

ZPE Systems Introduces Security Platforms for Enterprise

An Exclusive Presentation for Security Field Day 7

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Agenda

Introduction: Why Cybersecurity for Enterprise Can't Be Solved By One Vendor

Cybersecurity vendors are at the top of their game. So why are cyber attacks increasing and becoming more effective? We'll discuss the modern enterprise's pain of having too many products, from too many different vendors, which leaves too many security gaps. We'll also discuss why this dynamic attack surface can't be solved simply by adding more products, and instead requires a platform — an automated and open platform capable of unifying the diverse ecosystem of cybersecurity solutions and eliminating gaps.

Demo No. 1: Immutable Principles of Branch Deployment

In this demo, we will show you how to overcome supply chain security risks and address ransomware by putting immutable infrastructure principles into action. We will demonstrate how to use SaltStack automation on our out-of-band platform, which we'll use to build, destroy, and re-build an edge data center — with ease and at scale.

Demo No. 2: Zero Pain Ecosystem | Launching Security Apps from ZPE's Cybersecurity Platform

In this demo, we will show our enterprise cybersecurity platform that powers what we call the Zero Pain Ecosystem. We will demonstrate the ease of use in securing remote branch locations, by using Horizon3's NodeZero to launch an automated pen test, and by running a Splunk agent to feed XDR systems. We will conclude this demo by showing how to use immutable principles for disaster recovery, to decommission an infrastructure stack and rebuild it automatically from scratch.



Helo. We are ZPE Systems.

Founded: 2013

Headquarters: Silicon Valley, CA

Global & Enterprise Customers: >100





- ZPE Systems is an IT company that solves the networking problems of large enterprises — including 6 of the top 10 global tech giants — to help meet increasing demands for availability, security, and scalability
- Companies that maintain or operate many data centers and branch locations, such as those in healthcare, supply chain, government, and finance, trust ZPE's Intel-based serial consoles, services routers, and cloud management software to eliminate human error, security gaps, and interoperability issues

Customers

TRUSTED BY 6 OF THE TOP 10 GLOBAL TECH GIANTS



FINANCIAL SERVICES











RETAIL / ECOMMERCE — GOVERNMENT

















HEALTHCARE



COMMUNICATIONS















ENERGY _____

TECHNOLOGY / INDUSTRIAL







EDUCATION —























Introduction Why Cybersecurity for Enterprise Can't Be Solved by One Vendor





Problems in Cybersecurity

Ransomware & Supply Chain

Kaseya (2021)

JBS (2021)

Colonial Pipeline (2021)

CNA Financial (2021)

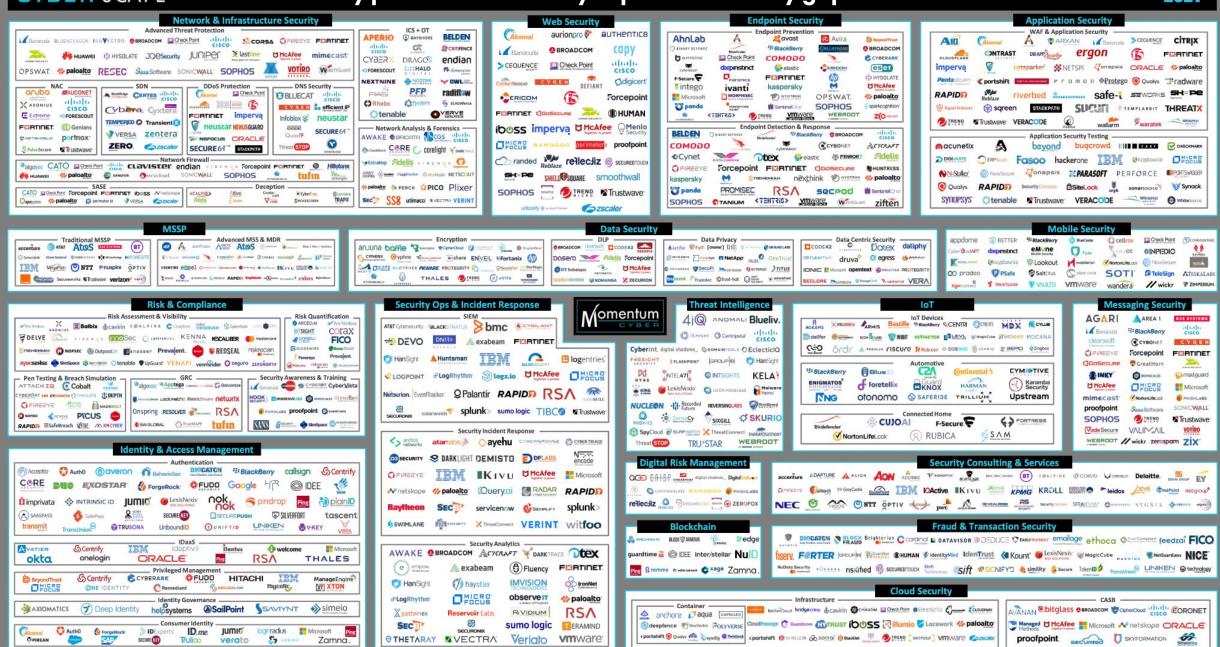
Holistic Security

Hard to operate

Have to trust my partners

Hybrid Infrastructure





Examples from Customers

- Palo Alto + 128T SD-WAN at 1,000 branches
- Convergence of IT and OT Needs special segmentation engine
- Pen test needs a launching pad at branch locations
- Migration from public cloud back to private cloud or Hybrid
- Secure by Design, Network as Code → How do you do it?
- How do I implement all the products for: IEC 62443, MITRE, NIST

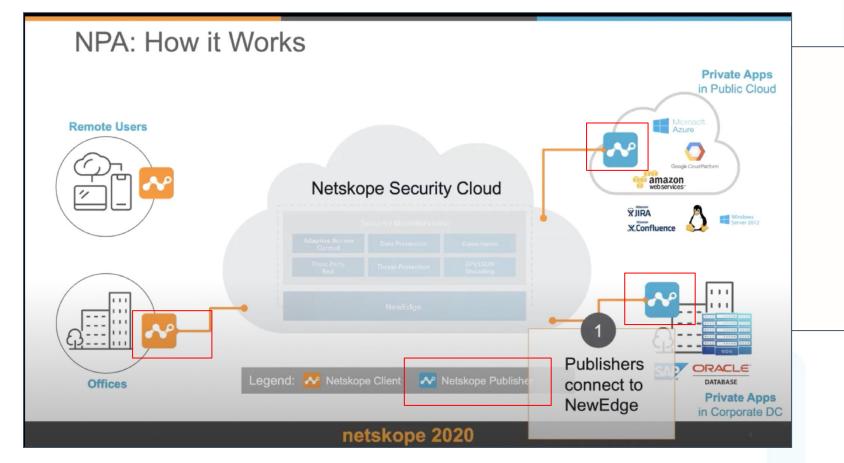
The pain in cybersecurity is from difficulty of deployment and unpredictable operation of multi-vendor ecosystem parts

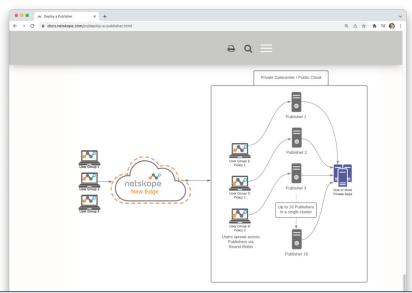


ZTNA - Zero Trust Network Access Implementation

Where does IT install the ZTNA publisher at edge locations?

Where do I install the ZTNA client at my branch office?





SSH:

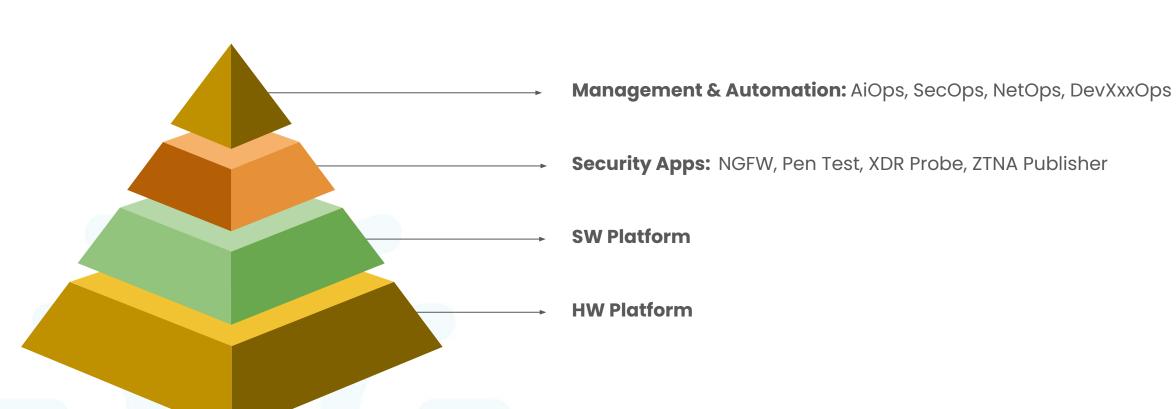
You should be able to SSH into the Publisher from an internal desktop computer for basic administration tasks, such as passing the registration token to the Publisher during initial setup and troubleshooting any issues which might arise. A publisher cannot be used to connect to itself.

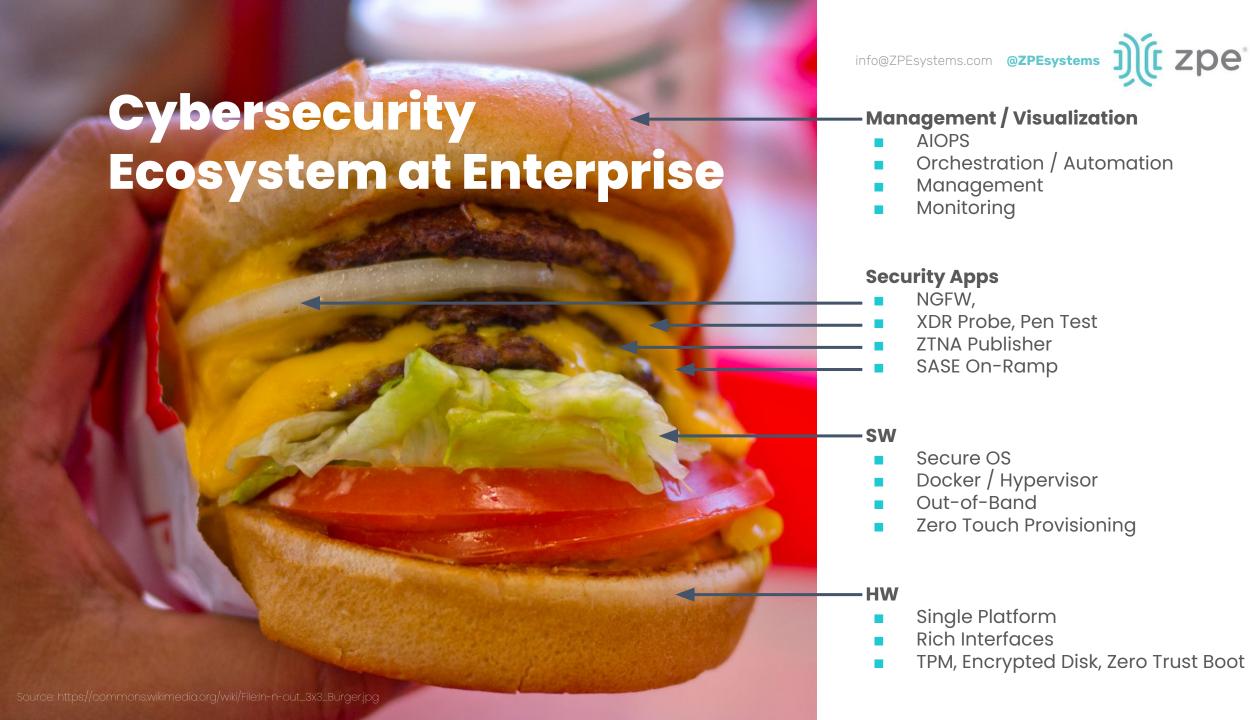
- If you deploy the Publisher VM into a network with DHCP services, it should pick up
 a valid networking configuration automatically, including an IP address, default
 gateway, and DNS.
- If you deploy the publisher VM into a network without DHCP services, you must configure a static IP address, default gateway, and DNS.
- · Netskope recommends that your network includes DHCP.

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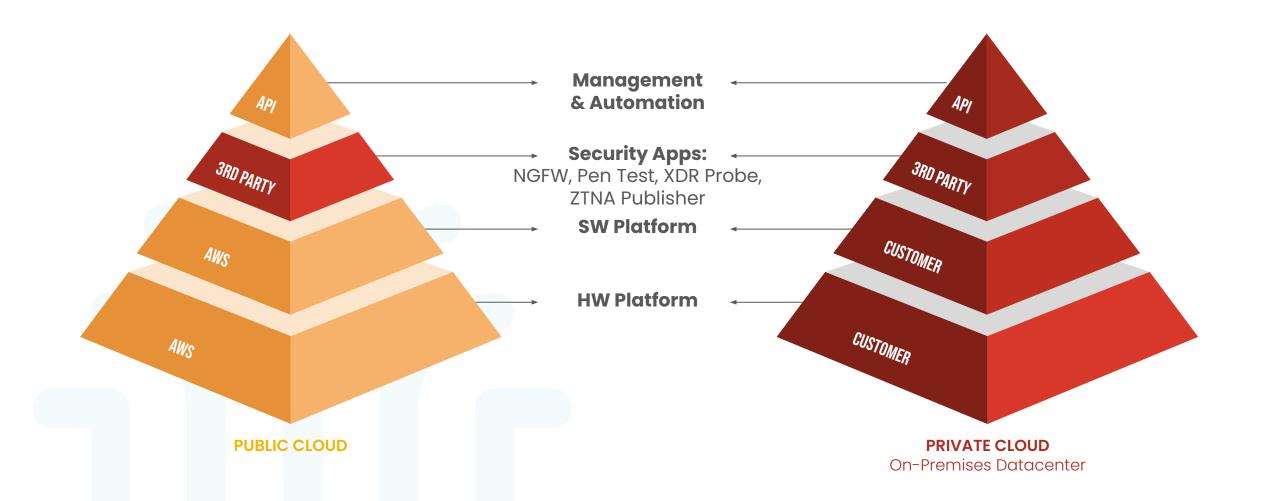
Cybersecurity Ecosystem at Enterprise





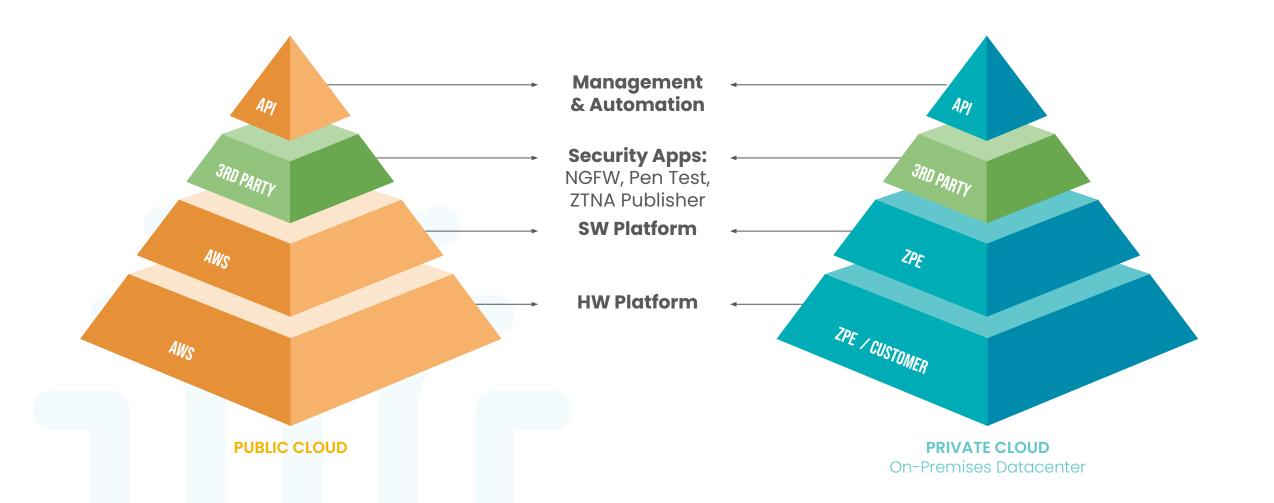


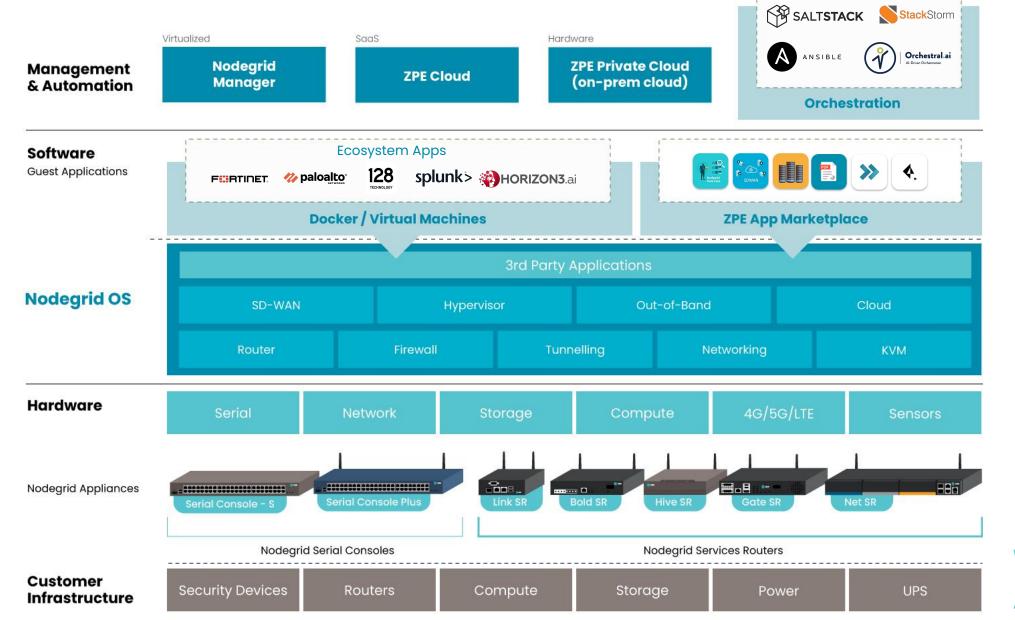
Cybersecurity Ecosystem at Hybrid Enterprise





Cybersecurity Ecosystem at Hybrid Enterprise with ZPE





ZPE Private Cloud Platform with OOB **Automation**



Cybersecurity Platform at Edge



Cellular APs



Switch



Firewall



Out-of-Band Console Switch



Automation & Jumpbox Server



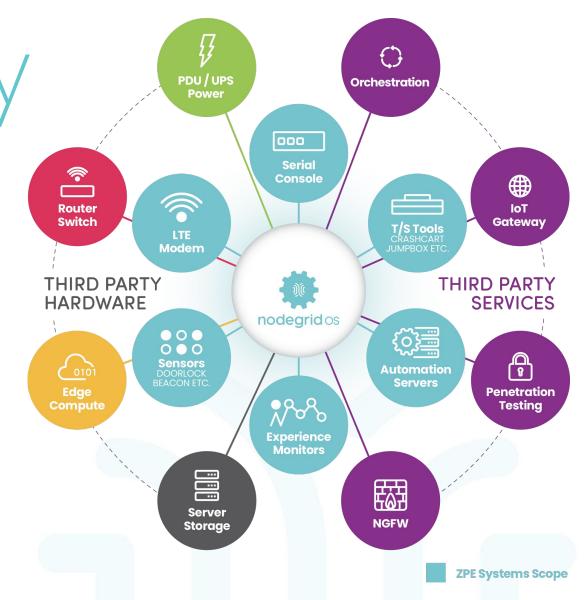


Nodegrid Gate SR (GSR-T8-BASE)

Cybersecurity is a Team Sport

Zero Pain Ecosystem





Immutable Principles of Branch Deployment

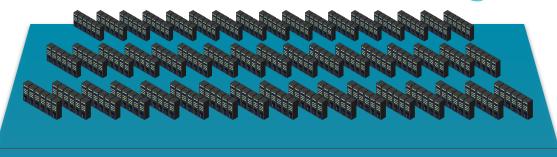
Demo No. 1





Enabling Private Cloud from Hyperscale Datacenter to the Edge





Hyperscale Datacenter

1000+ Racks

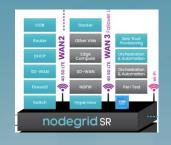


Enterprise Datacenter

10 to 1000 racks



Micro - Edge Datacenter / Colo 1 to 10 racks



Out-of-Band 5G / LTE

SD-WAN NGFW

Sensors Storage

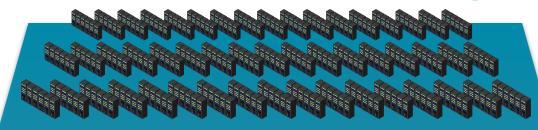
Automation Compute

Nano - On-premise Edge Single Server

Enabling Private Cloud from Hyperscale Datacenter to the Edge









1000+ Racks





Enterprise Datacenter

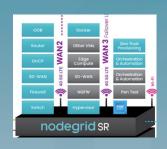
10 to 1000 racks





Micro - Edge Datacenter / Colo 1 to 10 racks





Out-of-Band	5G / LTE
SD-WAN	NGFW
Sensors	Storage
Automation	Compute

Nano - On-premise Edge Single Server





Goals for Infrastructure Operations ozpesystems.com ozpesystems jú zpe

01	Secure	 Vendor and Transport Physical Local Security Solution Integrity
02	Simple	 Design must be simple to deploy Process must support irritative changes and improvements Can be maintained and supported for multiple years
03	Scalable	 Process needs to be repeatable to 100's or 1000's location Support ongoing improvements Is simple teachable to other groups or new team members
04	Sustainable	 Solution is expandable/flexible to support changes Solution is future prove
05	Sensible	 Solution supports all current requirements Solution supports future requirement changes Costs are within business expectations



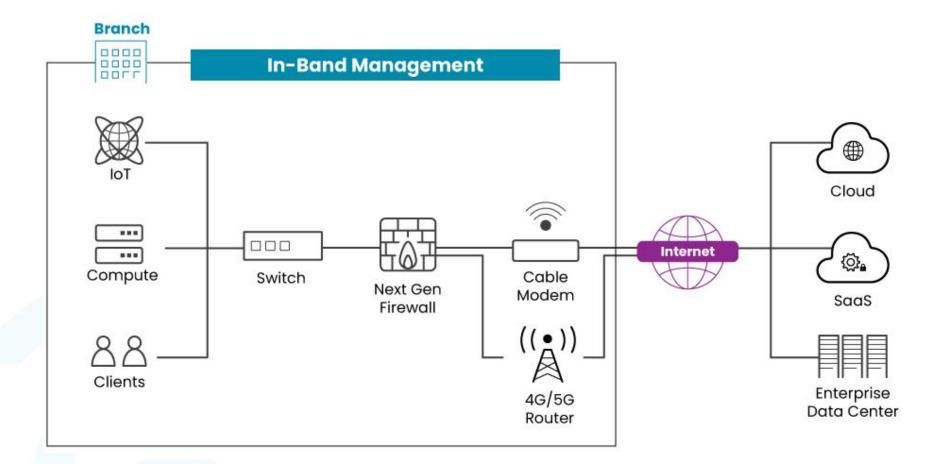
DEMO 1

Immutable Principles for Security

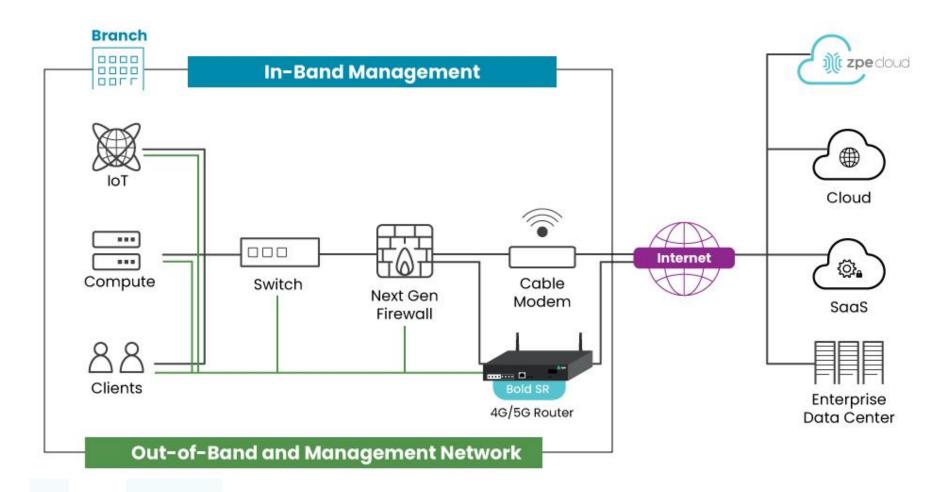
- Build, destroy, rebuild an edge infrastructure
- Demonstrating the same immutable principles
 learned from public cloud & tech giants
 - Secure initial deployment
 - Recover infected infrastructure
 - Deploy changes holistically
 - Ensure certainty of deployment outcome
 - Roll back to the known good state











Nodegrid Bold SR

IT Infrastructure Management for the Branch: The ultimate fully loaded branch device for Guest OS, OOB, 4G/LTE Cellular Failover solution.



CPU 4 core Intel x86 64-bit CPU



DRAM4 to 8GB of DDR3 DRAM



Storage 32GB to 2TB Self-Encrypted Disk



Wi-Fi 2x2 Wi-Fi 5



5G / 4G / LTEShared OOB
& In-Band



Edge Compute





OS Nodegrid OS *Linux*



Serial 8X RJ-45 4X USB



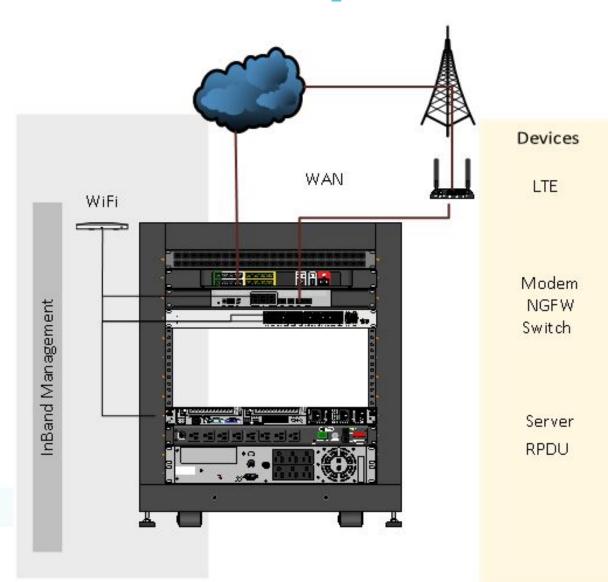
Ethernet 5X Gigabit with VLAN option

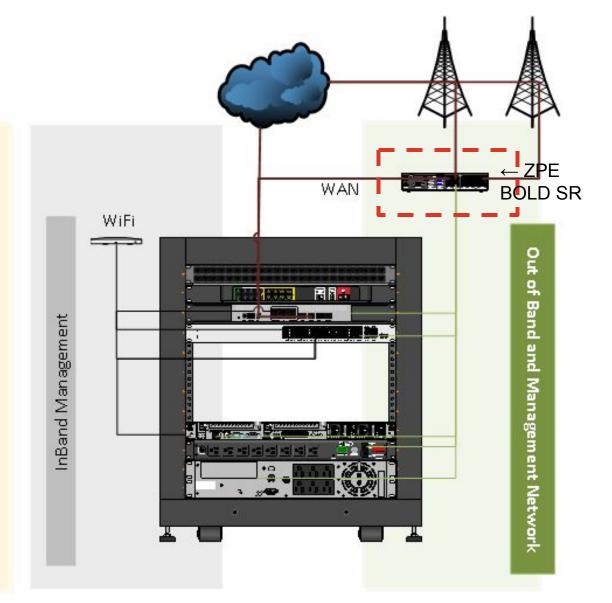






Branch Setup





Demo



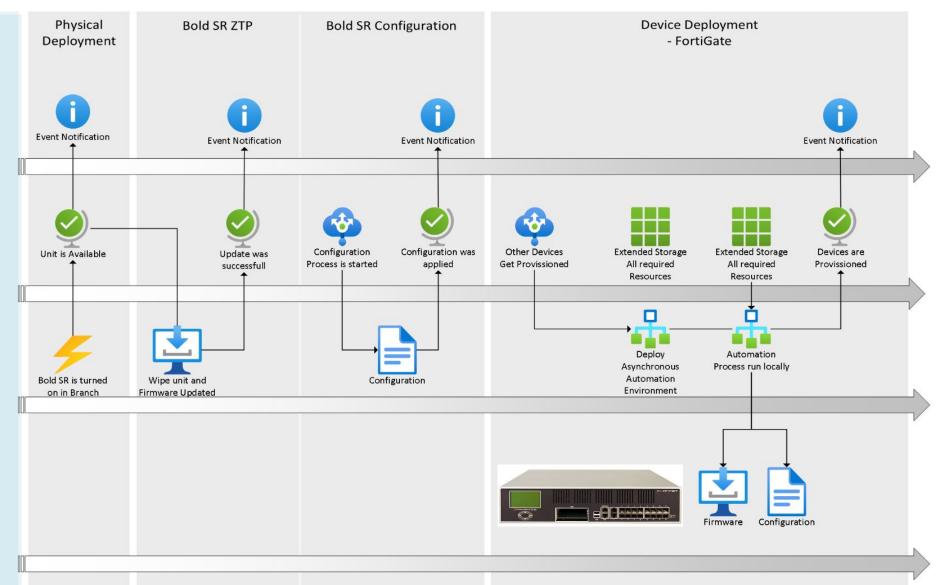












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SECURE EDGE DATACENTER DEPLOYMENT

Zero Pain Ecosystem Launching Security Apps from ZPE's Platform

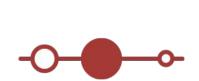


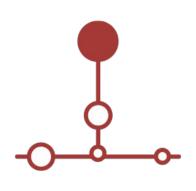


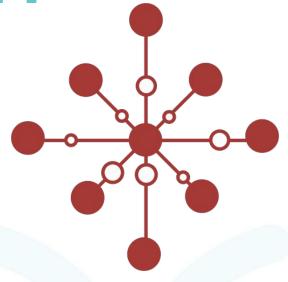
CYBER SCAPE Too many products. Too many experts. Too many gaps.



The Three Requirements of Running Security Apps







In Path of Traffic

Insert Traffic

At All Locations

Security App

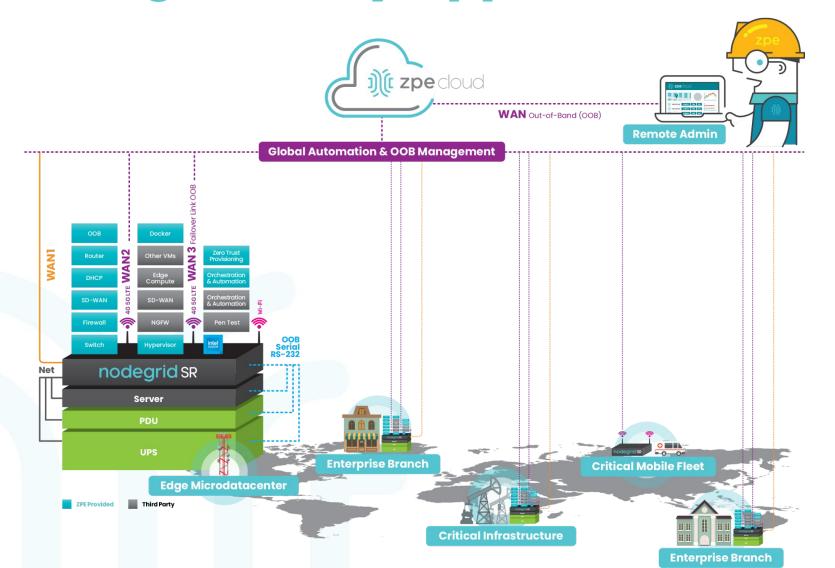
OTraffic



@ZPEsystems.com @ZPEsyster

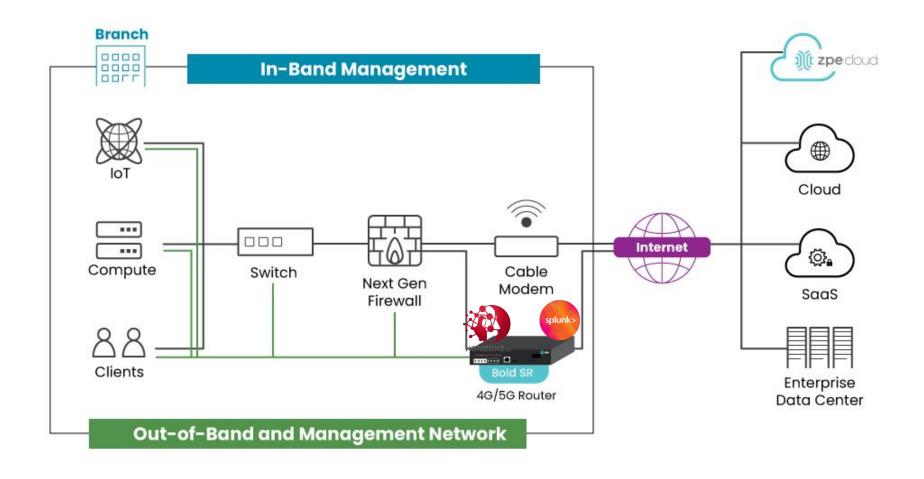


Launching Security Apps from ZPE Platform





Launching Security Apps from ZPE Platform



Security Apps

Autonomous PenTest

utonomous PenTest Horizon3.ai Additional Visibility XDR - Splunk

Event Driven Automation - StackStorm

ZTNA -Netskope



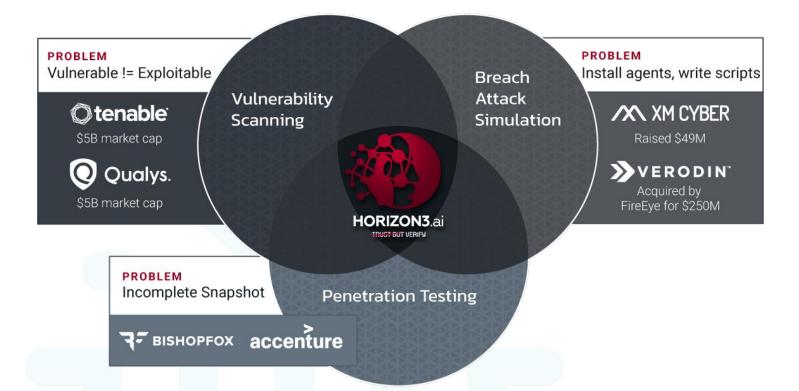








NodeZero from Horizon3.ai autonomous pen test





Effort: Self-service, Agentless, 100% Autonomous



Speed: Hours NOT weeks



Accuracy: Proof + Path = No False Positives



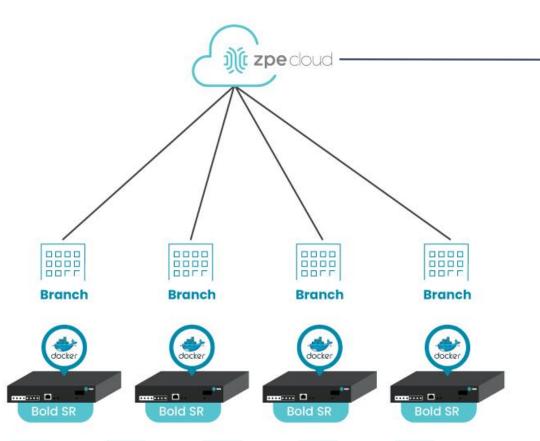
Coverage: 100% of network

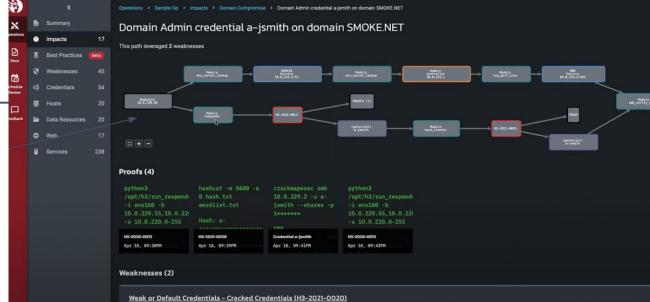


Frequency: Continuous



Autonomous Pen Test Horizon3.ai





- Through ZPE Cloud, Autonomous Pen Tests can be scheduled
- Bold SR downloads latest Docker image
- Bold SR executes the PenTests
- Reports the results back to Horizon3.ai

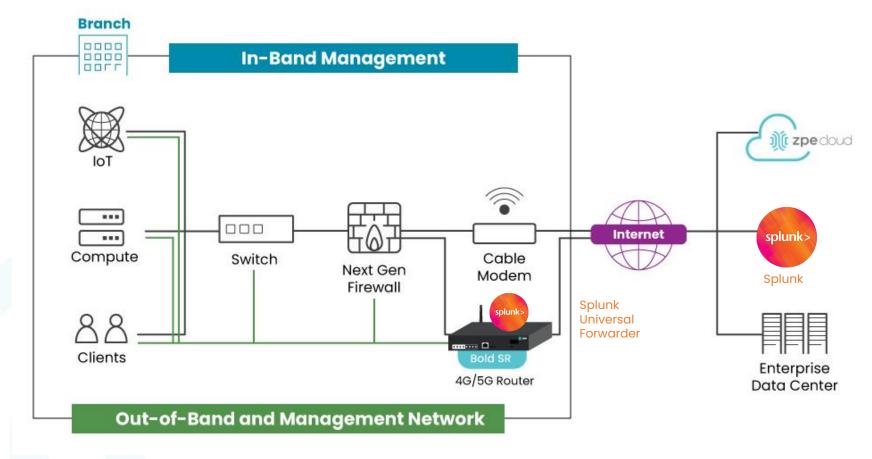
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HORIZON3.AI



Additional Visibility XDR-Splunk

- Splunk Universal Forwarder is installed on Bold SR in each Branch
- All logs are locally collected and forwarded based on Splunk policies
- Gather additional logs like console logs
- Consistent and scale platform for all branches

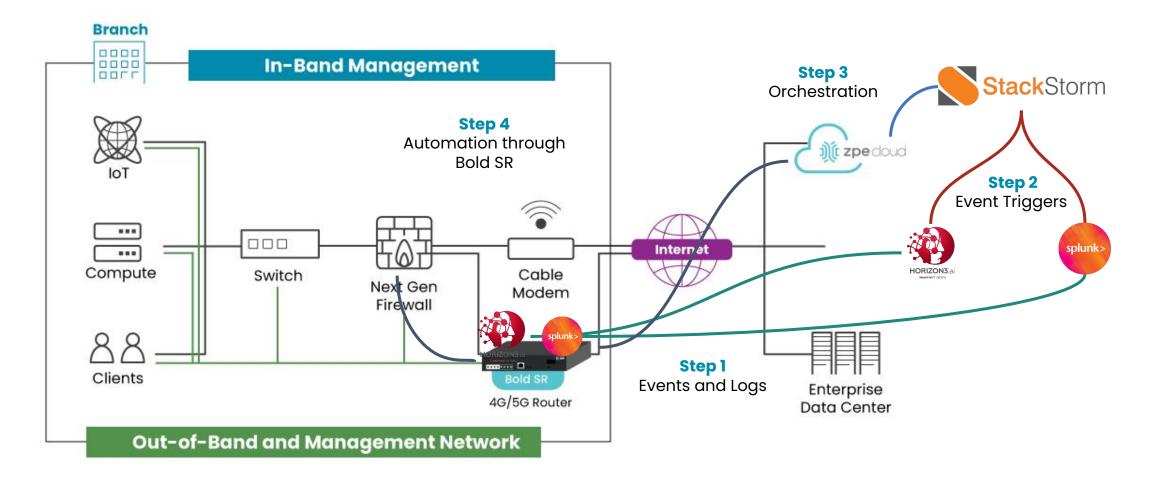


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SPLUNK



Event Driven Automation Stackstorm



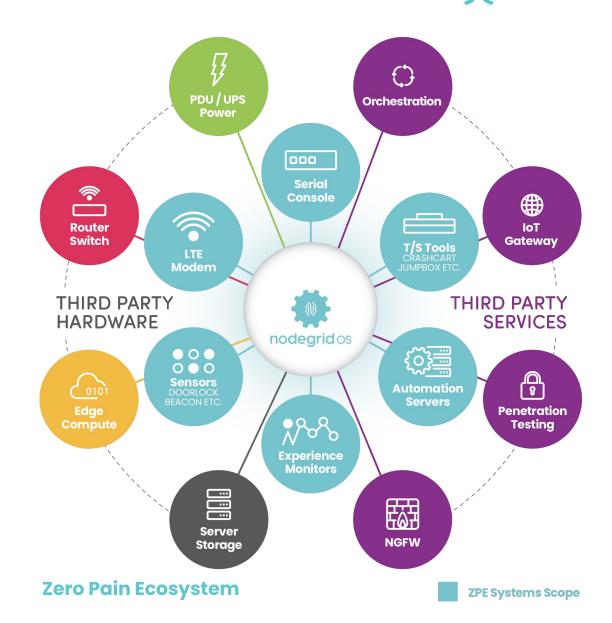
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STACKSTORM

Nodegrid Platform

Ideal choice for your cybersecurity deployments

- Flexible Nodegrid Platform can be utilised for most aspects of the test cycle like running Horizion3.ai or Splunk
- Consistent Platform Nodegrid platform can be used in all Enterprise environments, from Mega Data Center to Nano Data Centers at the Edge, providing a consistent platform, throughout the Enterprise
- **Automation Platform** Nodegrid provides the ideal automation platform for all aspects of the testing cycle, from testing all the way through to fixing





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