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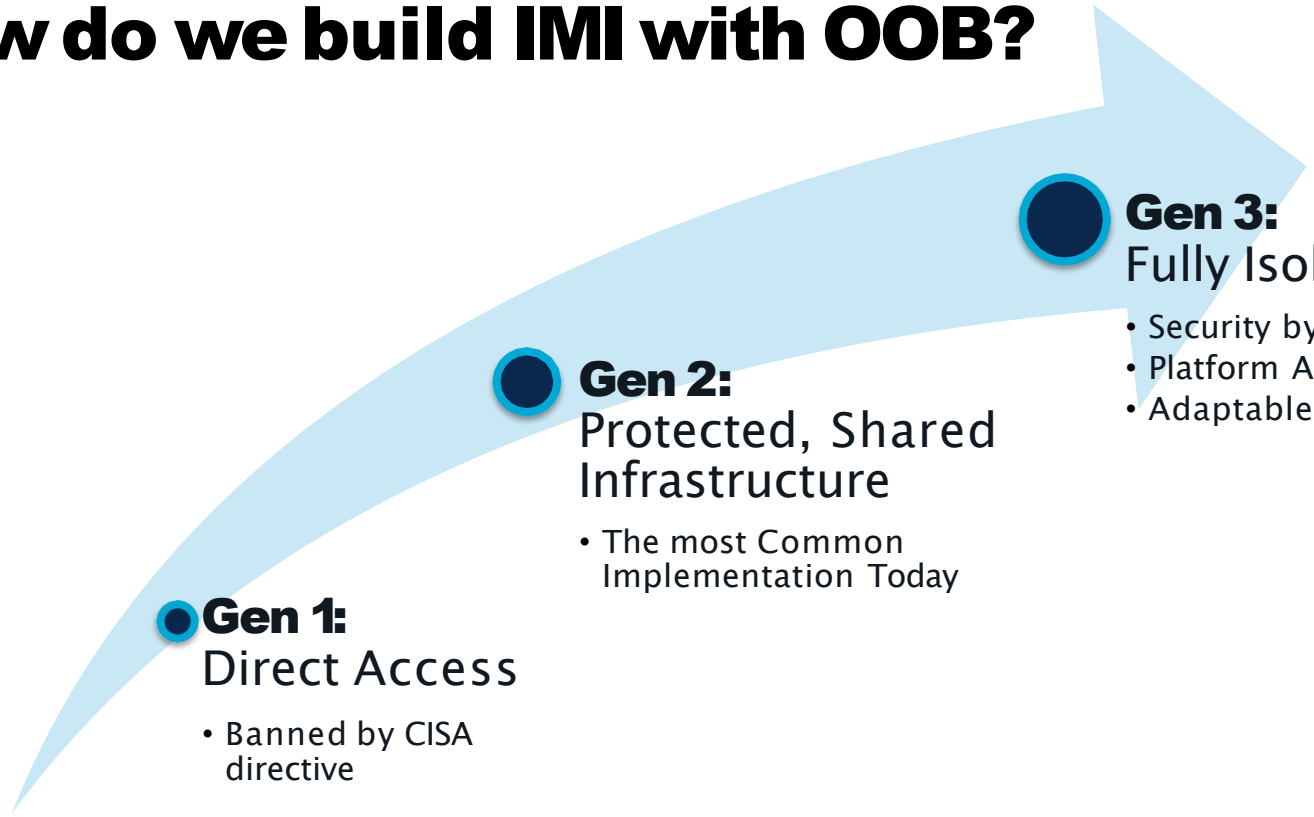
Path to network resiliency: Isolated Infrastructure Management

How Gen 3 Out-of-Band and Isolation Bring Resilience to IT ?

"Our approach must shift from a futile quest for absolute invulnerability to a more realistic strategy of resiliency in which we control the impacts of failures."

Strategy for Cyber Resilience(White House – Feb 2024)

How do we build IMI with OOB?



IMI is Recommended by ...

European Commission
DORA

NIS2 Directive

PCI Security Standards Council™

CYBERSECURITY & INFRASTRUCTURE SECURITY AGENCY
CISA

NATIONAL SECURITY AGENCY
UNITED STATES OF AMERICA

THE WHITE HOUSE
WASHINGTON

Life as an IT Admin

Outcome	Challenges	Gaps
Day Zero & One Installation Day Bring Sites up quickly	*"How much time will this take?"* *"How do I bring up a new site with less staff and cost"*	**Lack of Staff** 87% understaffed (from ISC2, WW cybersecurity members association)

Life as an IT Admin

Outcome	Challenges	Gaps
Day Zero & One Installation Day Bring Sites up quickly	*"How much time will this take?"* *"How do I bring up a new site with less staff and cost"*	**Lack of Staff** 87% understaffed (ISC2)
Day Two Ongoing Operations Keep Everything Running	*"Will this change break the system?"* *"How do I Eliminate configuration drift?"*	**Lack of Confidence,** Zero Day to Zero Hour attacks **300+** days to patch

Life as an IT Admin

Outcome	Challenges	Gaps
 **Day Zero & One** Installation Day Bring Sites up quickly	*"How much time will this take?"* *"How do I bring up a new site with less staff and cost"*	**Lack of Staff** 87% understaffed (ISC2,)
 **Day Two** Ongoing Operations Keep Everything Running	*"Will this change break the system?"* *"How do I Eliminate configuration drift?"*	**Lack of Confidence** 150+ days to patch
 **Doomsday** Unplanned Outages Minimize damage and downtime	*"How fast can I recover?"* *"How can I quickly rebuild my Infrastructure?"*	**Lack of Recovery Capability** $5M+ in damage per instance ($12B in CY23, x2 since 4Y, Bureau analysis)

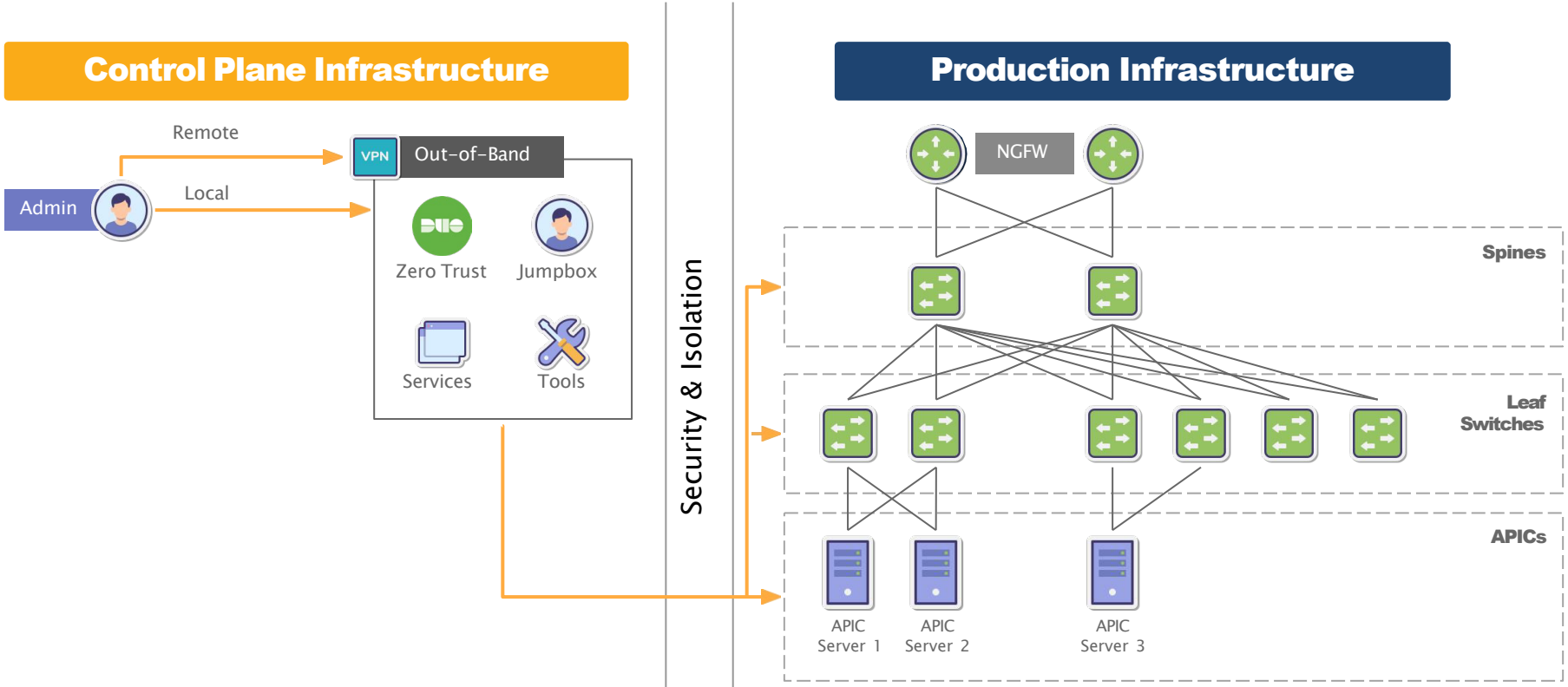
Solution: Automation +OOB

Outcome	Challenges	Solutions
 **Day Zero** Installation Day Bring Sites up quickly	*"How much time will this take?"* *"How do I bring up a new site with less* staff and cost"	**Seed of Life** Deploy locations faster
 **Day Two** Ongoing Operations Keep Everything Running	*"Will this change break the system?"* *"How do I Eliminate configuration drift?"*	**Isolated Management Infrastructure** Daily Change Management
 **Doomsday** Unplanned Outages Minimize damage and downtime	*"How fast can I recover?"* *"How can I quickly rebuild my Infrastructure?"*	**Isolated Recovery Environment** Recover from outages faster

Gen 3:

Isolated Management Infrastructure

***Strongly Encouraged** by BOD 23-02 (CISA)*



Day Zero, Day Two, Doomsday

Day Zero

Initial Deployment

LIVING SPACES

40+ new stores to open

Only 3 IT staff

Opening a new store every other week

Avoiding truck roll,
Reducing costs,
$75,000+ per year

Features Used:

Modular hardware with LTE, Serial, Storage, Fiber Connectivity, Compute

Automation

ZPE Cloud

Day Zero, Day Two, Doomsday

Day Zero

Day Two

Initial Deployment	Ongoing Operations
LIVING SPACES	
40+ new stores to open Only 3 IT staff Opening a new store every other week	250 datacenters 7,000+ devices
Avoiding truck roll, Reducing costs, $75,000+ per year	Consistent, faster, automated deployments & patching No additional manpower
Features Used: Modular hardware with LTE, Serial, Storage, Fiber Connectivity, Compute Automation ZPE Cloud	**Features Used:** Ansible Automation Auto discovery Clustering Docker/VM Virtualization

Day Zero, Day Two, Doomsday

Day Zero

Day Two

Doomsday

Initial Deployment	Ongoing Operations	Recovery and Resurrection
LIVING SPACES		
40+ new stores to open Only 3 IT staff Opening a new store every other week	250 datacenters 7,000+ devices	Lack of resilient recovery infrastructure Quick recovery is challenging in 100 remote locations
Avoiding truck roll, Reducing costs, $75,000+ per year	Consistent, faster, automated deployments & patching No additional manpower	Quick datacenter rebuild Ransomware recovery Minimize business disruption
Features Used: Modular hardware with LTE, Serial, Storage, Fiber Connectivity, Compute Automation ZPE Cloud	**Features Used:** Ansible Automation Auto discovery Clustering Docker/VM Virtualization	**Features Used:** ZPE Cloud 4G/5G Docker/VM Virtualization Built Isolated Recovery Environment (IRE)

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THANK YOU