

Achieving an uninterrupted business with HPE Zerto Software



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Top customer challenges



Cyber threats

\$1.5M

average cost of recovery from a ransomware attack in 2025



Disruptions

100%

of organizations reported downtime-related revenue losses in 2025



Cloud complexity

97%

of organizations admit struggling with their cloud infrastructure, with 98% facing cost challenges.



Continuous availability from edge to cloud

Orchestration | Automation | Analytics



Disaster recovery

Radically reduce data loss and downtime with lowest RTOs and RPOs



Cyber resilience

Real-time detection, protection, and cyber recovery



Multi-cloud mobility

Freedom to move and protect across clouds

Continuous data protection



Leader in disaster recovery since 2011

Eliminate data loss and downtime with continuous data protection



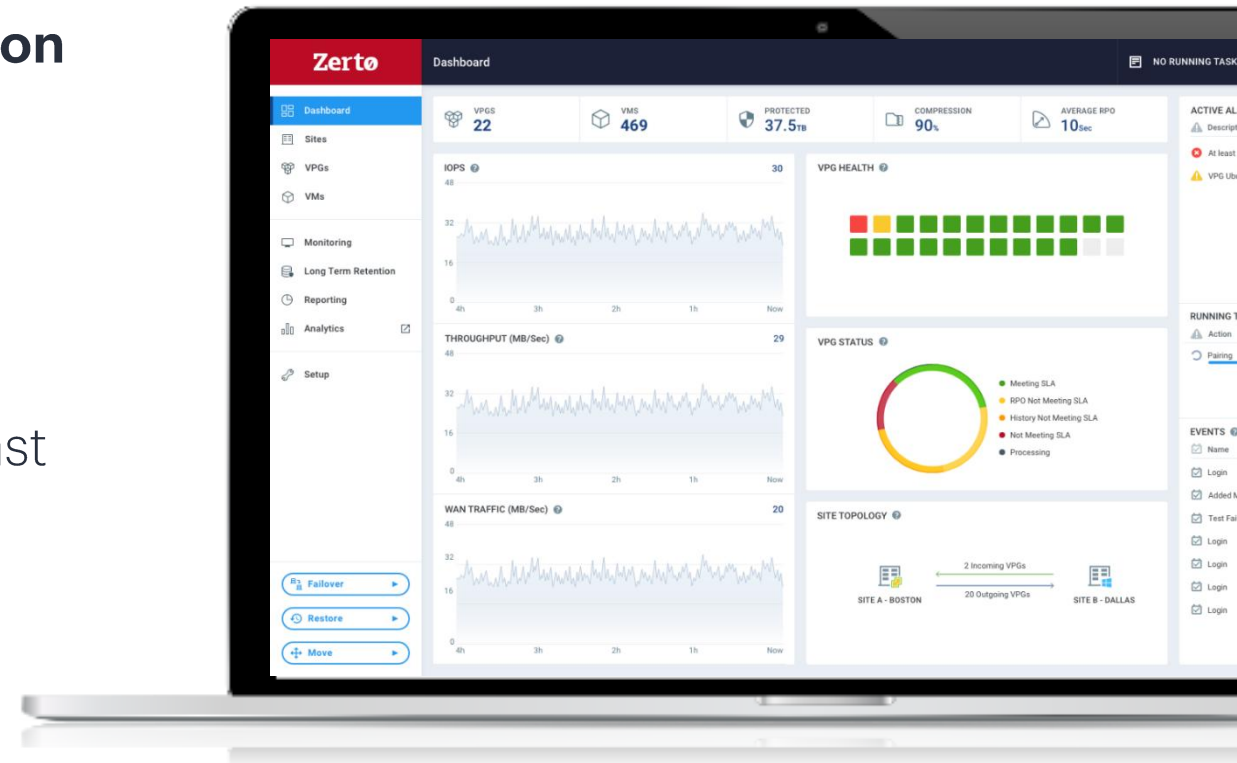
Software-only, hypervisor-based replication for flexible, always-on protection without storage lock-in



RPOs of seconds and RTOs of minutes to quickly restore operations by rewinding and resuming from any point in time from the past

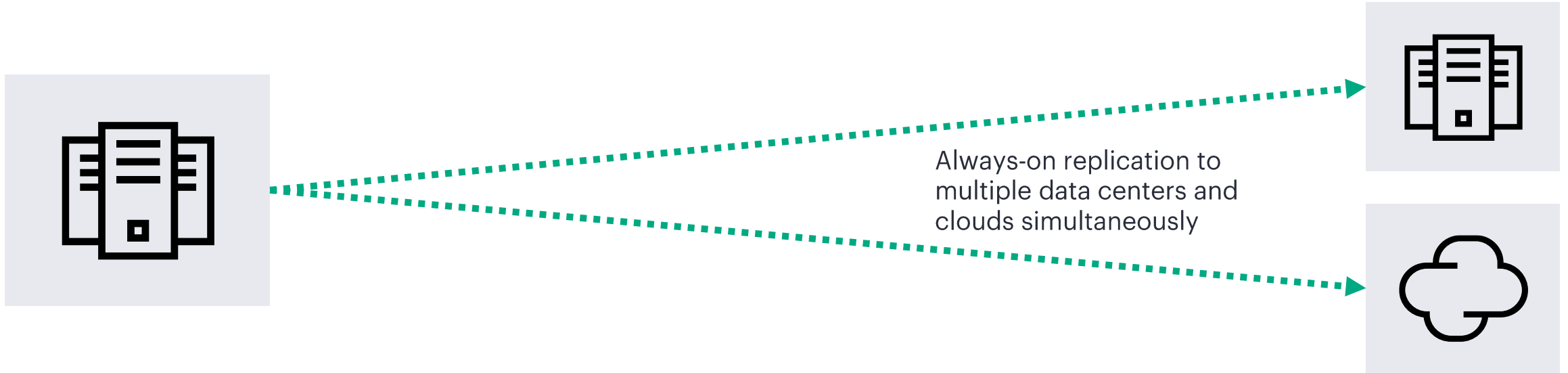


Orchestrated failover, failback, and non-disruptive testing to easily recover files, VMs, or multi-VM app stacks



Continuous data protection

Agentless, real-time replication of every data change



No impact to production or performance

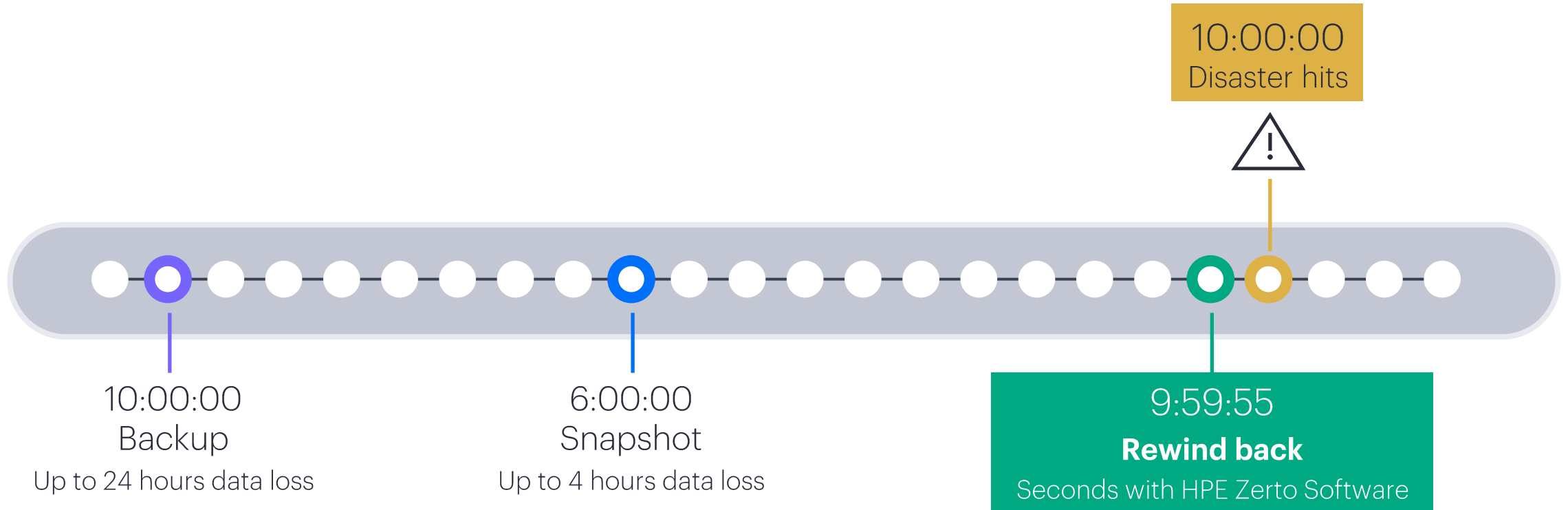
No scheduling, no snapshots, no agents

In-line, real-time data encryption detection

No vendor or hardware lock-in, replicate across different storage types

Unique journaling

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



Detect

anomalous encryption in real-time
to alert to possible ransomware

Respond

quickly to minimize data loss and
downtime with low RPOs and fast RTOs

Recover

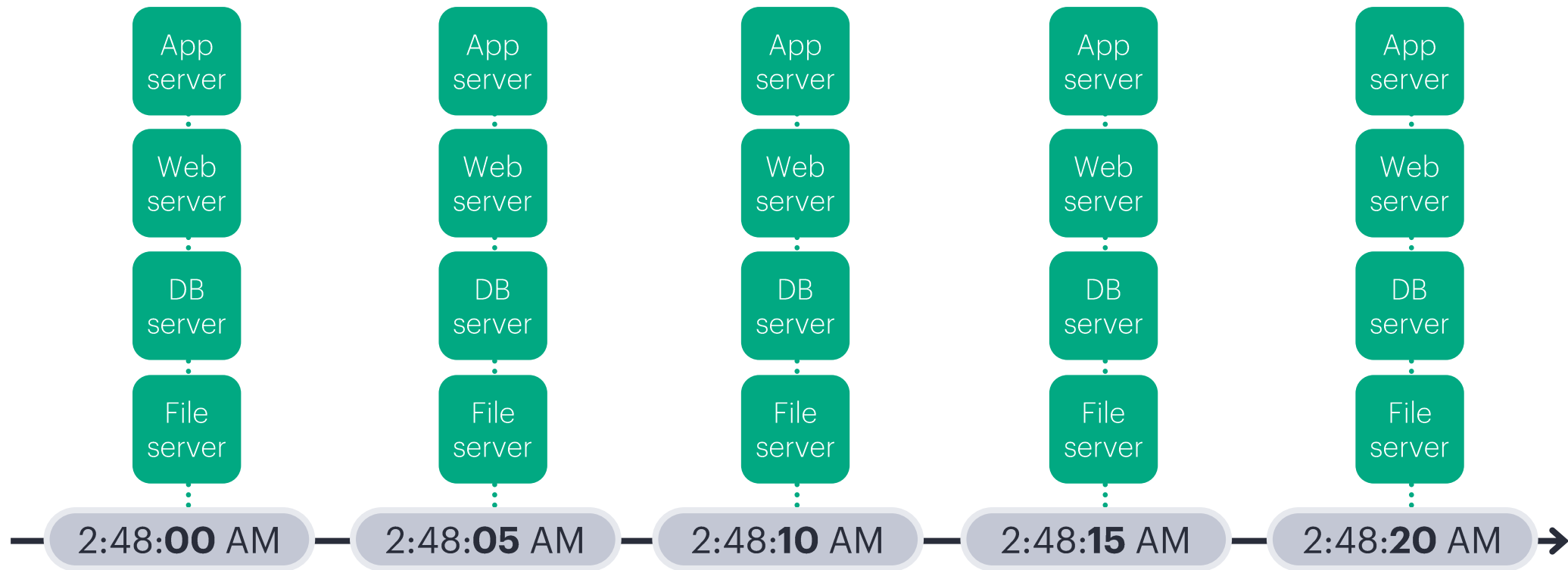
in minutes to a clean state seconds
before an attack or disruption



Scheme: Zerto

Application-centric protection

Replicate and recover multi-VM app stacks as one consistent whole



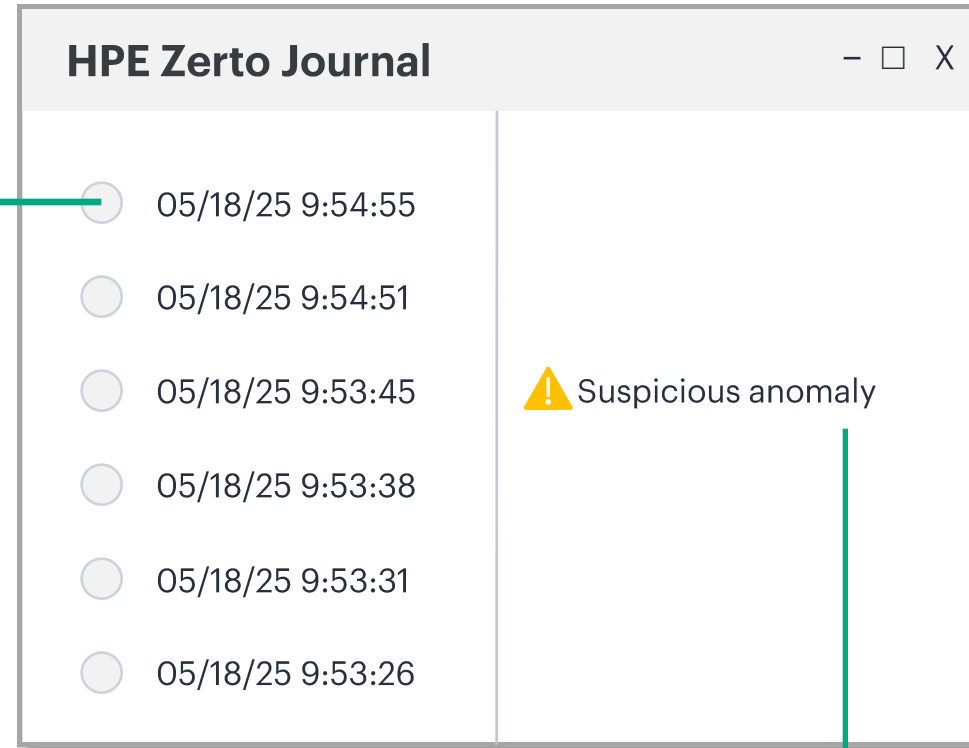
Write-order fidelity and validation across all VMs or containers in an app

Consistent restore points even for VMs on different datastores or hosts

No staggered backup windows and no scheduled replication jobs

Replicate and detect

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



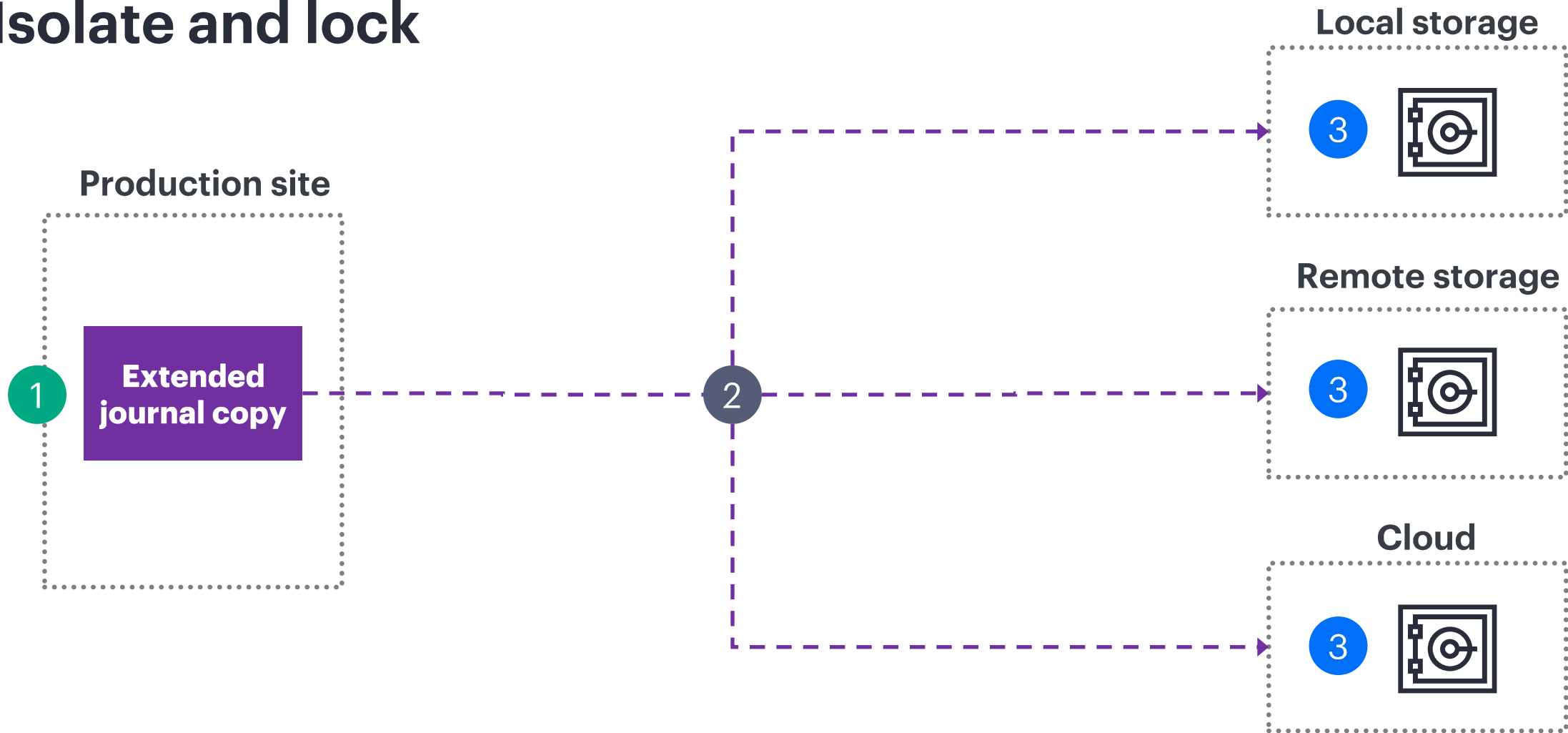
Detect suspicious writes as they stream in and flag for admins to investigate

“[HPE 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.”

– Network admin at manufacturing customer

Isolate and lock



1 Create extended journal copies of the HPE Zerto recovery journal

2 Store journal copies in isolated repositories locally, remotely, or in the cloud

3 Lock journal data copies with storage immutability

Migrations / Application mobility

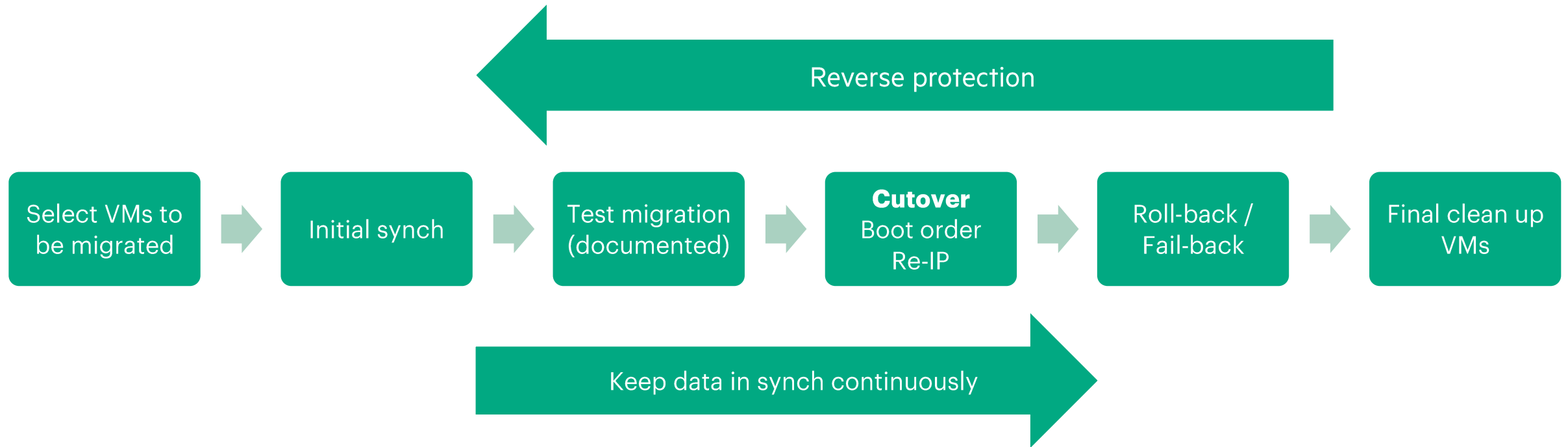


Things to consider during migrations

- **No agent** to be installed – unless you own the guest OS and only have few servers to migrate
- Secure scale out architecture proven in large scale migration projects
- Main **data transfer prior to cutover** phase
- Test capabilities with documentation prior to actual migration even for complex applications
- **Roll-back** / Fail-back possible even days after actual migration
- “Never change a running system!”. During migration? LOL
Be prepared for unusual increase of failures and errors
=> Recovery becomes more important than ever during migration projects
- Technical details: boot order, Re-IP, bandwidth throttling, anomaly detection, ...



Migration workflow



Result: Prepared for success
Always in control
Planned / Tested / Documented / Protected

The HPE Zerto Software difference



Continuous data protection

- Real-time replication and detection
- Journal-based recovery
- App-centric protection



Operational efficiency

- Built-in orchestration
- API-first approach
- Non-disruptive testing



Multi-cloud mobility

- Public, private, hybrid
- Cloud-native
- DRaaS

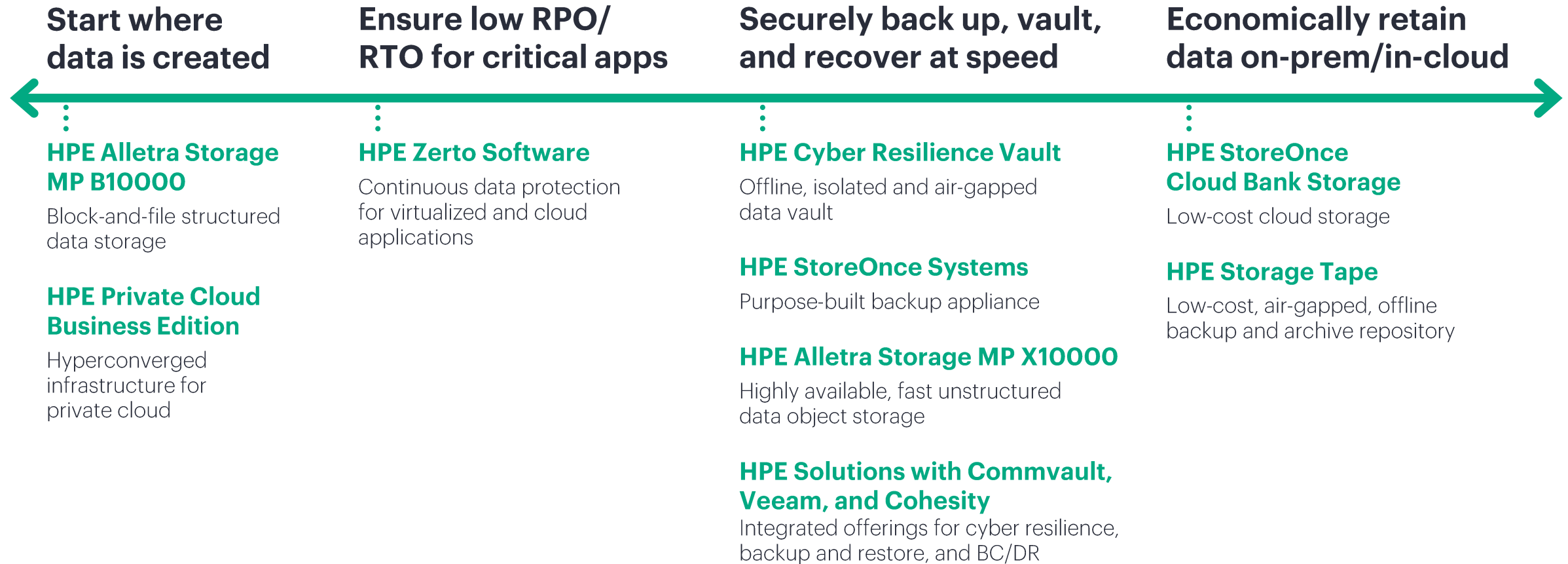


Simplicity at enterprise scale

- Easy, software-only deployment
- Flexible architectures
- Analytics and reporting

Comprehensive data protection with HPE

Building resilience from edge-to-cloud and source-to-target



Purchase or consume as-a-service | Self-manage or partner/HPE-managed for you

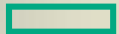
Resources

[HPE Zerto Software](#)

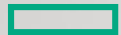
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Thank You



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