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a comprehensive guide to

Bluelock's Recovery Suite

The Key to Disaster Recovery

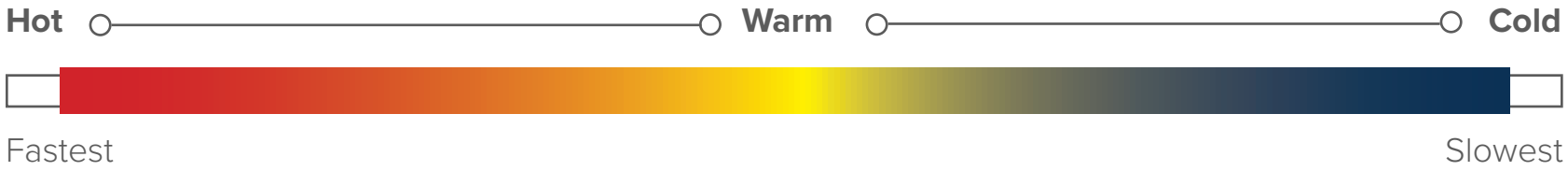
The key to a high-performing IT disaster recovery plan is having the right mix of solutions to achieve your organization's need for speedy recovery and maximum value. Bluelock has architected a suite of Disaster Recovery-as-a-Service solutions to help organizations achieve their ultimate goal of IT service availability and data protection.

In addition to aligning your recovery objectives to the proper technological capabilities, processes play a major role in an organization's ability to recover with confidence. That's why Bluelock works with clients to set the most accurate expectations for stakeholders, using a concept called True RTO™ and a plan that factors in people, process and technology dependencies called Recovery Waves™.

Inside This Guide:

Color Key

The following colors, or temperatures, refer to the **relative speed** of each recovery solution.



Bluelock Solutions

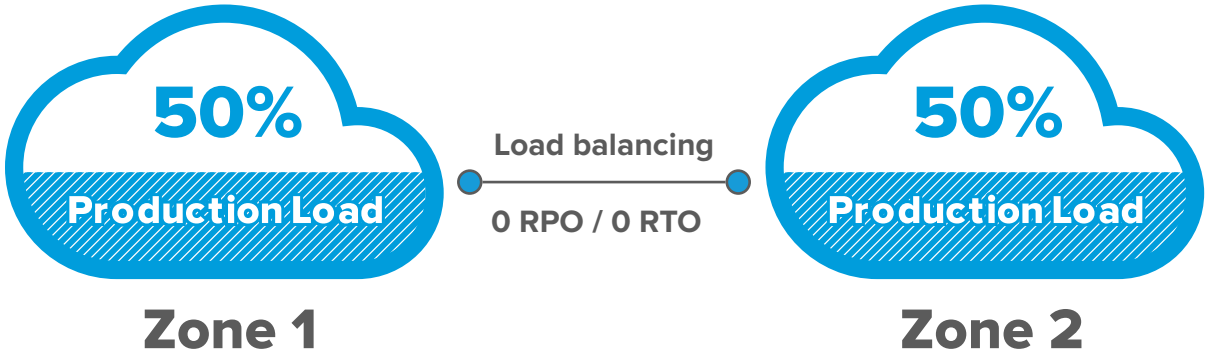
Solutions can be architected for physical or virtual machines in private or public cloud environments

Fastest

Slowest

IaaS (Active/Active)

Sample use case: A company relies on uptime as its primary success metric for customers who need access to service at any time, from anywhere. In order to deliver on this promise, the company leverages an active/active infrastructure which balances their traffic load between two identical sites. In the event of a service disruption to either side, each site could handle the full traffic if needed. This set-up also allows for maintenance to occur to either side when needed, so service to customers isn't disrupted and uptime is maintained.



Recovery Process

Traffic automatically swings to another zone immediately upon disruption

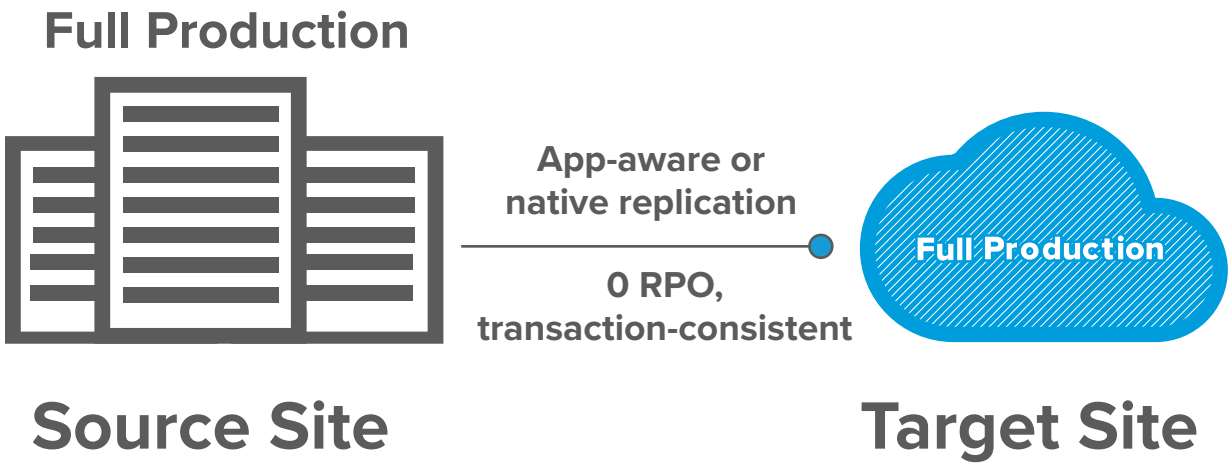
True RTO™: Zero

Fastest

Slowest

DRaaS Run™ (Active/Passive)

Sample use case: A company's Active Directory (AD) server is a top priority in the event of a declaration because without a connection to the AD server, their machines won't boot and their Quality Assurance teams won't have permission to validate recovery. A fully provisioned, always-running replica provides the foundation for immediate failover and fast recovery for the rest of the systems.



Recovery Process

Start application

True RTO™: Seconds to minutes

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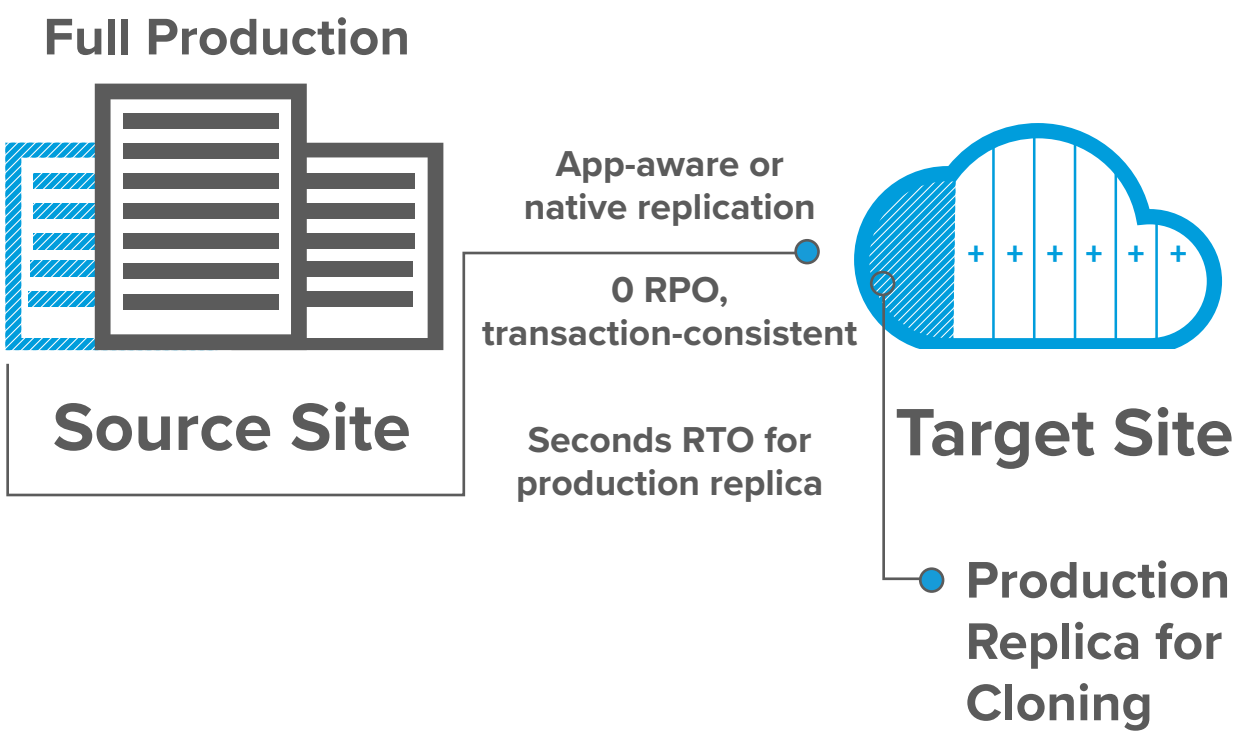
Fastest

Slowest

DRaaS Run™ (Active/Passive with Scale Out)

Sample use case: Without a consistent online presence, a web-based company cannot conduct business or gain revenue. While it may run using between 5 and 10 web and application servers in production, the company wants more economical protection for their site without giving up confidence. By maintaining a set of web and application servers at the recovery site and replicating their database using native database replication, their environment can begin taking load immediately upon primary site failure.



Recovery Process

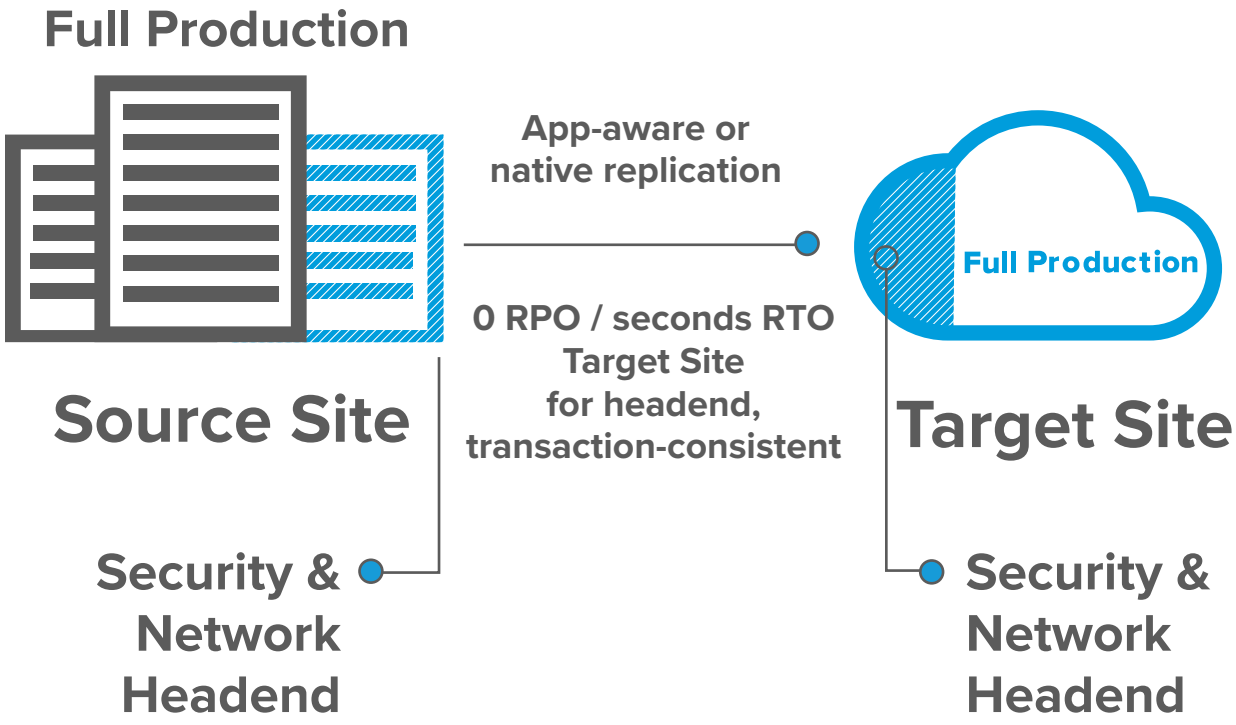
Clone machines
Start application
Boot clones
Start application on clones

True RTO™: Minutes, dependent on cloning process & machine size

Fastest Slowest

DRaaS Run™ (Always-On Recovery)

Sample use case: A company with large amounts of sensitive data needs its security and network headend applications at the recovery site to be constantly synchronized with the production site in an always running state. This ensures its dependent applications can return to service more quickly upon disruption. By leveraging Always-On Recovery, the business remains protected from threats at both sites and removes the need to wait on updates and boot time for the most critical portion of its recovery environment.



Recovery Process

Transfer traffic to headend

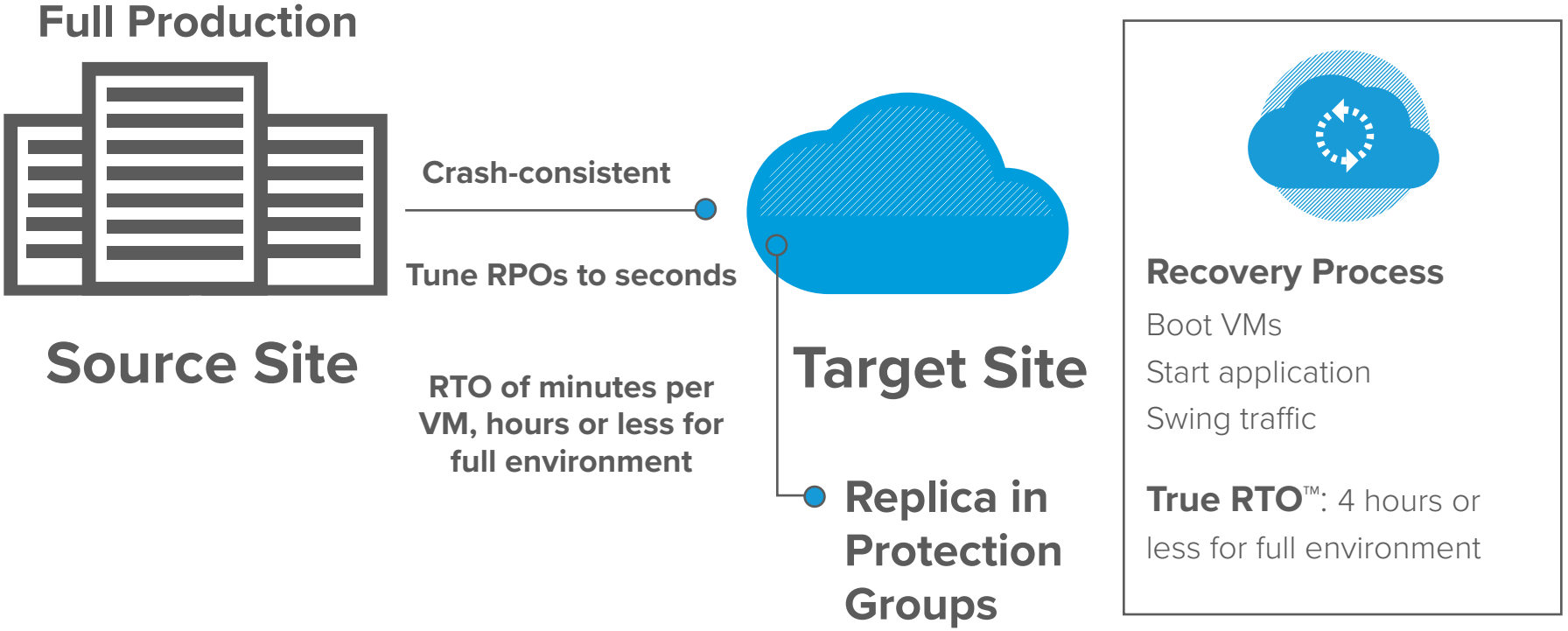
True RTO™: Seconds for headend, recovery time for full production is dependent on recovery tier selected

Fastest

Slowest

DRaaS Ready™ (Real-Time Replication)

Sample use case: A company must have a point-of-sale application running at all of their retail locations so that inventory, sales and customer information is up to date. By protecting this customer information in the cloud with real-time replication, applications can be restored in the cloud within minutes and full service is available within hours so that retail locations can continue to serve customers without losing business.

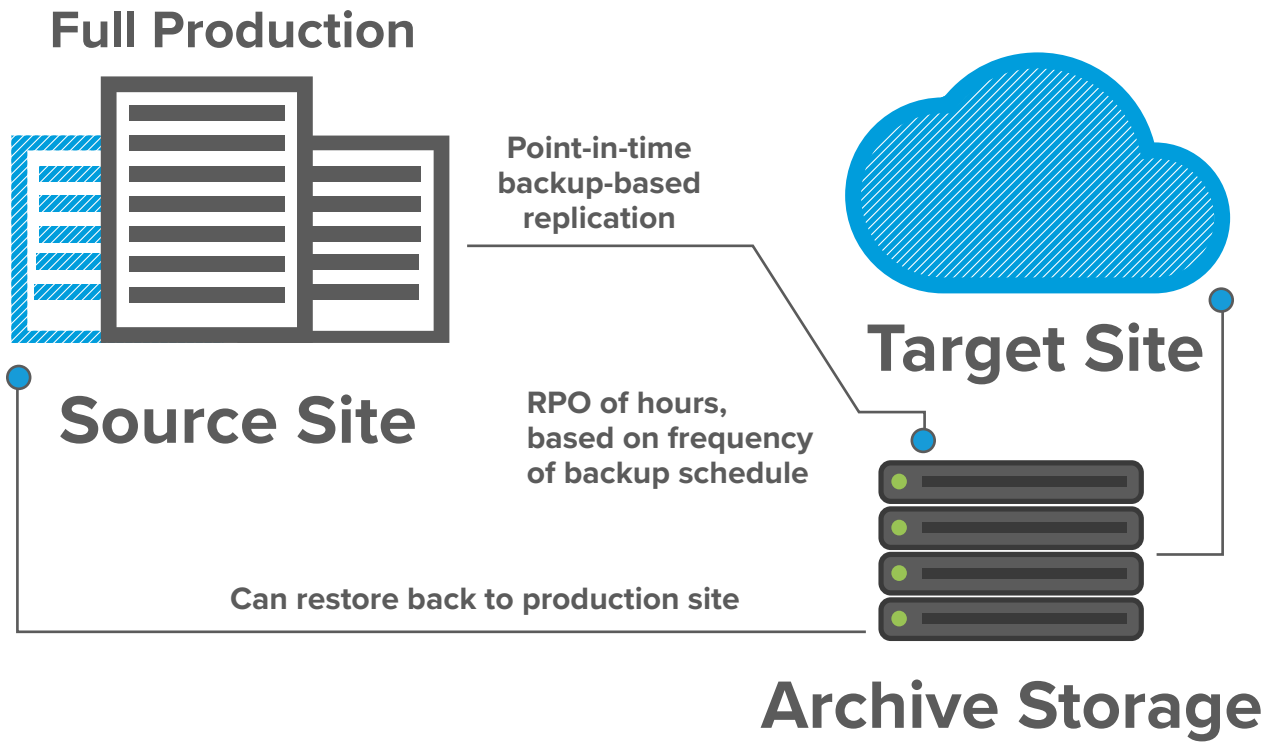


Fastest

Slowest

DRaaS Restore™ (Backup-Based Replication)

Sample use case: A company has a collection of non-urgent, business-supporting applications and files that don't warrant immediate recovery, but still need to be protected nonetheless. As a low-cost alternative to more rapid recovery, the company can secure point-in-time backups in the cloud for faster access to data than if tapes had to be recalled from a physical location. Plus, the company can choose to restore their data within the cloud or back to their original site at the time of declaration.



Recovery Process

Restore backup to production storage
Boot VMs
Start application

True RTO™: 24 hours or less for full environment

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Bluelock Solution Partners

Bluelock leverages the following best-of-breed technologies to deliver our solutions. We also offer a unique process that allows our experts to tailor and deliver our solutions.

Powered by Zerto

VEEAM

Double-Take® by Vision Solutions®

COMMVAULT®

What is True RTO™?

On a basic level, a recovery time objective (RTO) is **the objective for the time it takes to recover**. Bluelock is dedicated to the complete recovery of IT systems and what that means not just to an IT department, but to the rest of an organization and its constituents. For this reason, we refer to recovery times in terms of True RTO™.

Two Interpretations of RTO

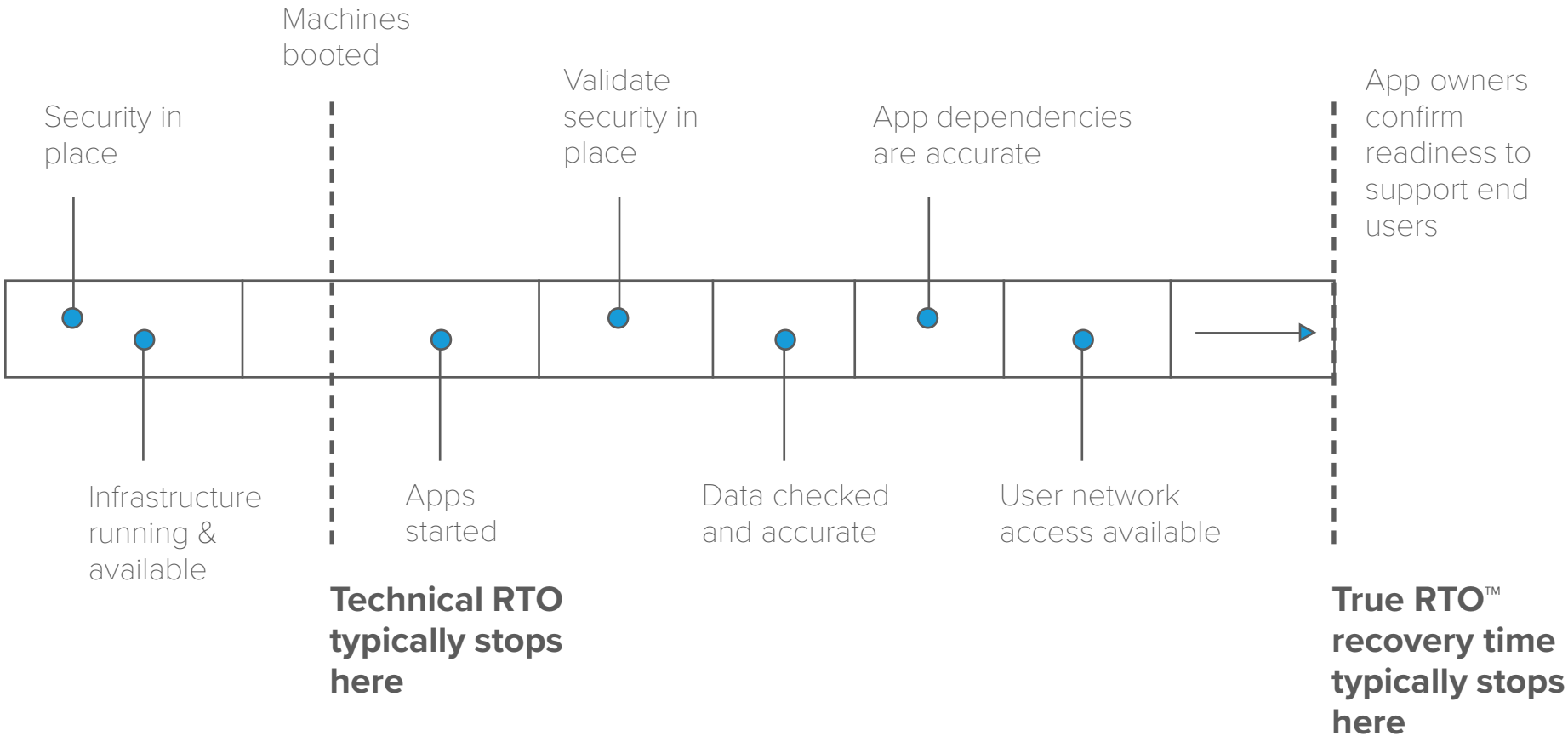
Technical RTO

In this case, RTO means the time it takes for infrastructure to be running and available for recovery.

True RTO™

In this case, RTO means the time it takes for an application or system to become available and begin serving end users.

Two Interpretations of RTO (cont.)



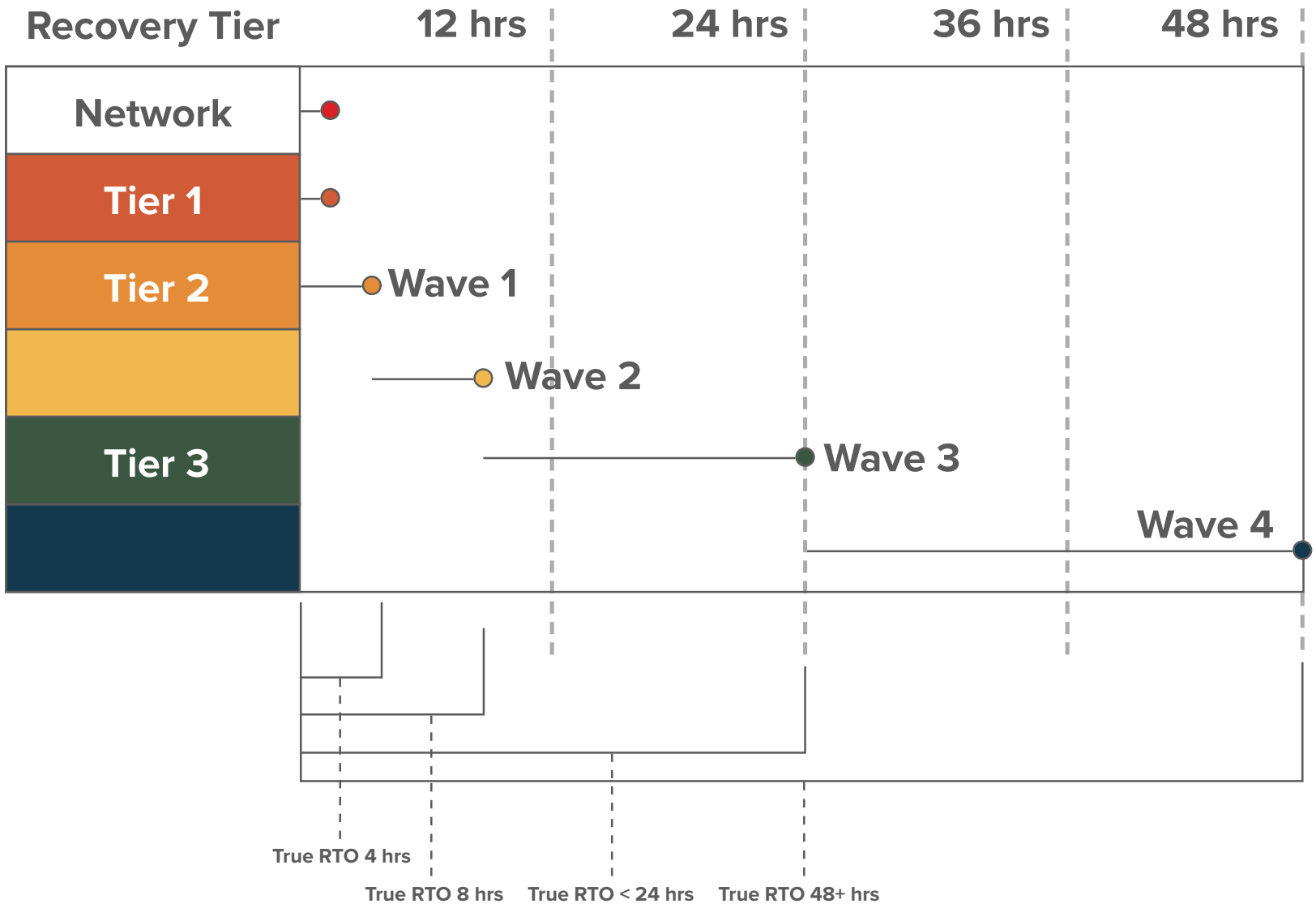
Recovery Waves™

Recovery Waves™ emphasize people and process over technology. The technical part is faster than the people part, so Recovery Waves™ are a way to tier applications within your recovery tiers, taking into consideration dependencies and order of operations.

Recovery Waves™ offer the following to the recovery process:

- Demonstrate which applications need to wait on others before returning to service.
- Set expectations about when applications will come back.
- Provide more detailed information on what will come back, and in what order - even within the same tier.

Recovery Waves™ Sample Diagram



For more information on DRaaS Solutions, visit

bluelock.com/solutions