

# Nomios Security Cup

7-8 maja 2026  
Hotel Mazurski Raj

CROWDSTRIKE

ExtraHop

FORTINET



HPE JUNIPER  
networking

infoblox

Trellix

nomios

ARROW

ectacom

EXCLUSIVE  
NETWORKS

CLICO

# Nomios Private Cloud & Security LAB

Jak zbudowaliśmy własny “secure cloud”?



# Nomios PCS LAB

## Jak zbudowaliśmy własny “secure cloud”?

- Dlaczego Chmura Prywatna?
- Lab - Dlaczego i dla kogo?
- Jak wygląda architektura?
- Czy faktycznie jest “Secure”?

# Modern Private Cloud

The best of both worlds

Cost Control



Agility



Security



Scalability



Resilience



Automation



Sovereignty



Self-serviceability

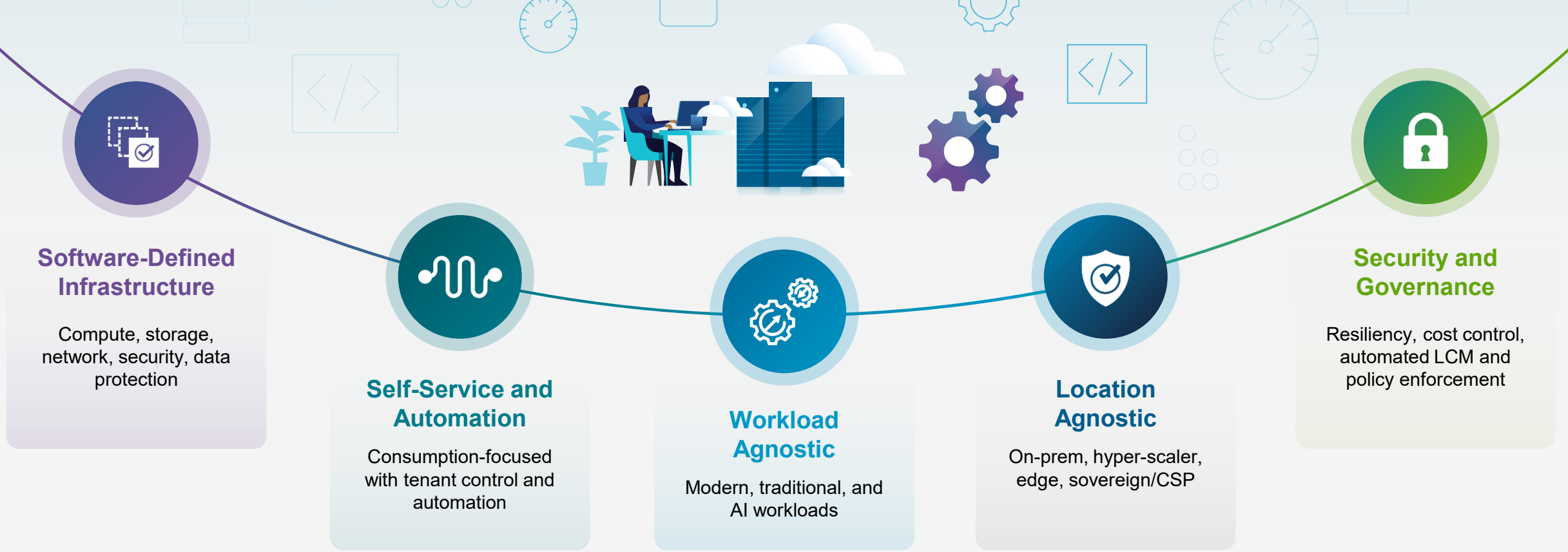


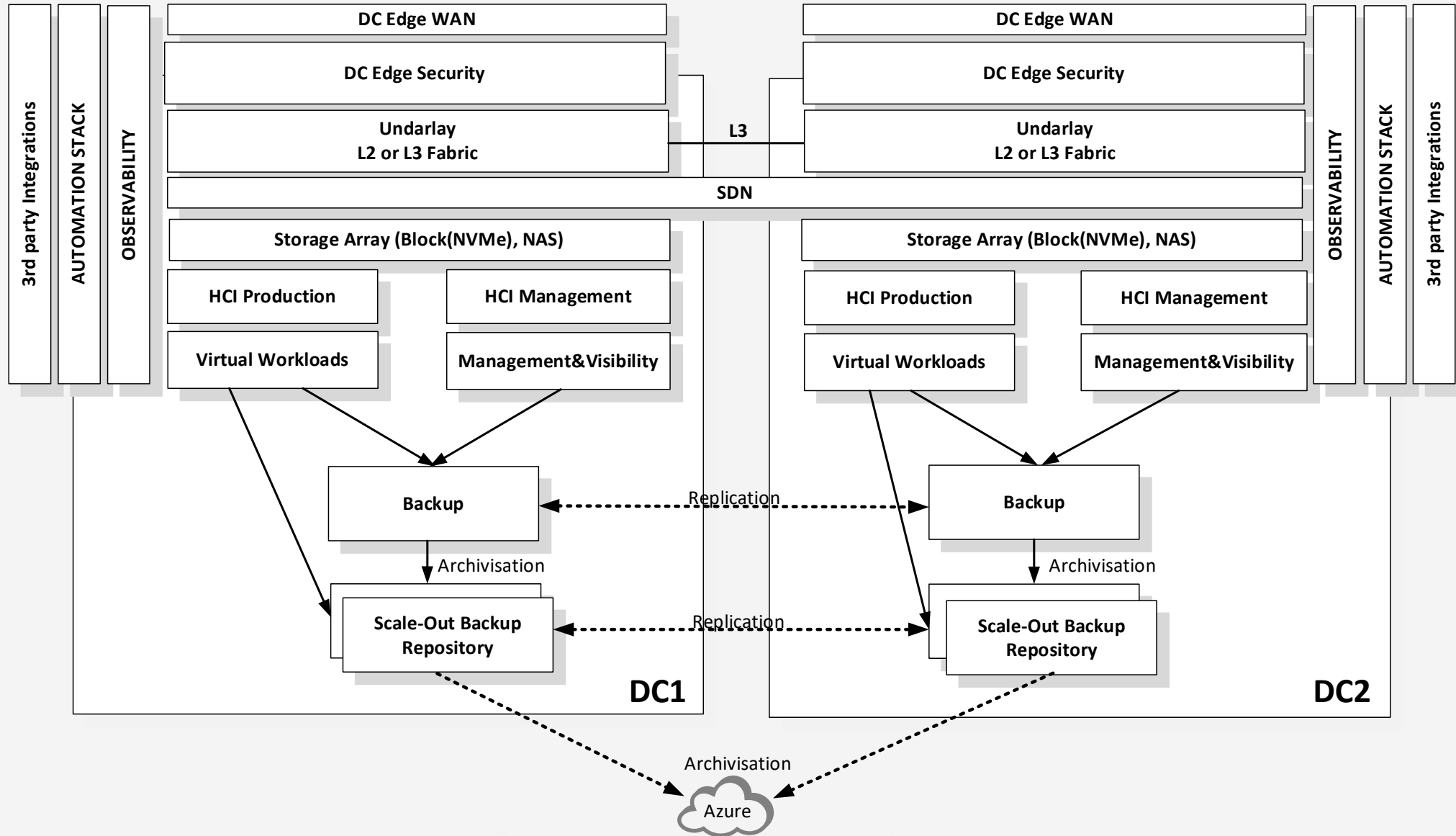
All the benefits of Public Cloud

All the benefits of the Data Center

# CHMURA PRYWATNA

## To sposób pracy – model operacyjny





# NOMIOS PCS LAB

## YOUR SECURE PRIVATE CLOUD

WE DON'T DO "PUBLIC CLOUD"  
WE DO  
**PRIVATE. SECURE. YOURS.**

**IDENTITY & ACCESS MANAGEMENT (IAM)**  
THE BOUNCER AT THE DOOR.  
• ZERO TRUST  
• MFA EVERYWHERE  
• LEAST PRIVILEGE  
• JUST-IN-TIME ACCESS (NO VIP PASSES)

NOT TODAY, UNAUTHORIZED PERSON!

**ACCESS DENIED**

**OBSERVABILITY & MONITORING**  
WE SEE EVERYTHING SO YOU DON'T HAVE TO.  
• METRICS  
• LOGS  
• TRACES  
• DASHBOARDS  
• ALERTS (ONLY WHEN IT MATTERS)

**COMPLIANCE & GOVERNANCE**  
• POLICIES ENFORCED  
• AUDIT READY  
• DATA RESIDENCY  
• REGULATIONS? HANDLED.  
• YOU STAY COMPLIANT, WE SWEAT THE DETAILS.

**AUDIT PASSED**

**ISOLATED TENANTS**  
• (EACH ORG GETS THEIR OWN SPACE)  
• BUILDER! NO PEEKING!  
• NO PEEKING. NO SNEAKING. NO PROBLEM.

**ENCRYPTION EVERYWHERE**  
DATA AT REST, IN TRANSIT, IN USE. EVEN THE COFFEE IS ENCRYPTED.

ENCRYPTED PUEBEE!

**COST CONTROL**  
NO BILL SHOCKS HERE.  
• QUOTAS & LIMITS  
• RIGHT-SIZING  
• SHOWBACK / CHARGEBACK  
• FINOPS FRIENDLY

IT'S YOUR CLOUD. YOU'RE IN CONTROL. WE JUST MAKE SURE NOTHING BAD HAPPENS.

MISSION: KEEP YOUR DATA SECURE  
STATUS: LOCKED, MONITORED, OPTIMIZED  
**OUTCOME: PEACE OF MIND.**

**NETWORK FORTRESS**  
• PRIVATE NETWORKS  
• MICRO-SEGMENTATION  
• FIREWALLS  
• IDS / IPS  
• DDoS PROTECTION  
• VPN GATEWAYS

PEW! PEW!

YOUR DATA  
YOUR RULES  
YOUR CLOUD

PERMIT OPERATIONS.  
RUN BY YOU.  
STAYS WITH YOU.

BUILT FOR YOU.  
RUN BY YOU.  
STAYS WITH YOU.

**THREATS OUT THERE?**  
WE MONITOR 24/7/365!  
SLEEP IS FOR THE UNPATCHED.

**THREAT DEFENSE** (WAF, EDR, XDR, SIEM)  
• REAL-TIME DETECTION  
• BEHAVIOR ANALYTICS  
• AUTOMATED RESPONSE  
• BAD GUYS: BLOCKED

**AUTOMATION & ORCHESTRATION**  
• INFRA AS CODE  
• POLICY AS CODE  
• SELF-HEALING  
• AUTO-SCALING  
• ZERO-TO-CLOUD IN MINUTES (YES, REALLY!)

**BACKUP & DR** BECAUSE STUFF HAPPENS.  
• IMMUTABLE BACKUPS  
• GEO-REPLICATION  
• POINT-IN-TIME RECOVERY  
• SLEEP WELL

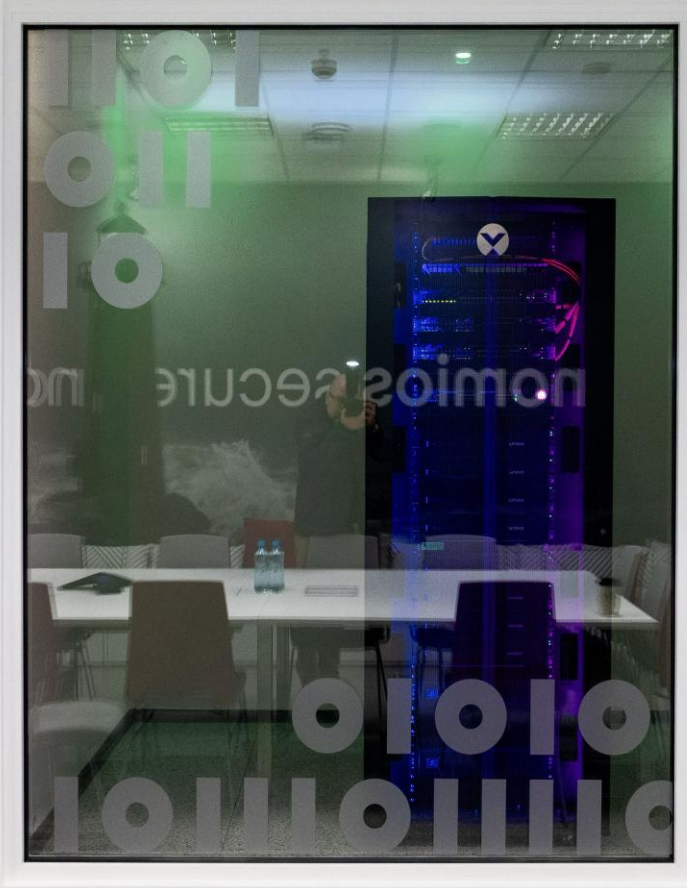
**DEV & COLLABORATION**  
BUILD FAST. SAFE.  
• GIT REPOS  
• CI/CD PIPELINES  
• SECRETS MANAGEMENT  
• TEAM WORKFLOWS  
• COLLAB WITHOUT CHAOS

**CONTAINER & APP PLATFORM**  
RUN ANYTHING. ANYWHERE.  
• KUBERNETES  
• CONTAINERS  
• CARVERLESS  
• APPS LOVE IT HERE

**HIGH AVAILABILITY**  
BUILT TO STAY UP.  
• MULTI-AZ / REGION  
• AUTO-FAILOVER  
• LOAD BALANCING  
• 99.99% UPTIME GOAL (BRING COFFEE, NOT EXCUSES)

**DATA SERVICES**  
• DATABASES  
• OBJECT STORAGE  
• FILE STORAGE  
• CACHE  
• QUEUES  
• ANALYTICS  
ALL SECURE.  
ALL PRIVATE.  
ALL YOURS.

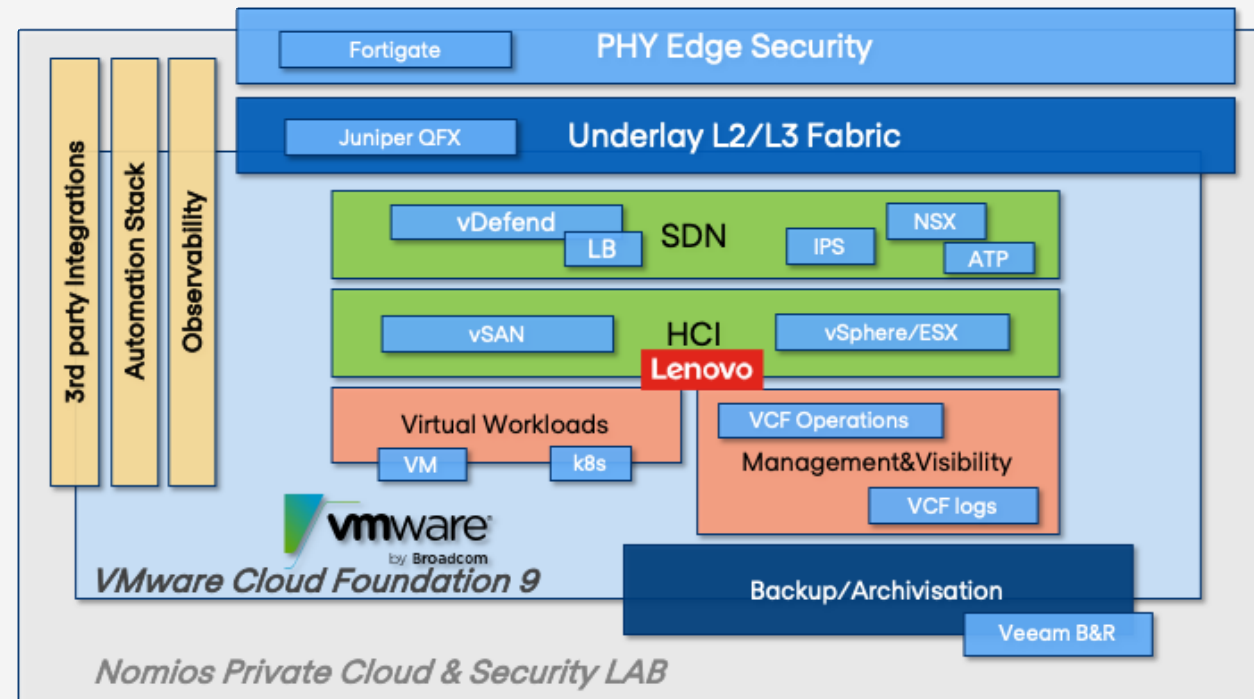
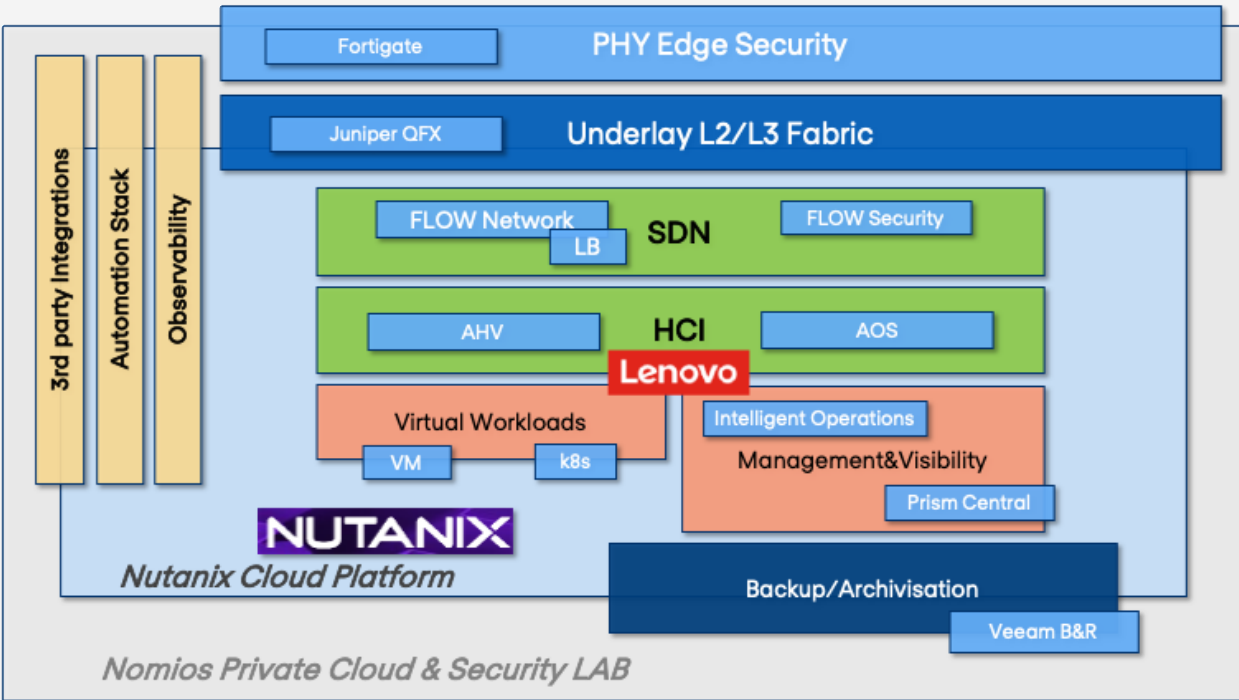
# Nomios private cloud & security lab



powered by



# Nomios Private Cloud & Security LAB



## aws Stack

## DIY Software Stack



## NCP Software Stack



## VCF Software Stack

Management

Additional Add-ons

Client Self-Service Portal

Systems Manager Automation

CloudWatch, CloudMap

Additional Add-ons

Moxo

Terraform

Datadog

Additional Add-ons

App Automation/Self Service

App Automation

Intelligent Ops, Governance  
Cost, Data Lens

Additional Add-ons

VCF Automation

VCF Automation

VCF Operations

DB

RDS

Home Grown DB Tools

NDB

Data Services Manager

Compute

EC2

AMI

EKS

Lambda

KVM

VM Template/Blueprints

Red Hat OpenShift

Cloudflare Workers

AHV

VM Template/Blueprints

NKP

X-Play

vSphere

VM Template/Blueprints

VKS

VCF Automation ABX

Storage

EFS

EBS

S3

NTAP

Pure

Isilon

Nutanix Unified Storage

AOS

Nutanix Unified Storage

vSAN File Service

vSAN, vSAN Max

Object Storage Extension

Network & Security

VPC + Network Svcs

IAM

Network Firewall

ELB

Juniper Apstra/Cisco ACI (but  
no VPCs)

Active Directory

Agent Based, Network Firewall

F5

Flow Networking, VPC

Prism Central IAM

Flow Security + 3<sup>rd</sup> party NFV

Flow NLB, 3<sup>rd</sup> party LB

NSX VPCs + NSX Network Svcs

VCF Identity Broker

vDefend DFW + ATP

Avi Load Balancer

nomios

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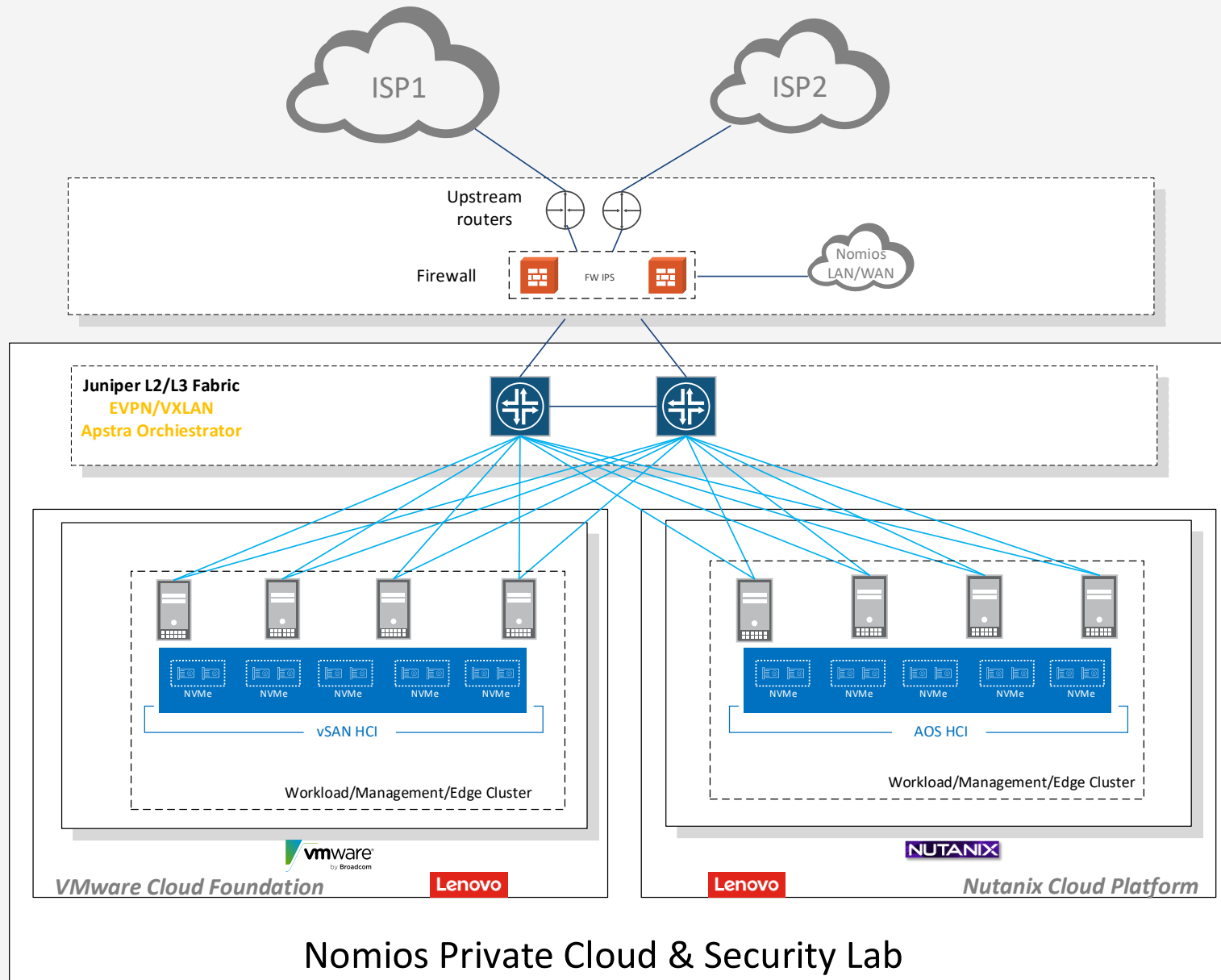
Trellix

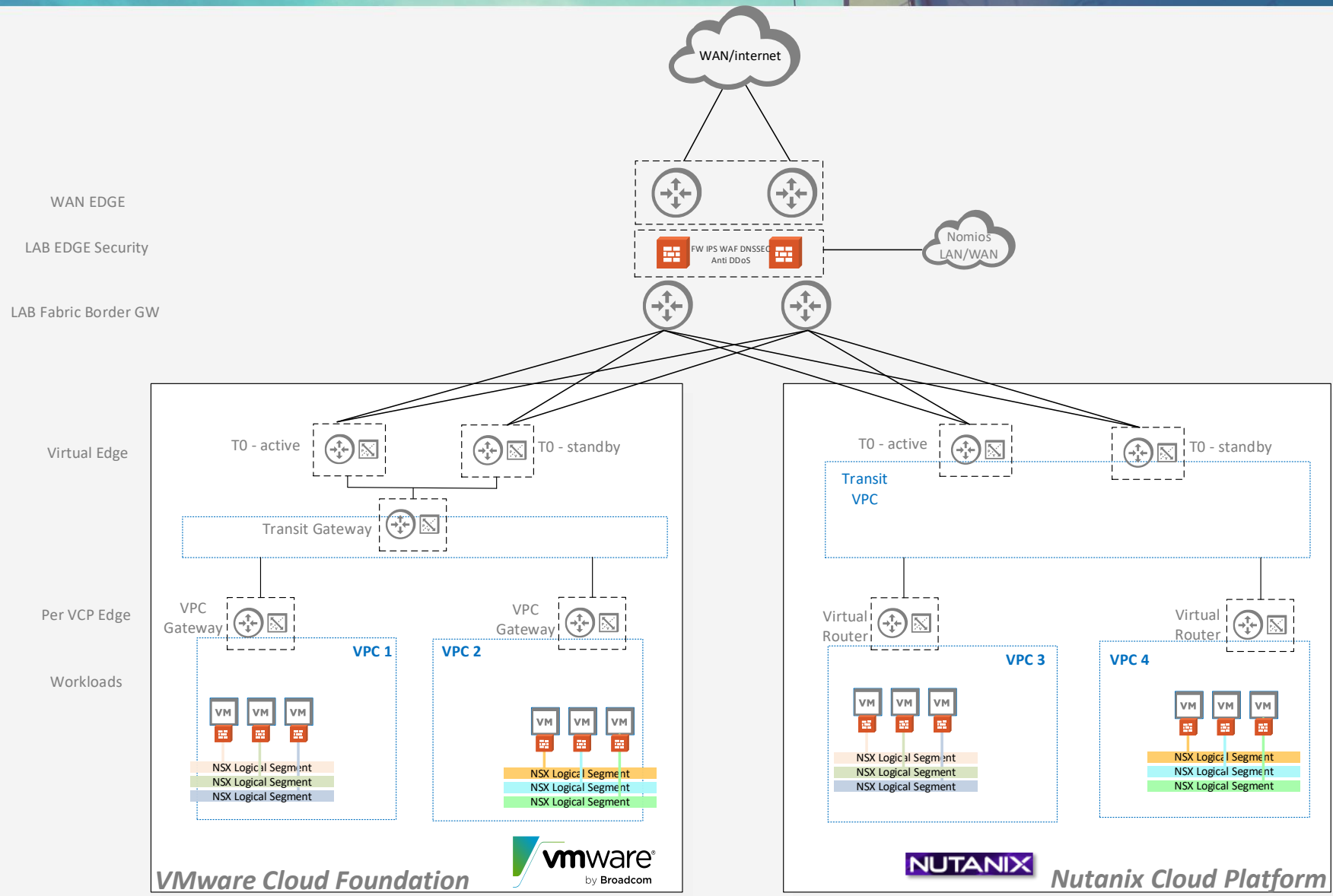
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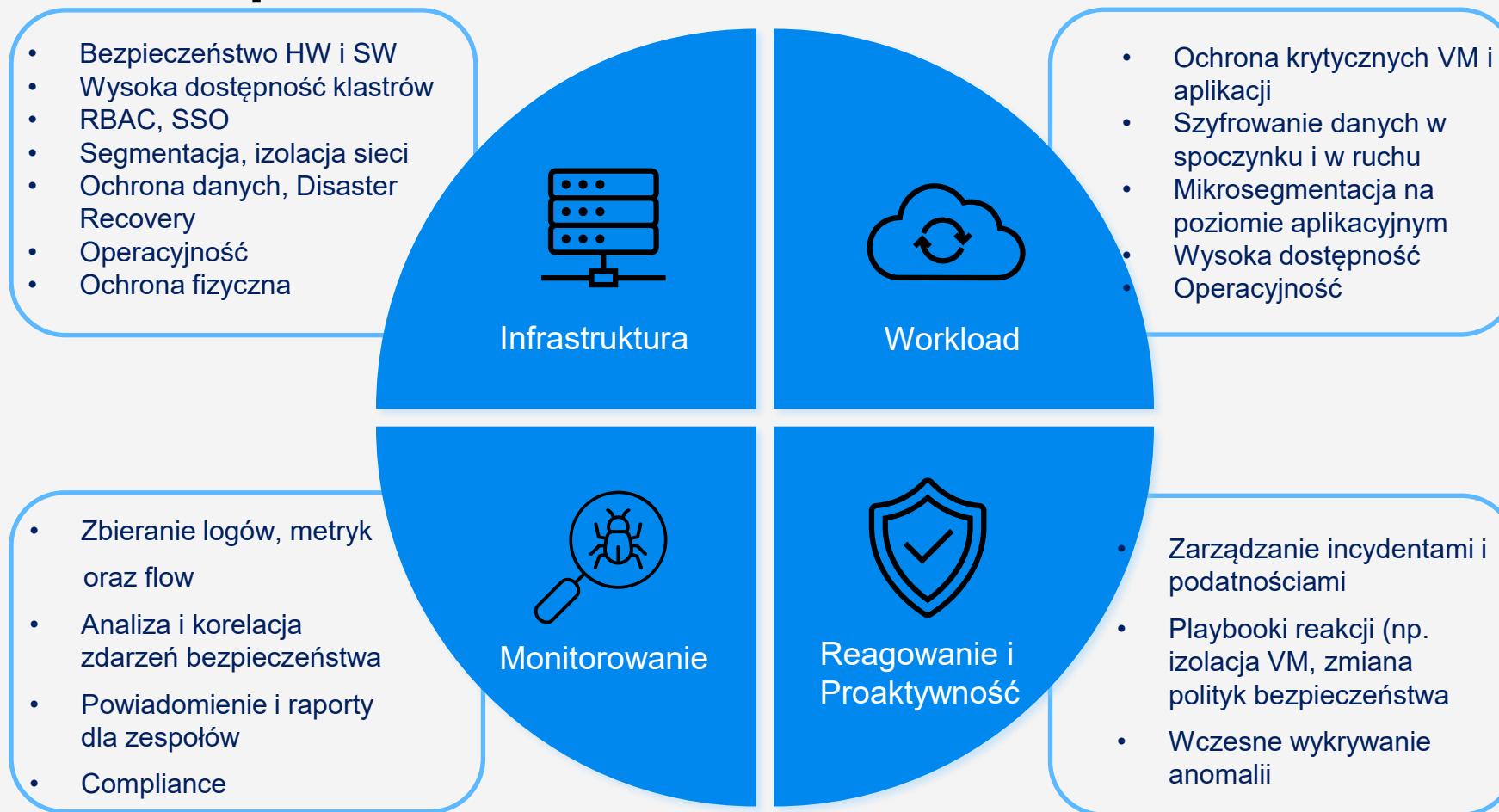






## Nomios Private Cloud & Security LAB

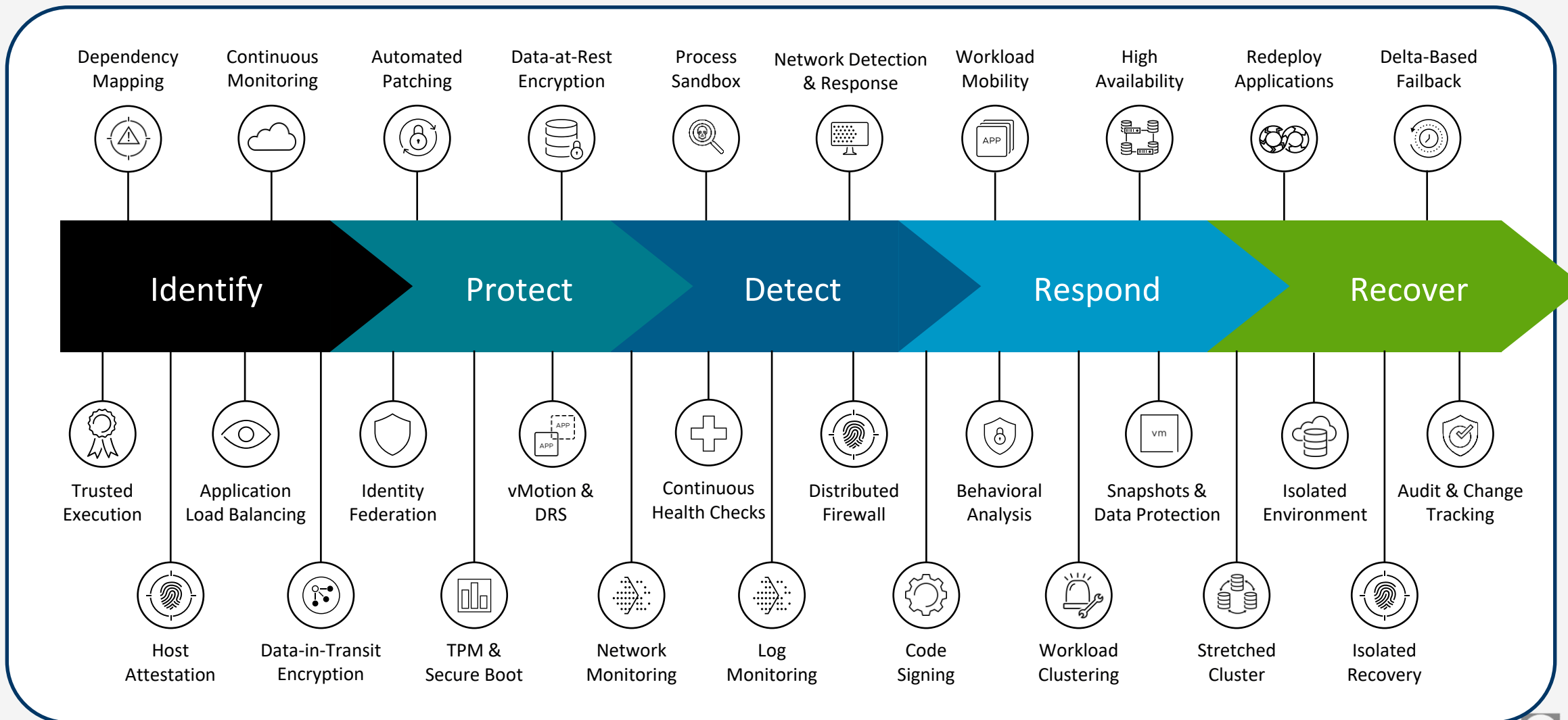
# Bezpieczeństwo jest wielowymiarowe - multibezpieczeństwo



# Datacenter skupia jak w soczewce wiele aspektów bezpieczeństwa

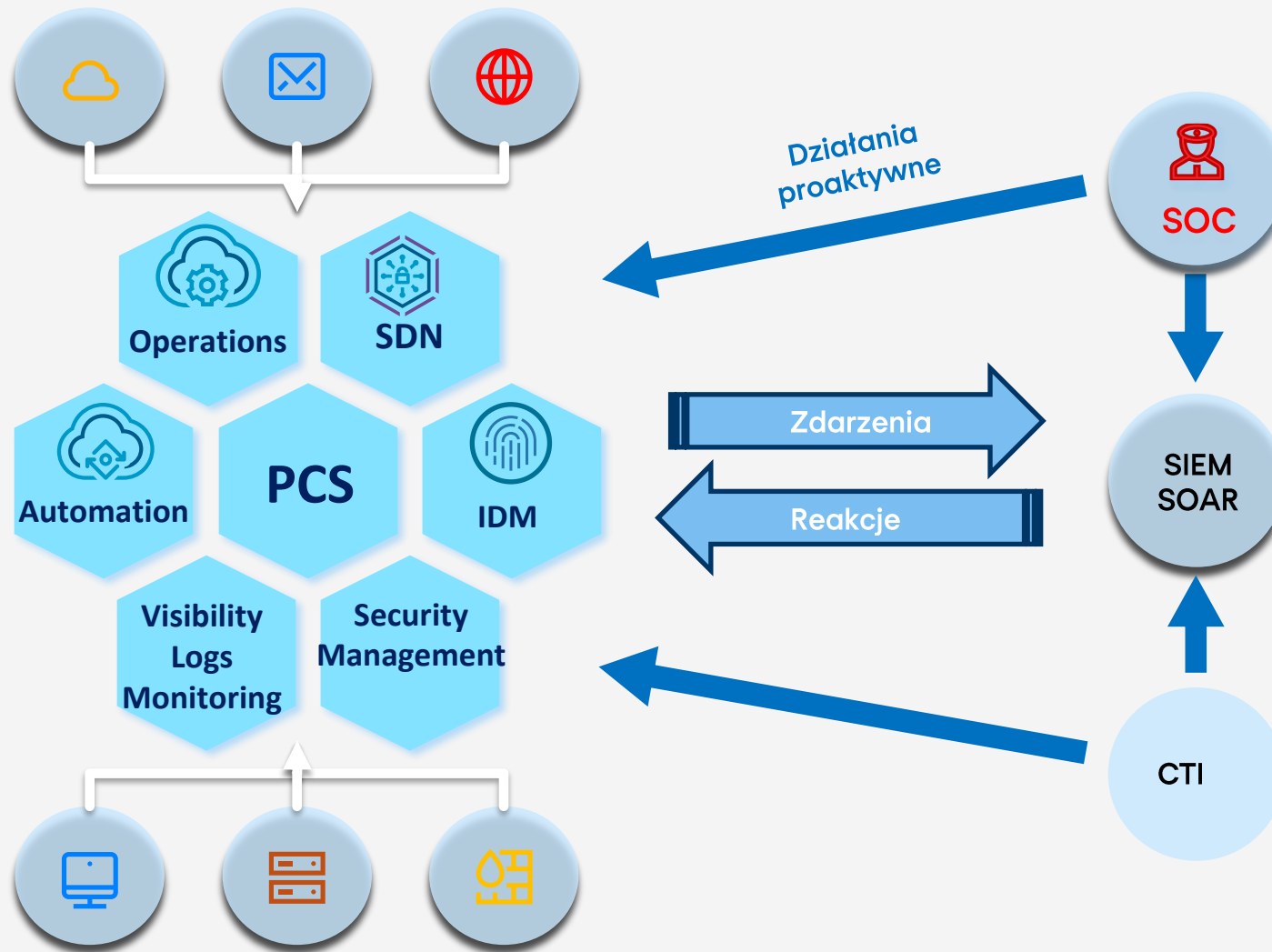
- Bezpieczny dostęp
- Bezpieczeństwo danych
  - Wiele kopii danych – dostępność danych
  - Kopie bezpieczeństwa – ochrona danych
  - Szyfrowanie w ruchu i w spoczynku – ochrona danych
- Business Continuity and Disaster Recovery
- Network and workload security
  - IPS/AntyMalware/NDR, WAF
  - Mikrosegmentacja – rozproszony FW
  - Izolacja środowisk – VPC
  - Zarządzanie podatnościami
- Monitorowanie i widoczność

# Bezpieczeństwo



# Synergia - Od incydentu do reakcji

- Operations/Observability
- VPC
- Mikrosegmentacja
- IDPS
- NTA
- NDR
- AntiMalware
- 3<sup>rd</sup> party integrations



- Analiza
- Onboarding
- Definicja ryzyk
- Remediacja
- Incident Response
- Threat Hunting
- Analiza Malware
- Redukcja powierzchni ataku
- Raportowanie usługi



# NOMIOS PCS LAB

## YOUR SECURE PRIVATE CLOUD



### IDENTITY & ACCESS LAB

- IAM, SSO, MFA Everywhere
- Zero Trust Access
- Least Privilege
- Just-in-Time Access
- No Standing Access

SECURE ACCESS. EVERY TIME.



### NETWORK FORTRESS LAB

- Private Networks
- Segmentation
- Firewalls
- IDS / IPS
- DDoS Protection
- VPN Gateways

YOU BUILD. WE PROTECT.

NO PEEKING.  
NO IMPACT.  
JUST TESTING.



LAB  
NOT PRODUCTION  
ISOLATED & SAFE

### THIS IS A LAB ENVIRONMENT

Built for Testing.  
Made for Demonstrations.  
Safe. Isolated. Secure.

### THREATS? NO PROBLEM.

We monitor 24/7/365  
so you can sleep  
soundly.

### THREAT DEFENSE LAB

- WAF, EDR, XDR, SIEM
- Real-time Detection
- Behavior Analytics
- Automated Response
- Bad Guys: Blocked



### AUTOMATION & ORCHESTRATION LAB

- Infrastructure as Code
- Policy as Code
- Self-Healing
- Auto-Scaling
- Zero-to-Cloud in Minutes

AUTOMATE. ORCHESTRATE. ACCELERATE.



### ISOLATED TENANTS

- Each Org Gets Their Own Space
- Fully Isolated
- No Peeking, Ever.

YOUR SPACE. YOUR RULES.



### ENCRYPTION EVERYWHERE

- Data at Rest
- Data in Transit
- Always Encrypted

ENCRYPTED. ALWAYS.

TRY TODAY.  
INNOVATE  
TOMORROW.

EXPLORE. TEST. DEMONSTRATE. INNOVATE.

SPIN UP  
TEAR DOWN  
REPEAT

REAL TOOLS  
REAL DATA  
REAL RESULTS



### OBSERVABILITY LAB

- Metrics, Logs, Traces
- Dashboards & Alerts
- Real-time Visibility
- Only When It Matters

SEE EVERYTHING. STAY AHEAD.



### COMPLIANCE & GOVERNANCE

- Policies Enforced
- Audit Ready
- Data Residency
- Regulatory Friendly

GOVERNED. AUDITABLE. TRUSTED.

### COST CONTROL LAB

- No Bill Shocks Here
- Quotas & Limits
- Right-sizing
- Showback / Chargeback

CONTROL COSTS. MAXIMIZE VALUE.

TEST BOLDLY.  
DEMO CONFIDENTLY.  
INNOVATE SAFELY.



### HIGH AVAILABILITY LAB

- Multi-AZ / Region
- Auto-Failover
- Load Balancing
- 99.99% Uptime Goal

BUILT TO STAY UP.

### CONTAINER & APP LAB

- Kubernetes
- Containers
- Carverless
- Apps Love It Here

RUN ANYTHING. ANYWHERE.



### DEV & COLLABORATION LAB

- Git Repos
- CI/CD Pipelines
- Secrets Management
- Team Workflows
- Collaborative by Design

BUILD, TEST, DEMO. TOGETHER.



### DATA SERVICES LAB

- Databases
- Object Storage
- File Storage
- Cache
- Queues
- Analytics

DATA. READY WHEN YOU ARE.



100% ISOLATED  
No impact on  
production



SAFE TO BREAK  
Break it here,  
not out there



REAL TOOLS  
Enterprise-grade  
Everything



ON-DEMAND  
Spin up in minutes,  
Tear down in seconds

MISSION: ACCELERATE INNOVATION

STATUS: LAB ENVIRONMENT

OUTCOME: PEACE OF MIND

LEARN FASTER  
Experiment.  
Learn. Improve.

DEMO BETTER  
Impress with  
Confidence

SECURE ALWAYS  
Security by design.  
Always on



THIS IS A LAB  
FOR TESTING &  
DEMONSTRATIONS.  
NOT PRODUCTION.

# Wykorzystanie lab

- Konferencja HackBreakers
  - Private Cloud & Security Live Demo
- Nowoczesna chmura prywatna w oparciu o Nutanix NCP
  - Warsztaty całodniowe z Live Demo
- Nowoczesna chmura prywatna w oparciu o VMware VCF
  - Warsztaty całodniowe z Live Demo
- Konferencja Fast Forward to Private Cloud
  - SDN Security oraz integracja i synergia z SOC/SIEM/SOAR
  - Live Demo
- PoC i prezentacje technologii dla naszych klientów



# Dziękuję za uwagę!

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