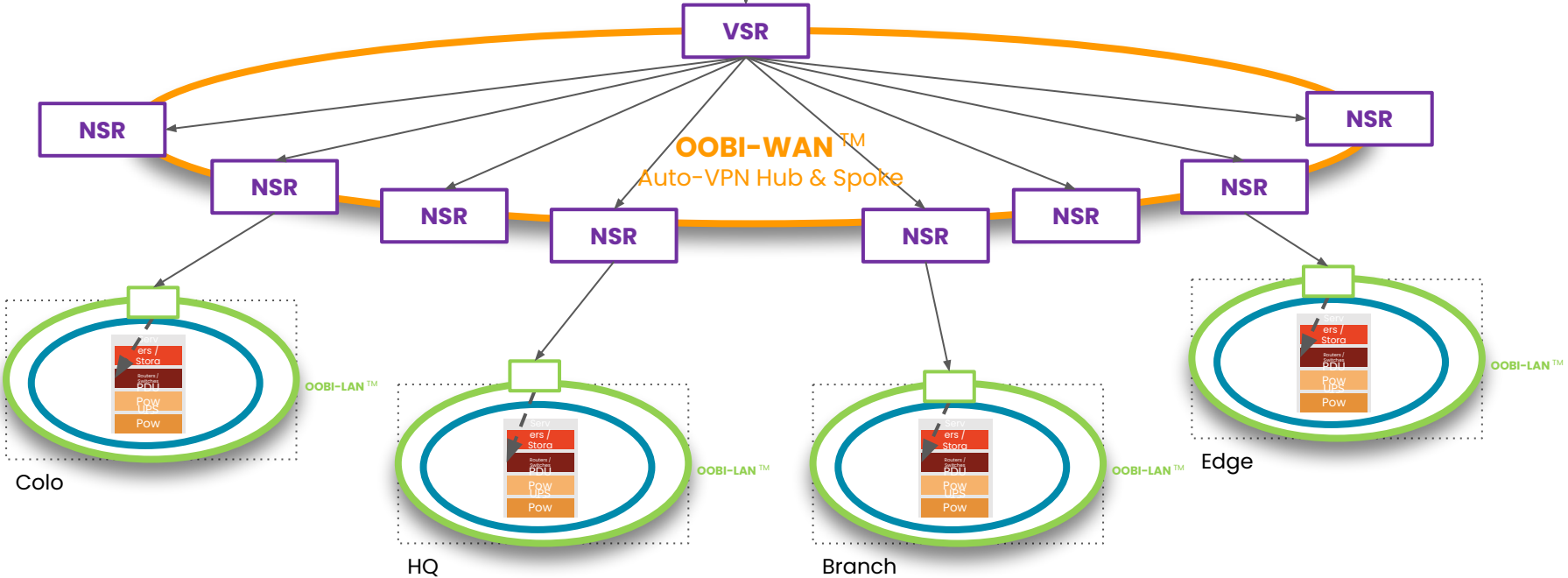*"Nodegrid is like having extra engineers on the team"*

—Frank Basso, Vapor IO

ZPE Solutions Automatically Build the Secure Out-of-Band Control Plane Infrastructure:

AI Ops

Orchestration & Automation

SALTSTACK

DNA Center

ANSIBLE

zpe cloud

Remote Access

VSR

NSR **NSR** **NSR** **NSR** **NSR** **NSR** **NSR** **NSR** **NSR**

OOBI-WAN™
Auto-VPN Hub & Spoke

OOBI-LAN™

Serv ers / Stora
Routers / Switches
PDU
Pow
UPS
Pow

Colo

Serv ers / Stora
Routers / Switches
PDU
Pow
UPS
Pow

OOBI-LAN™

HQ

Serv ers / Stora
Routers / Switches
PDU
Pow
UPS
Pow

OOBI-LAN™

Branch

Serv ers / Stora
Routers / Switches
PDU
Pow
UPS
Pow

OOBI-LAN™

Edge

Visit ZPE Systems Booth 10112

Download Blueprint

Network Automation Blueprint

A best practice reference architecture for achieving secure & reliable digital services

Win a Playstation 5

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