





# Security Summit

Roma, 19 giugno 2024



### **Ransowmare:**

# La Cyber Resilience di Zerto per ridurre i tempi di inattività in caso di attacchi

Manolo Rizzuto | EMEA Presales Engineer, Zerto, a Hewlett Packard Enterprise Company

Alessandro Ercoli | System Engineering Manager, Aruba, a Hewlett Packard Enterprise Company

19 giugno 2024 orario 14.00 – 14.40



## Luca Bechelli

COMITATO SCIENTIFICO

PARTNER @P4I – GRUPPO DIGITAL360







# Manolo Rizzuto

EMEA Presales Engineer, Zerto, a Hewlett Packard Enterprise Company







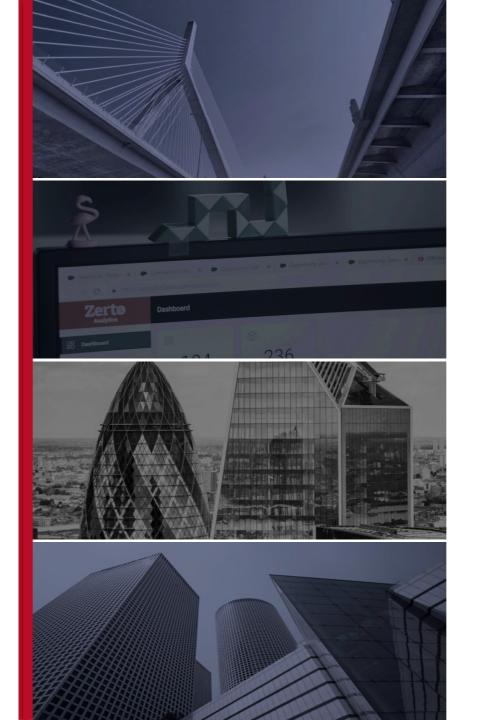






### WHAT WE DO

Protect, recover, and move data and applications for continuous availability across on-premises, hybrid, and multi-cloud environments



ESTABLISHED

2009

Offices Worldwide

**PARTNERS** 

2,000

Including Amazon, IBM, Microsoft, and 350+ MSPs

**CUSTOMERS** 

9,500

100+ Countries



## CONTINUOUS PROTECTION FOR ANY APP, ANY CLOUD, ANY THREAT

Orchestration | Automation | Analytics



# Ransomware Resilience

Real-time detection meets real-time protection and recovery



### Disaster Recovery

Foolproof recovery with fastest RTOs and RPOs



### Multi-Cloud Mobility

Freedom to innovate across clouds

**Continuous Data Protection** 

















# **Analytics** Orchestration & Automation Fast Failover & Failback Automated Protection **API-First Continuous Data Protection** Near-Synchronous Replication Journal-Based Recovery App-Centric Protection Real-Time Encryption Detection











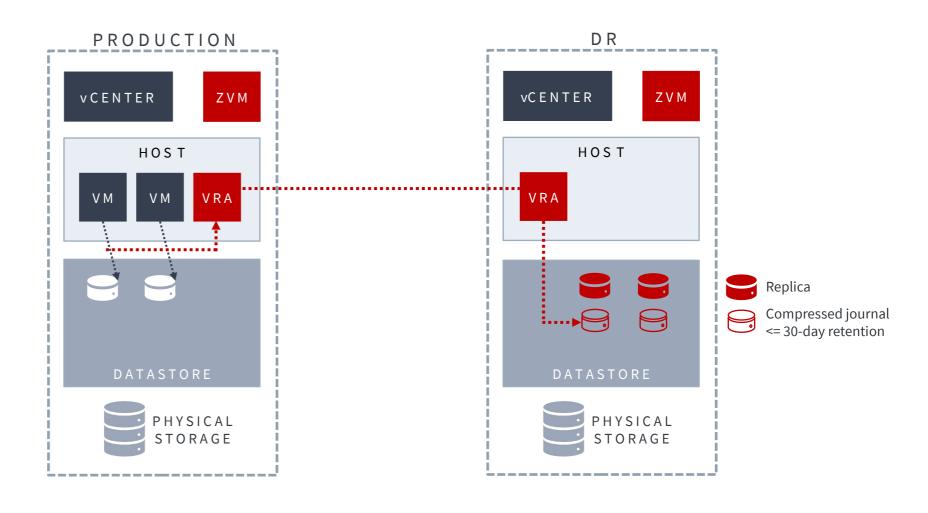




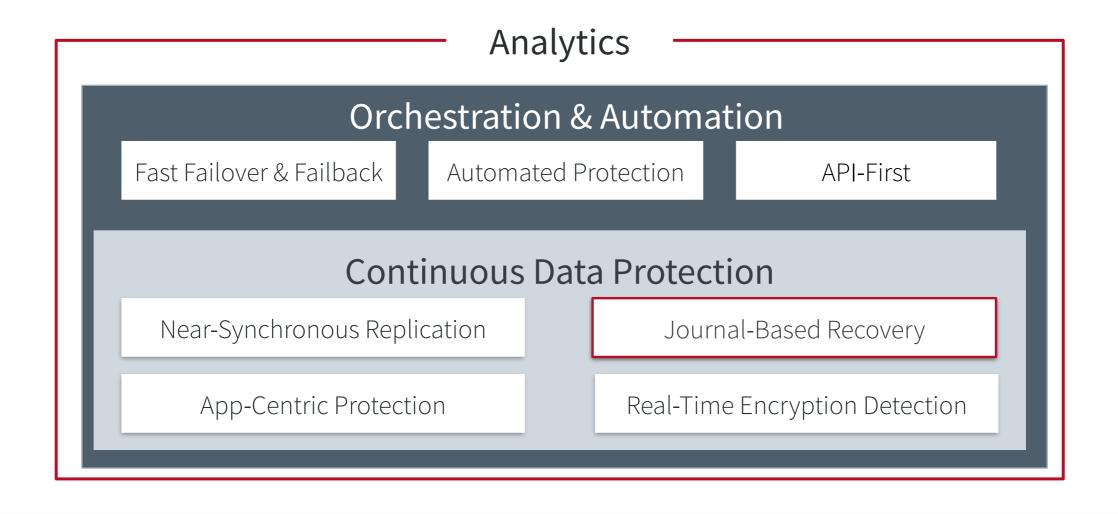


# Zerto Architectures

Continuous replication to disaster recovery site



















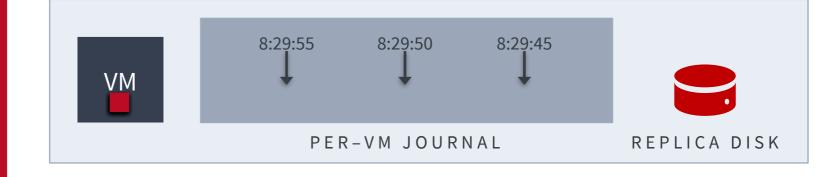




# Journal-Based Recovery

1

Writes from the VM are written into the journal (FIFO queue), maintaining write-order fidelity. Checkpoints are inserted in flight.





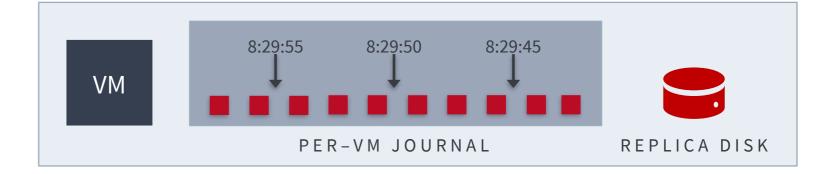
# Journal-Based Recovery

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2

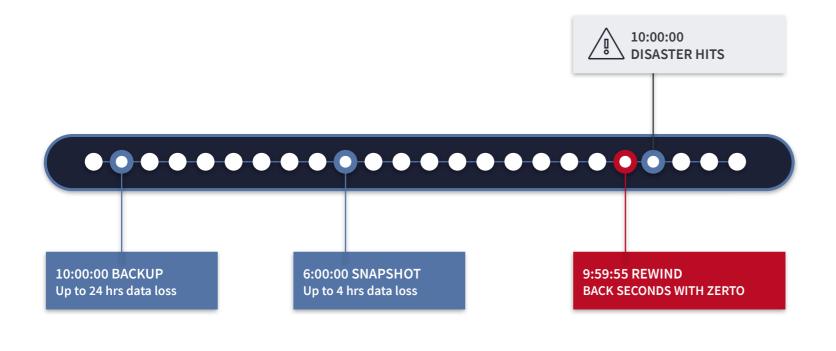
As new writes continue to enter the journal, older writes are pushed out to the replica disk(s).





### **UNIQUE JOURNALING**

Granular, point-in-time recovery with the dynamic Zerto journal



#### **RECOVER**

in minutes to a state seconds before an attack or disruption

#### **MINIMIZE**

data loss & downtime with low RPOs and fast RTOs

#### **NEUTRALIZE**

ransomware by refusing to pay and getting your data back

# JOURNAL-BASED RECOVERY

Rewind and recover

to any point in ti

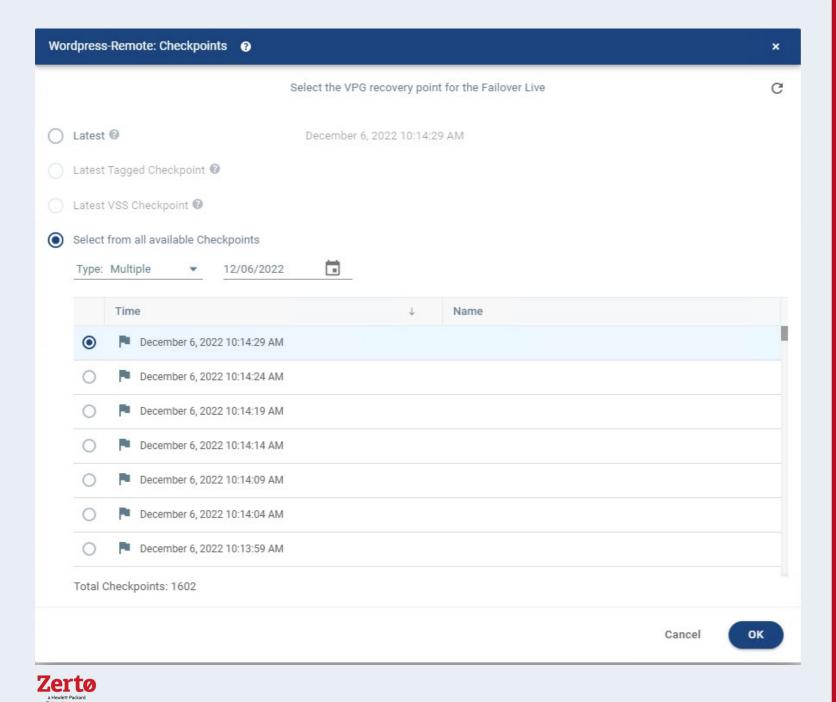






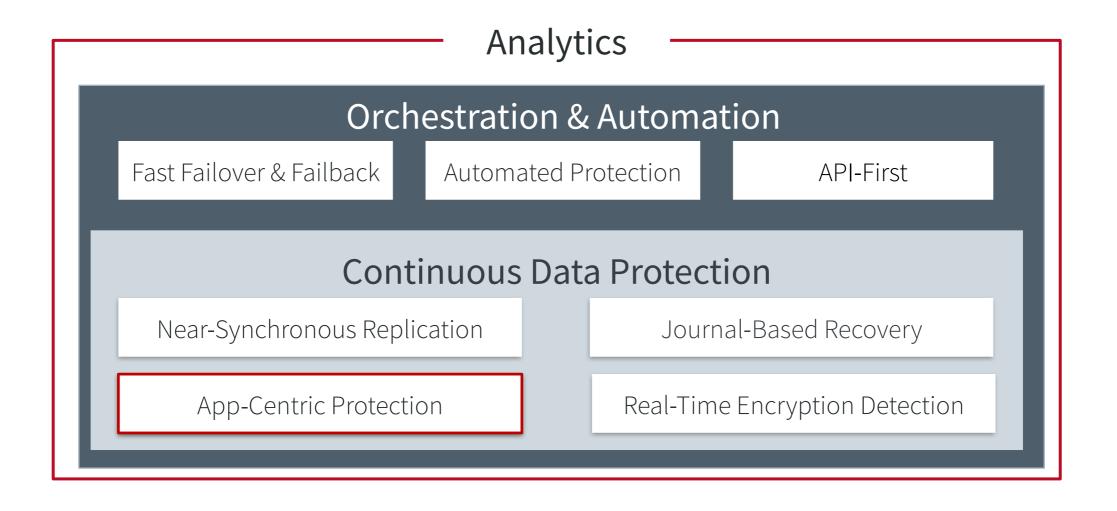






### JOURNAL TECHNOLOGY

- Simply rewind to any point in time
- Protection against logical failures
  - Not just disasters
- Recover from seconds ago
  - ► Not the last backup or snapshot
- Application-centric protection
  - ► With write-order fidelity
- Recover multi-VM apps consistently
  - Down to the second













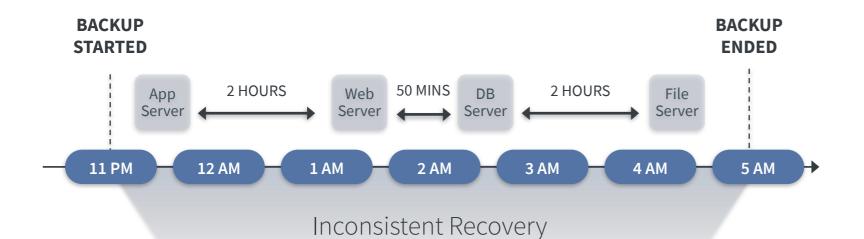


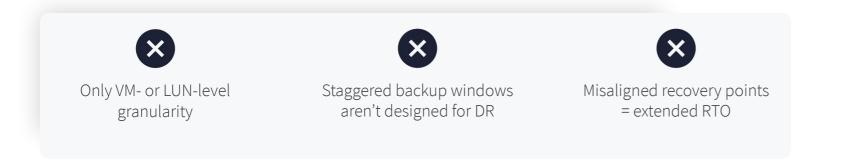




### **Application-Agnostic Protection**

Legacy approaches leave protection gaps by not focusing on apps



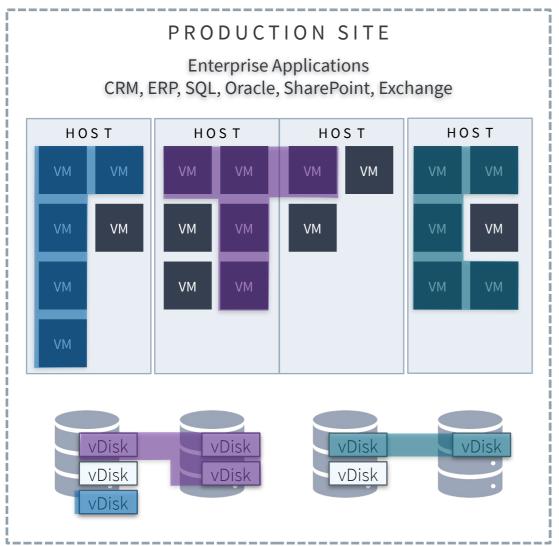


## APPLICATION-CENTRIC PROTECTION

Protect the application, not only the component parts

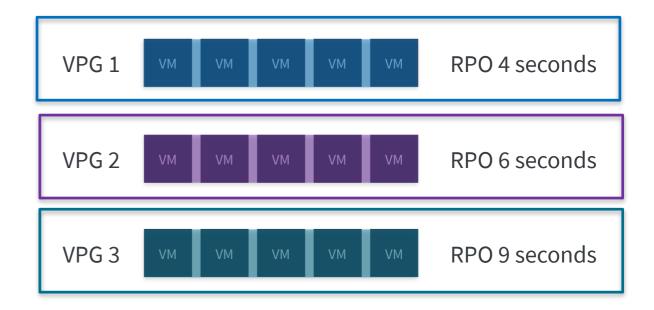


# Application-Centric Protection and Recovery



### Virtual Protection Group

- Simple, scalable protection
- Write-order fidelity and consistency
- Preconfigured with recovery settings
- Supports vMotion, Storage vMotion, etc.





# **Analytics** Orchestration & Automation Fast Failover & Failback Automated Protection **API-First Continuous Data Protection** Near-Synchronous Replication Journal-Based Recovery App-Centric Protection Real-Time Encryption Detection

















# Unlock Streaming Inline Detection



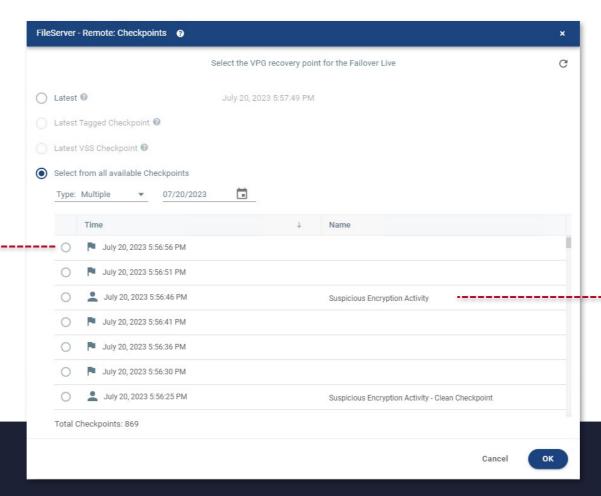
#### **Zerto Real-Time Detection**

Real-time detect > Upstream alert > Live test > Direct recovery



## **Replicate and Detect**

**Replicate** every change and log as recovery checkpoints every 5-15 seconds

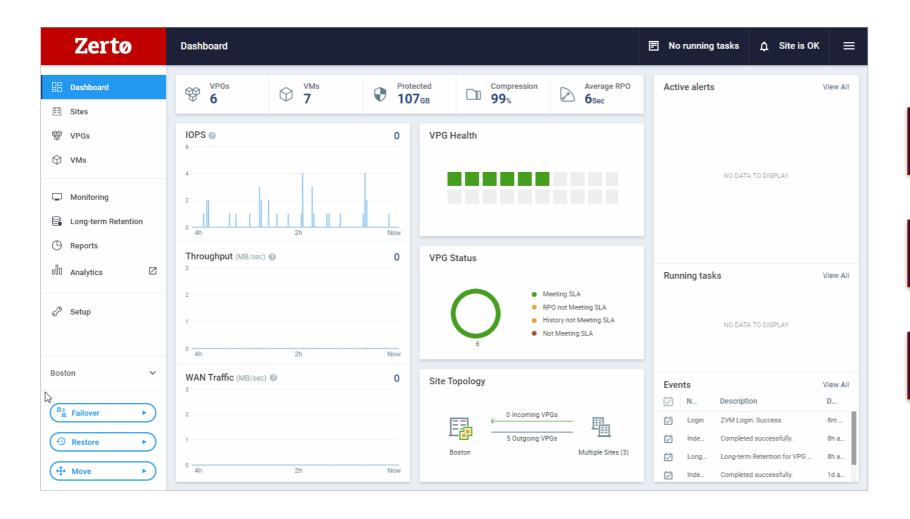


**Detect** suspicious writes as they stream in and flag for admins to investigate

"[Zerto's] real-time ransomware detection puts us in a much stronger position to both identify and mitigate ransomware attacks. This gives us confidence that we can proactively meet the risks presented by ransomware."



# Simple Live Failover Workflow



- Select VPGs
- 2 Select options
- 3 Start failover



### PRINCIPALI CARATTERISTICHE

### **SEMPLICITÀ**

- Solo Software
- Singola webgui
- Architettura scale-out
- Indipendenza da Hardware
- No agenti, snapshot, schedulazioni
- Nessun impatto su produzione
- Implementazione rapida
- Failover in 3 click

#### **SICUREZZA**

- Appliance linux virtuali prehardenizzati e pre-configurati
- Encryption end to end
- MFA autenticazione multi fattore
- RBAC accessi basati su ruoli
- Ransomware: inline REAL-TIME encryption detection & alerting

#### **CARATTERISTICHE**

- RPO più basso del mercato (5-10 secondi)
- RTO di minuti
- Coerenza applicativa
- One-to-Many (3 copie)
- Replica ALWAYS-ON
- Journal: recovery point-intime granulare
- Test DR non "disruptive"

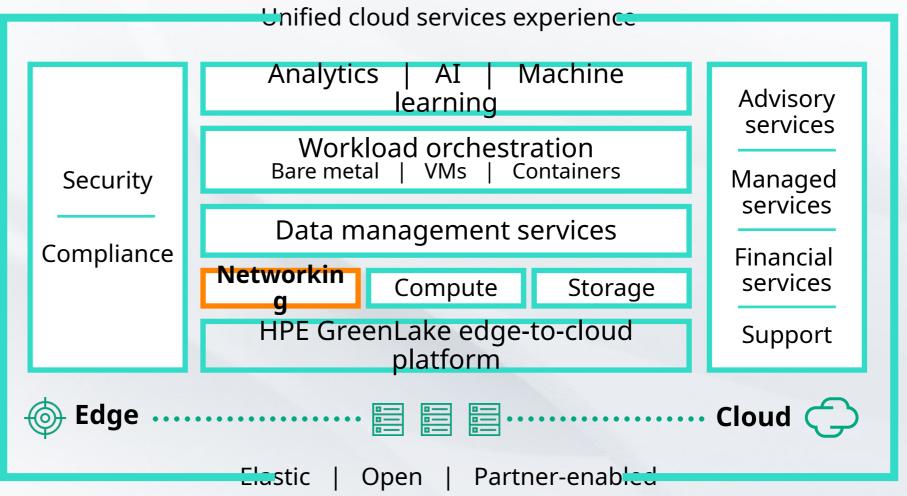
Continuous Data Protection

Orchestrazione tra on-prem, Cloud pubblico e MSP

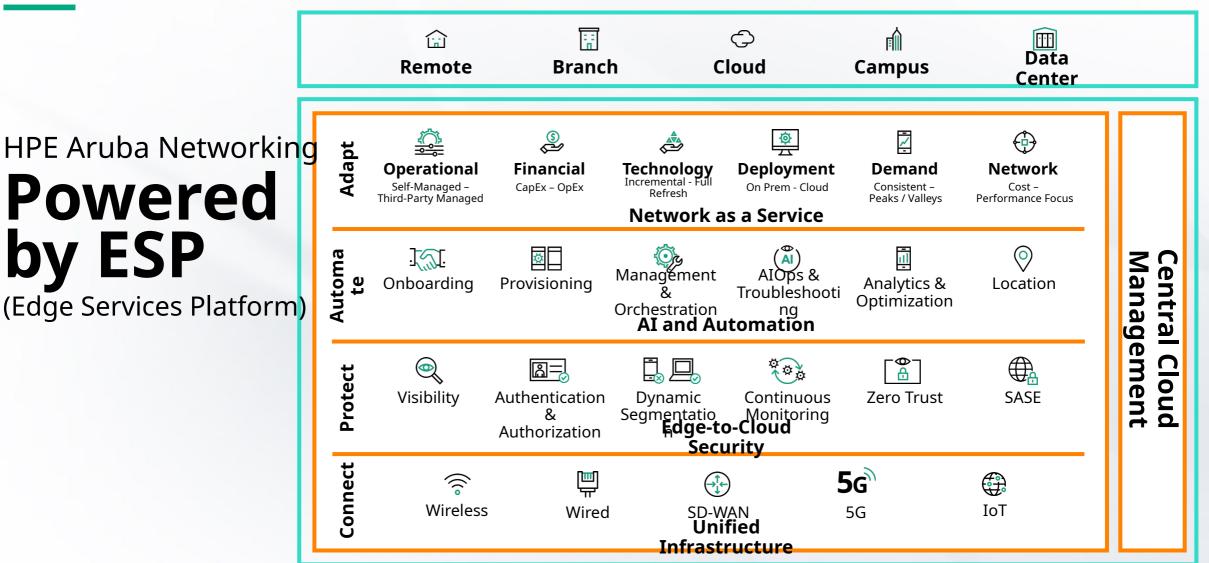


# Hewlett Packard Enterprise The Edge-to-Cloud Company

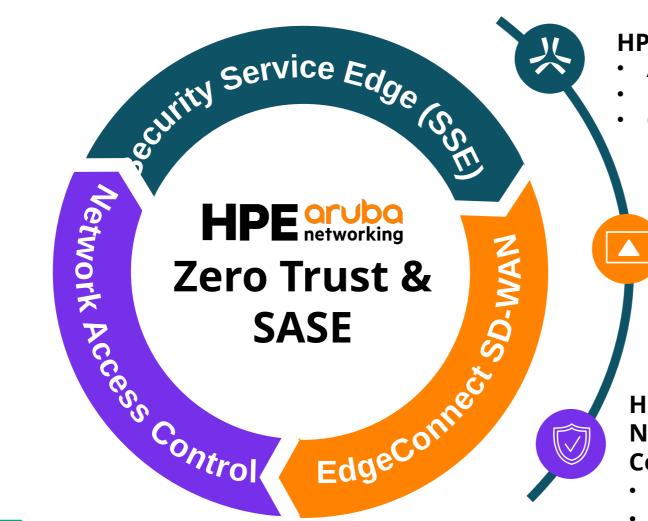
One HPE: Better together



# Orchestrating network services from edge-to-cloud



# HPF Aruba Network ing Approprieto Zero Trust and SASE matter where they connect



### **HPE Aruba Networking SSE**

- Agent/Agentless ZTNA
- Unified policy management
- Global PoPs

### **EdgeConnect SD-WAN**

- Secure SD-WAN
- Multi-cloud
- Improved QoE

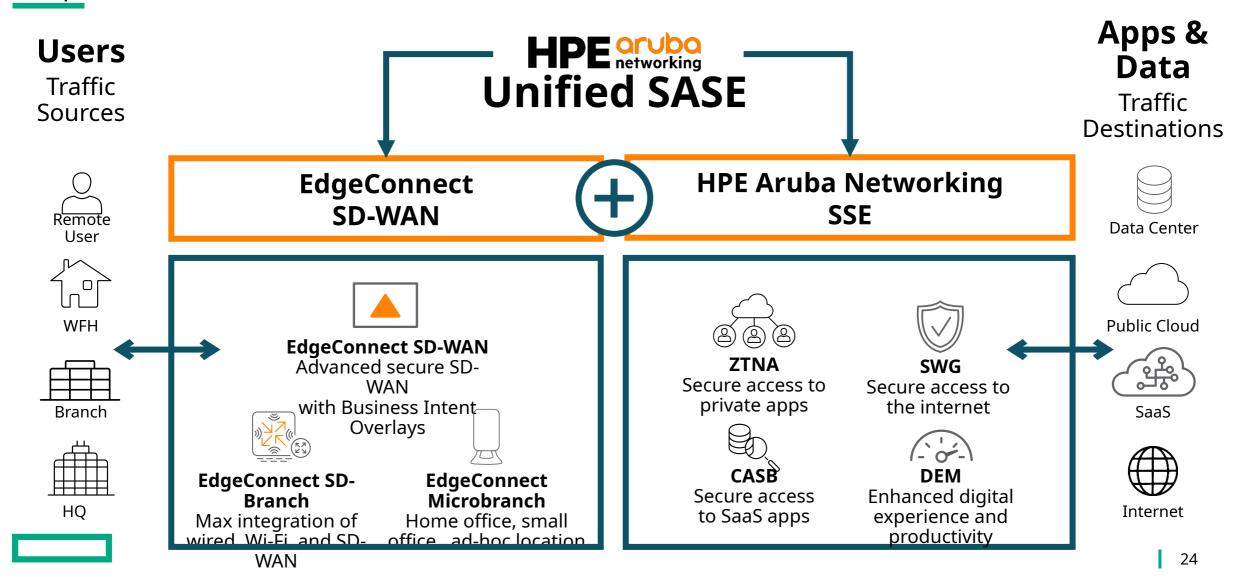
### HPE Aruba Networking Central NetConductor & ClearPass Network Access Control

- AI-powered client visibility & profiling
- Dynamic Segmentation
- Continuous Monitoring

  General | Authorized

  Authorized

### HPE Aruba Networking Unified SASE Deploy industry-leading Edge Compect SD-WAN with the cloud-native HPE Aruba Networking SSE platform



### **EXPERIENCE ZERTO FIRSTHAND**



See Zerto in action with a Zerto expert. Email for details:

info@zerto.com

Test drive Zerto for free in self-paced, on-demand labs:

zerto.com/labs

Try Zerto for 14 days on your own infrastructure:

zerto.com/free-trial

Read honest reviews of Zerto from real customers:













Grazie



a Hewlett Packard Enterprise company

# Q&A









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### Contatti

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