

NASHVILLE

Zerto SON

2 0 1 9



Take Me Home, Ops Road

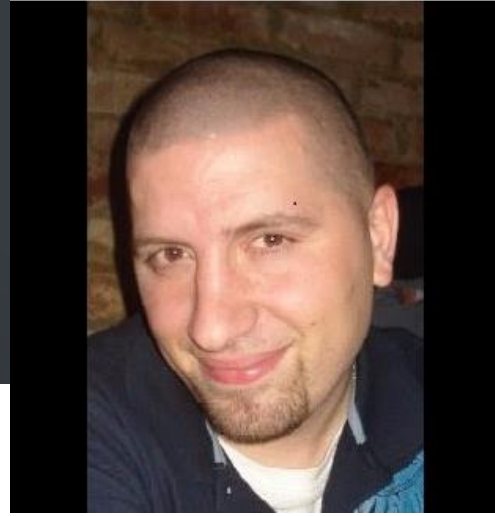
Presenters
Nick Scuola



RESILIENCE
COUNTRY



Presenters



Nick Scuola

Sr. Solutions Engineer – Strategic Accounts

About Me – Nick Scuola - nick@zerto.com

- Zerto Customer since 2014
- VMware vExpert [+PRO, +NSX, +Cloud]
- VMware VCIX6.5-DCV
- AWS Certified Solutions Architect
- #vCommunity Enabler
- U.S. Marine Corps Veteran
- Twitter - @NScuola
- LinkedIn - NicholasScuola



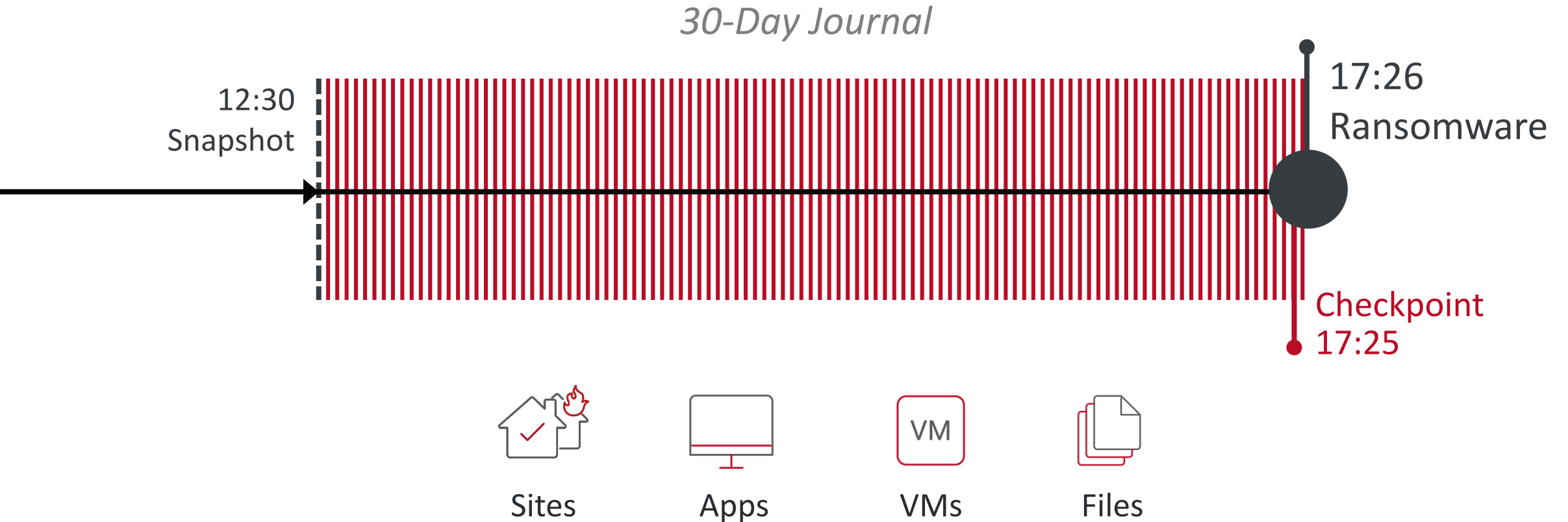
Agenda

- Common Terms
- Overview of Zerto Functions
- Transforming Your IT Operations
- Scenarios
- Q&A

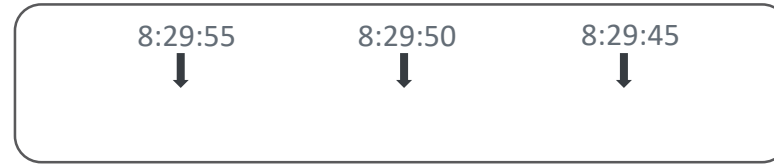
Common Terms

Journal-Based Recovery

Rewind and recover from any point in time



Continuous Data Protection



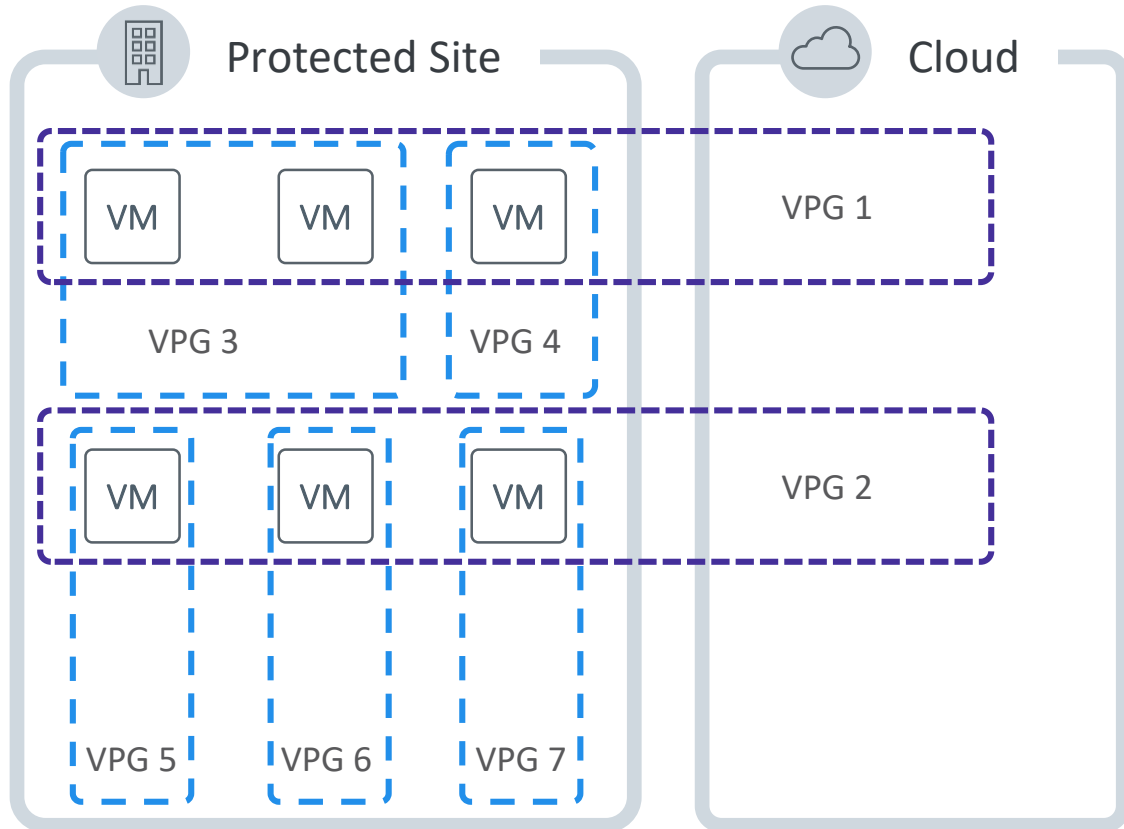
Per-VM Journal



Replica Disk

- 1** Writes from the VM are written into the journal (FIFO Queue), maintaining write-order-fidelity. Checkpoints are inserted in-flight.
- 2** As new writes continue to enter the journal, older writes are pushed out to the replica disk(s).

One-to-Many Rapid Recovery and Testing



- Protect to DR site
- Local and multi-cloud testing
- Test on isolated servers, identical to production
- Faster development
- Higher quality QA
- Faster time to market!

Common Terms

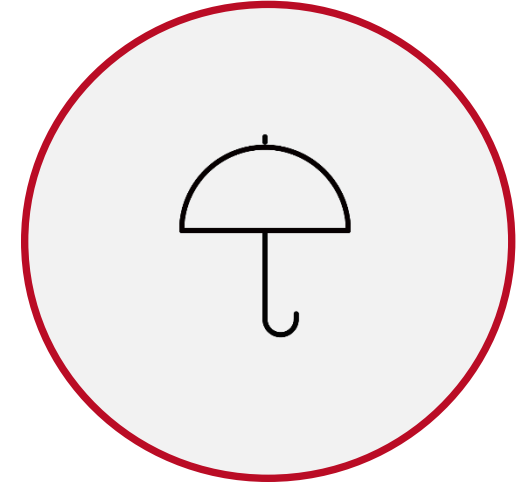
- Virtual Protection Group (VPG)
- Reverse Protection
- Commit Policies
 - None
 - Auto-Commit
 - Auto-Rollback

Overview of Zerto Functions

Features That You Should Have



R – Recover



T – Test

F – Failover



M – Move

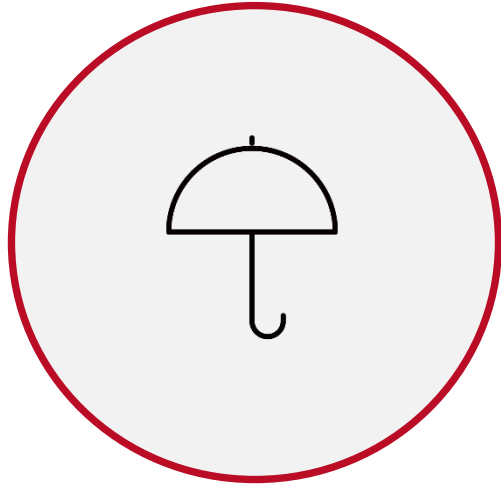




Recover (and/or Resume)

Sites, Applications, VMs, Files

- Granular RPOs based on journal technology
- Get your business back from Ransomware quickly and without additional costs
- Provide uptime to your customers
- Increase your end user productivity.

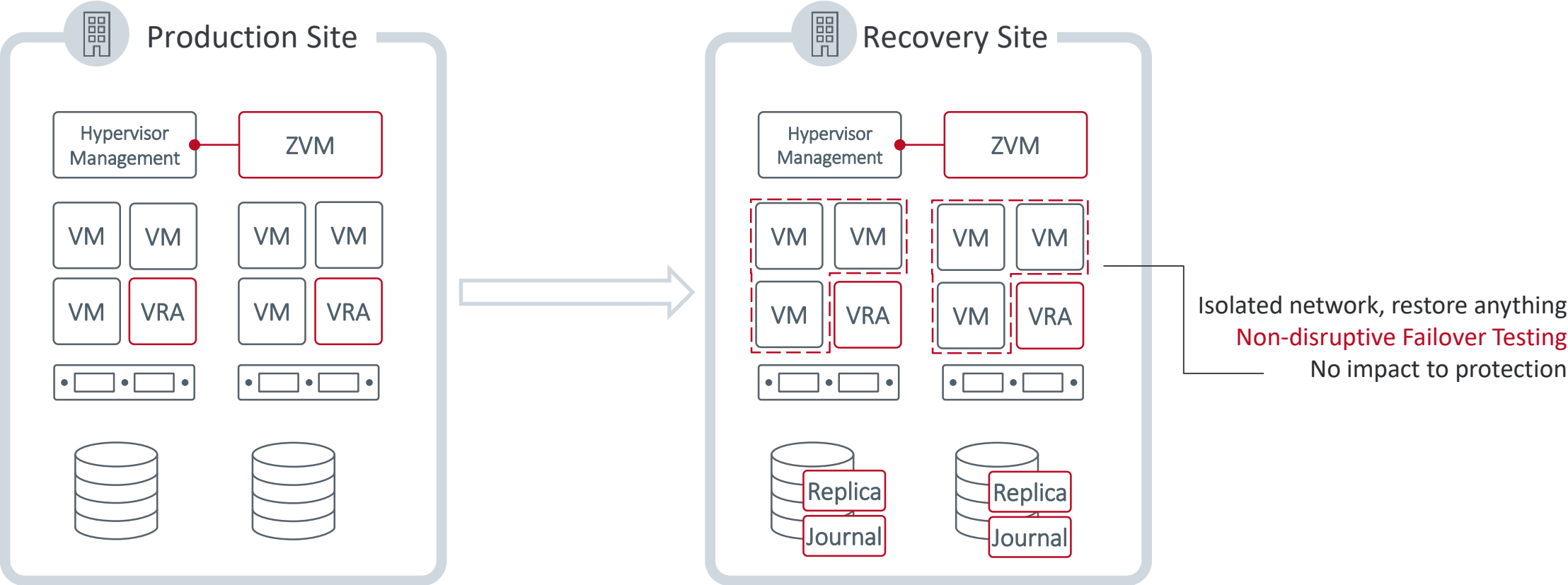


Test

Have confidence that your environment will work

- Automated testing to ensure recoverability with no impact to production
- Great for Dev/Test use cases – use production data without impacting production
- Replication continues while test is happening
- Simplify your Step 2 Processes, automate your runbooks
- Test workloads are automatically cleaned up when testing is completed

Orchestration & Automation – Failover Test



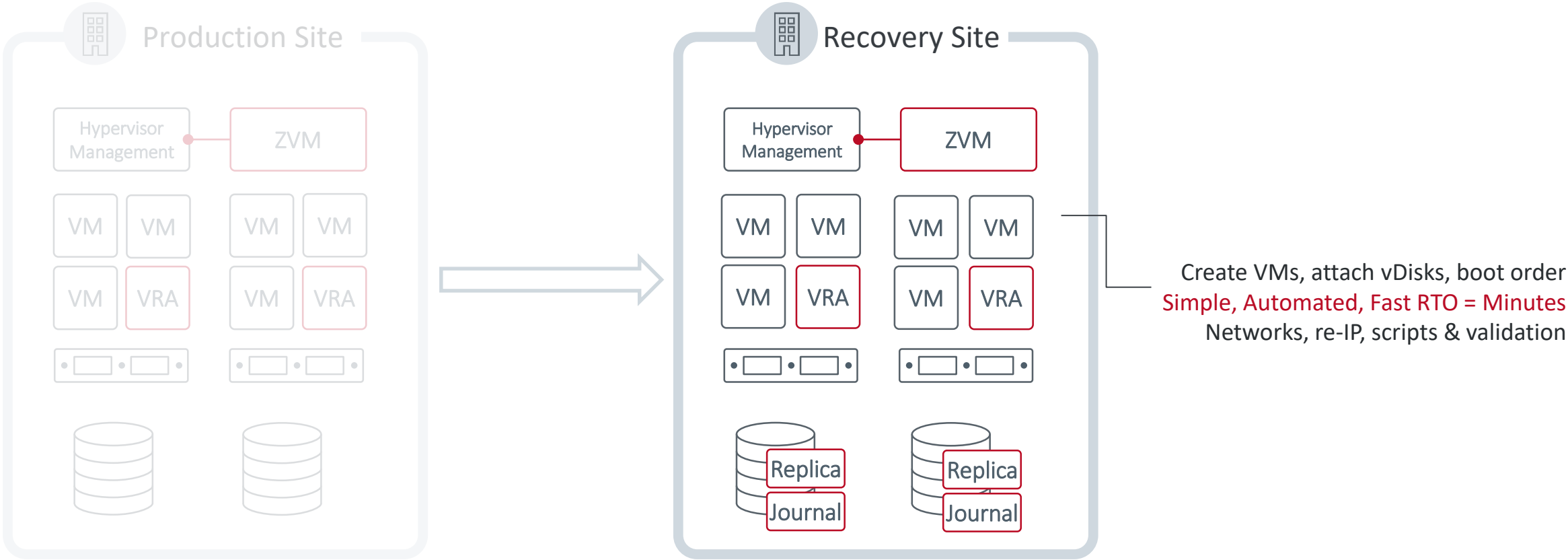


Failover

Resume Operations

- Point in time recoveries (DVR-Like Functions)
- Ability to rollback
- Can be used to recover entire workload, VMs or files
- No Reverse Protection by default (but can be used)

Orchestration & Automation – Failover



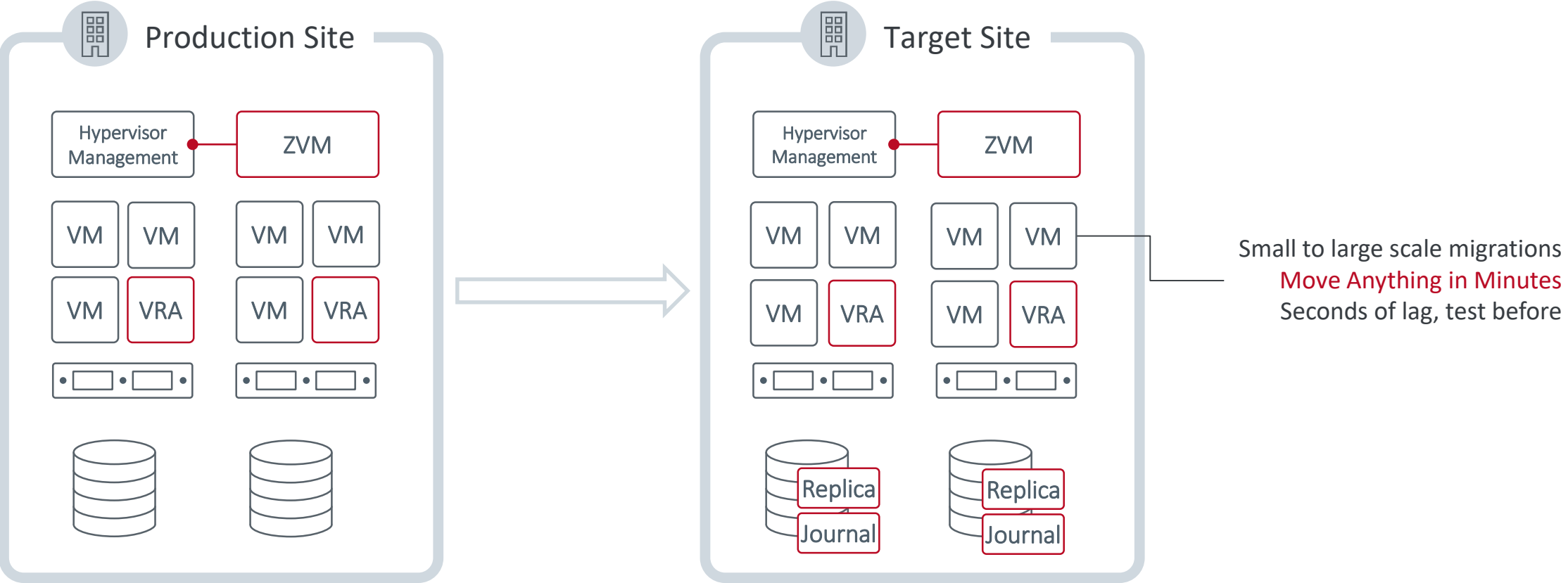


Move

Moves, Migrations & Consolidations – OH MY!

- Zero RPO – Yes, 0, Zilch, Nada
- Proactive Operation
- Change your storage platform
- Consolidate or move workloads between data centers
- Relocate workloads between clouds and hypervisors – take control of your data
- Reverse Protection enabled by default

Orchestration & Automation – Mobility/Move



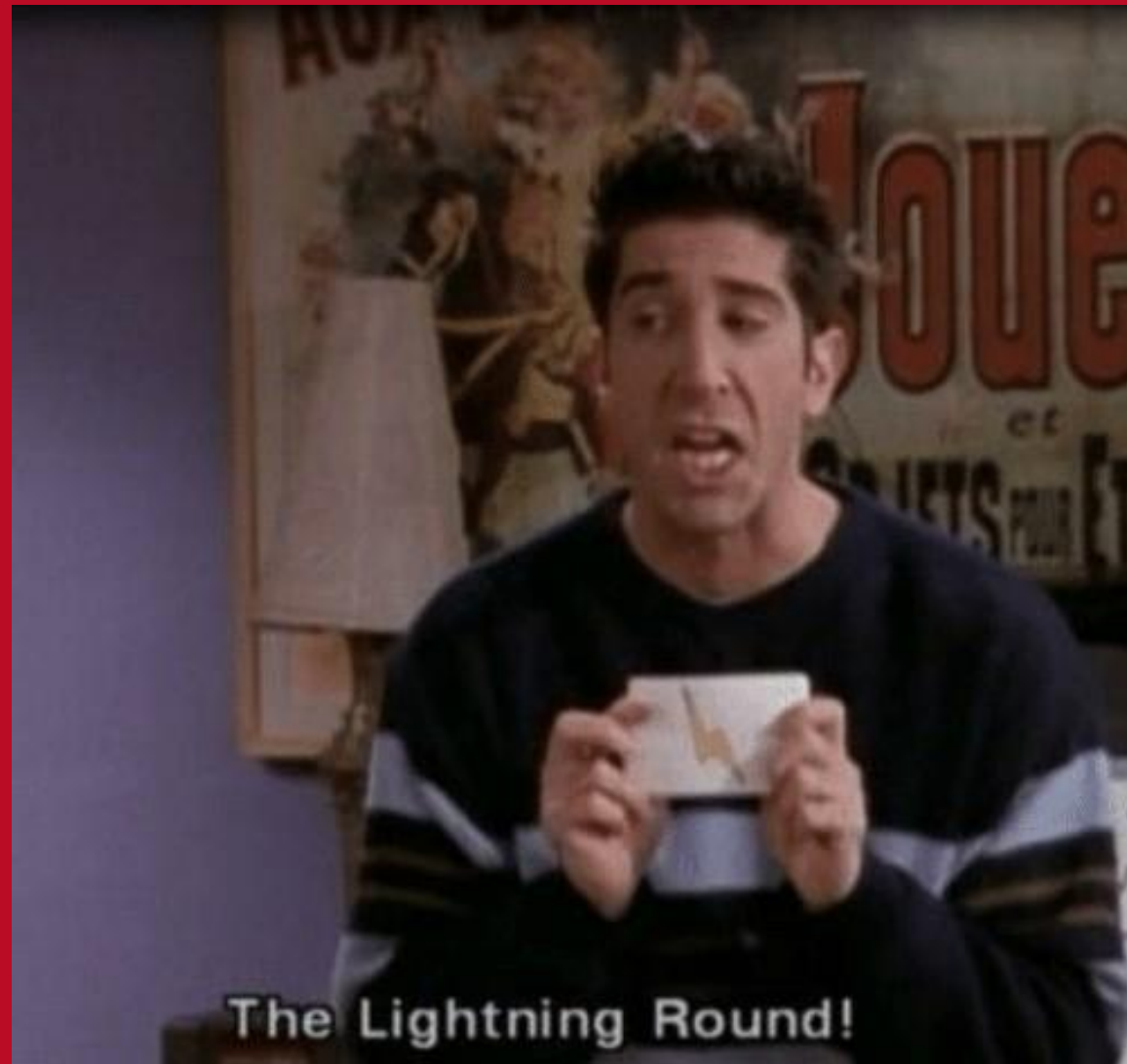
Small to large scale migrations
Move Anything in Minutes
Seconds of lag, test before

Transforming Your IT Operations

Transforming Your Operations

- The Journal + Checkpoints
 - No More Snapshots
 - Patch/Upgrade Testing
- Journal File Level Restore (PIT vs Periodic)
- One to Many
 - Additional Level Of Protection
 - Reduced Maintenance Windows
 - Exploring New Platforms

Scenarios



The Lightning Round!

Scenario 1

- You show up to work on Monday morning and there is a party at your desk. (Not the good kind like we're going to have later)
- Data corruption on a production SQL Server
- DBAs found that event took place at 4:28 PM, Saturday
- Need to restore the DB quickly
- What do you do?

Scenario 2

- You get a phone call at 10AM on a Tuesday.
- Your CIO just checked into the hospital. He just got his monthly cloud bill.
- CIO mandates that all IaaS applications are brought back to the data center
- What do you do?

Scenario 3

- You're walking back to your desk after a much-needed coffee break. It's 6PM. You have a major upgrade of a production app happening tonight.
- You casually throw it out to the app owner, "You tested this in the Dev environment, right?". Crickets
- What do you politely suggest?

Scenario 4

- You're sitting at your desk watching Avengers: Endgame for the 157th time
- CTO walks over and says that you have a network connection that is flapping and your external apps (and CUSTOMERS) are losing connections.
- Connectivity to your secondary location(s) is fine
- What do you do?

Scenario 5

- You currently have 16 datacenters around the country
- Due to rising real estate costs, you need to cut this number down to 8
- You need to maintain protection for 30 days **AT ALL TIMES**
- What do you do?

Practice: RTFM in a hands-on lab!

- *Managing Protection* lab covers the major operations, including encrypting files with ransomware and using Zerto 7.0 to recover
- Room 207 or on-demand at zerto.com/myzerto/labs

backup, our file share, and a Chrome shortcut that opens the ZVM GUIs for both production and DR sites.

Production Site

BC/DR Site

(Click to view enlarged in new tab)

As depicted in the diagram above, this lab has two sites that have already been configured, including deployment of the ZVMs and VRAs, but with no pairing between them and no VPGs replicating across.

When you're ready to get started, use the dropdown menu at the top of this lefthand pane to select the next chapter.

From the top "Chapter Selection" dropdown, click on the next chapter to continue to the next part of the lab.

More Information

You can get a sense of how this lab is set up by clicking on the Architecture icon at the top of this lefthand pane within LabEngine. If you have multiple monitors, you may also want to pop out either the lab guide or the lab itself to maximize space. Attached to

Zerto - Production Site

Zerto

Not secure | <https://192.168.111.20:9669/zvm#/main/dashboard>

Zerto Dashboard

No running tasks Site is OK Actions

Dashboard

VPGs 3 VMs 6 Protected 25GB Compression 53% Average RPO 9Sec

IOPS 0

VPG Health

Throughput (MB/sec) 91

WAN Traffic (MB/sec) 44

VPG Status

Site Topology

Production Site DR Site

0 Incoming VPGs 3 Outgoing VPGs

Active alerts View All

Running tasks View All

Events View All

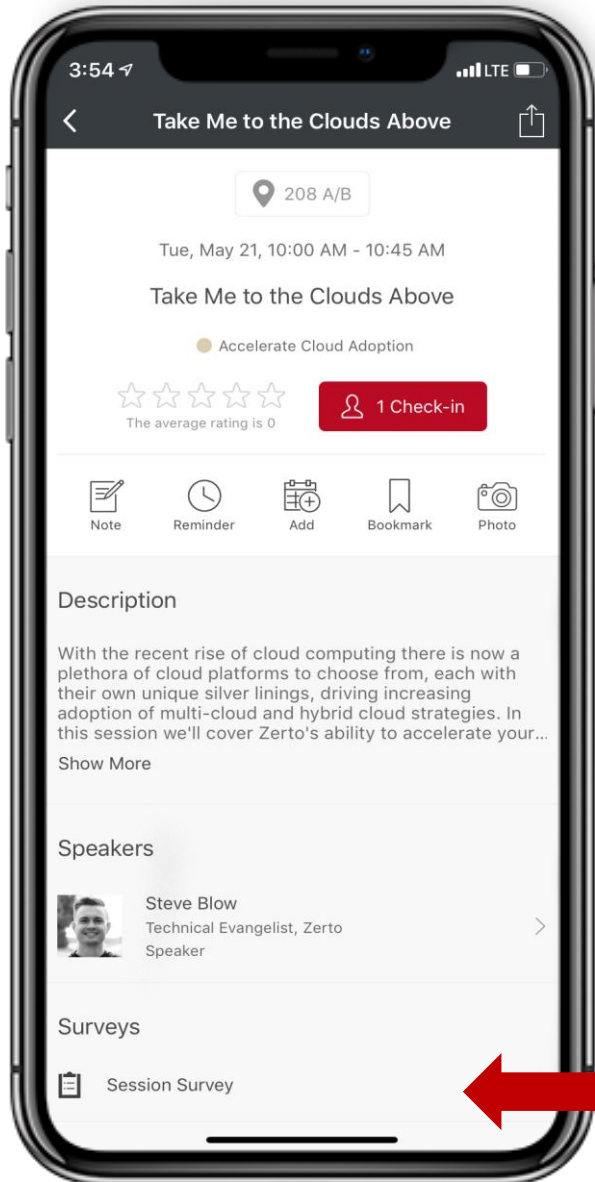
Name	Descript...	Date
Create VPG	Protection g...	46s ago
Create VPG	Protection g...	1m ago
Create VPG	Protection g...	2m ago
Pair sites	Pairing Zert...	3m ago

9:20 AM 4/15/2019

Q & A



RESILIENCE
COUNTRY



Tell us what you think

1. Open the ZertoCON app
2. Select the schedule
3. Find this session
4. Take the brief session survey