Using Virtual Infrastructure as a Recovery Platform for Physical Production Servers

John Stetic

Director of Product Management and Services
PlateSpin Ltd.
john.stetic@platespin.com
www.platespin.com

VMWORLD 2006

About PlateSpin

- Global independent software vendor, headquartered in Toronto, Canada
  - Customers and resellers in Europe, Asia Pacific, North and South America
- 2000+ satisfied customers, two lead products:
  - PlateSpin PowerConvert
  - PlateSpin PowerRecon
- Experts in solutions for virtualized data centers
- VMware Technology Alliance Partner
- Microsoft Certified Partner

THE STEVIES
THE INTERNATIONAL BUSINESS AWARDS
2005 Winner

THE STEVIES
THE INTERNATIONAL BUSINESS AWARDS
2006 Winner

vmware technology alliance PARTNER

Branham
BRANHAM GROUP INC

Microsoft CERTIFIED Partner
ISV/Software Solutions

PROFIT HOT 50
2006

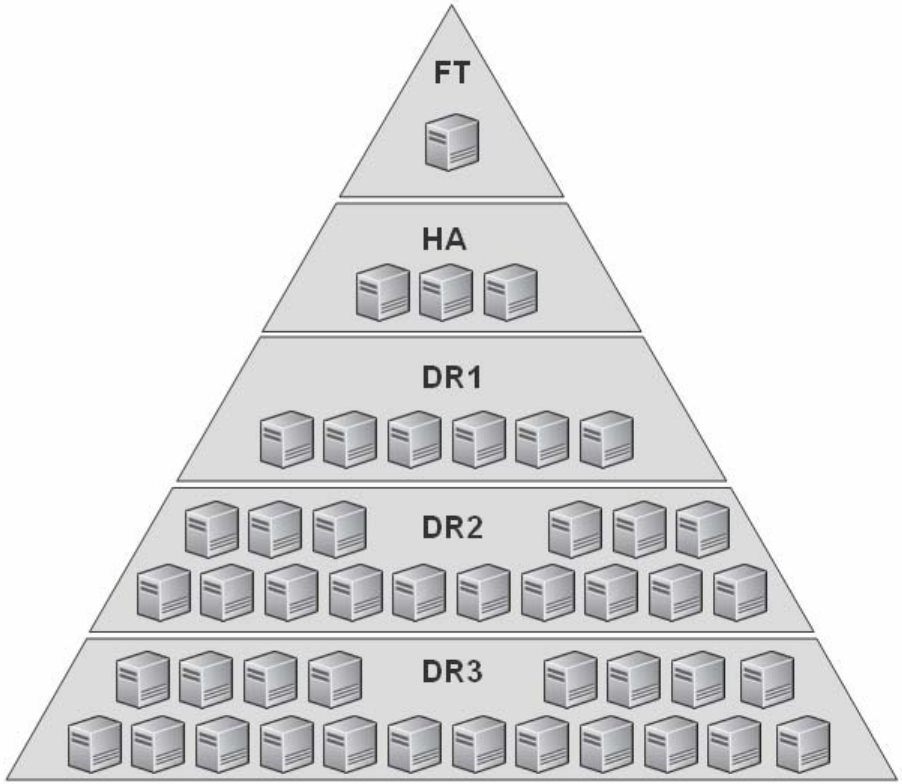
PLATESPIN

Overview

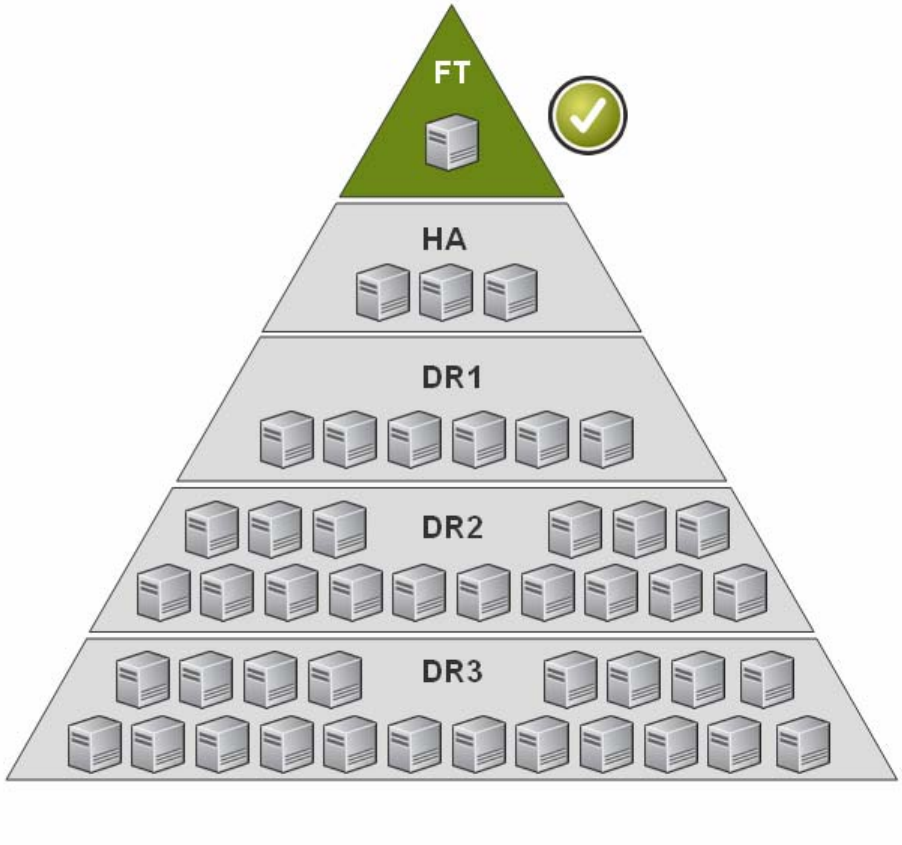
- The Availability Challenge
- The Options
- Virtualization as a Breakthrough Technology
- How it Works

Allocating Budget

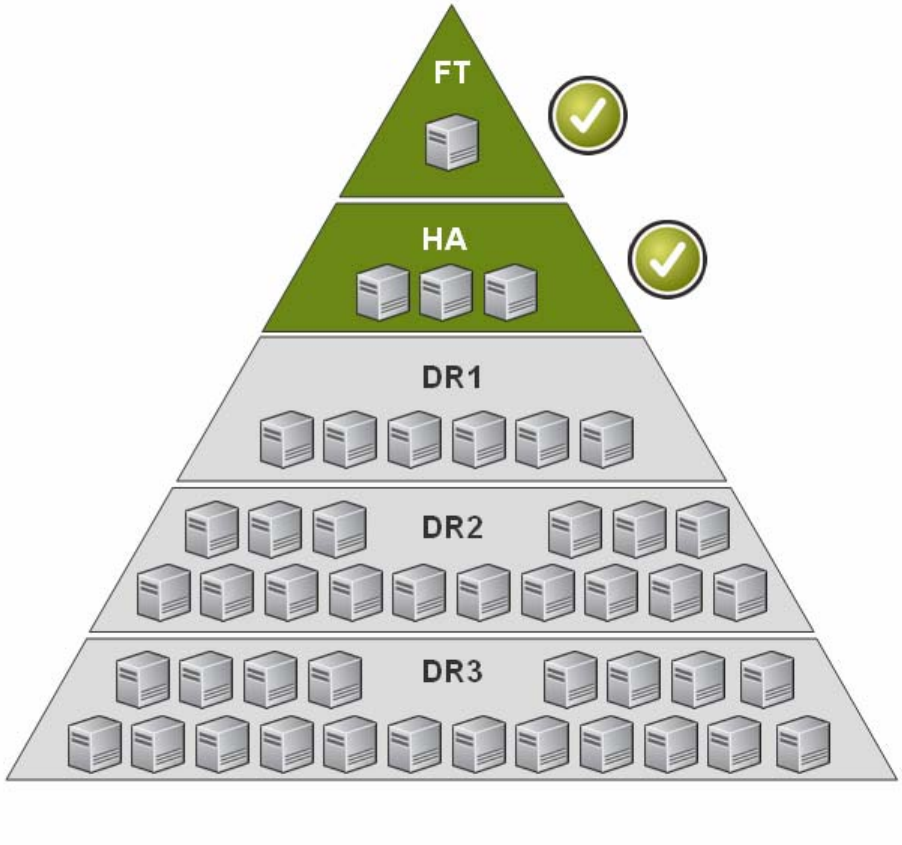
BUDGET



Allocating Budget

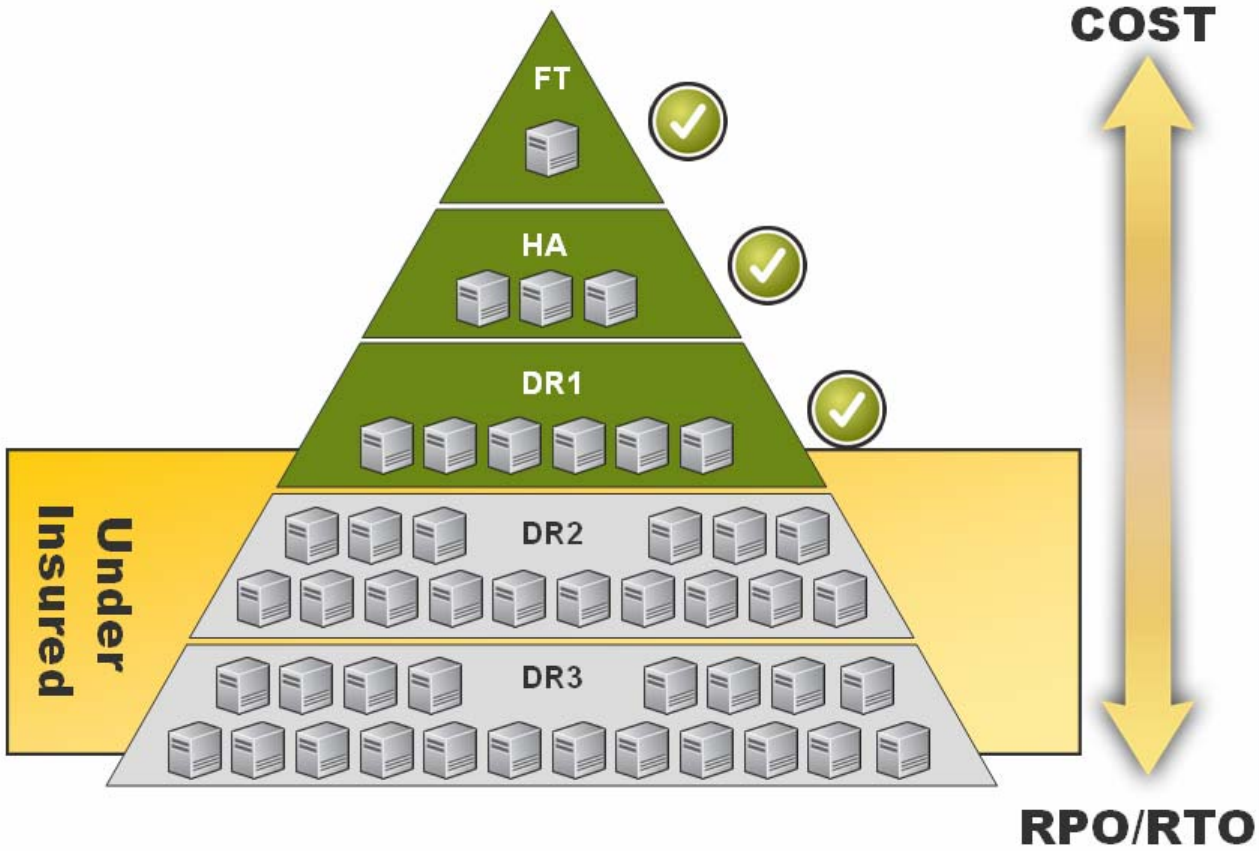


Allocating Budget



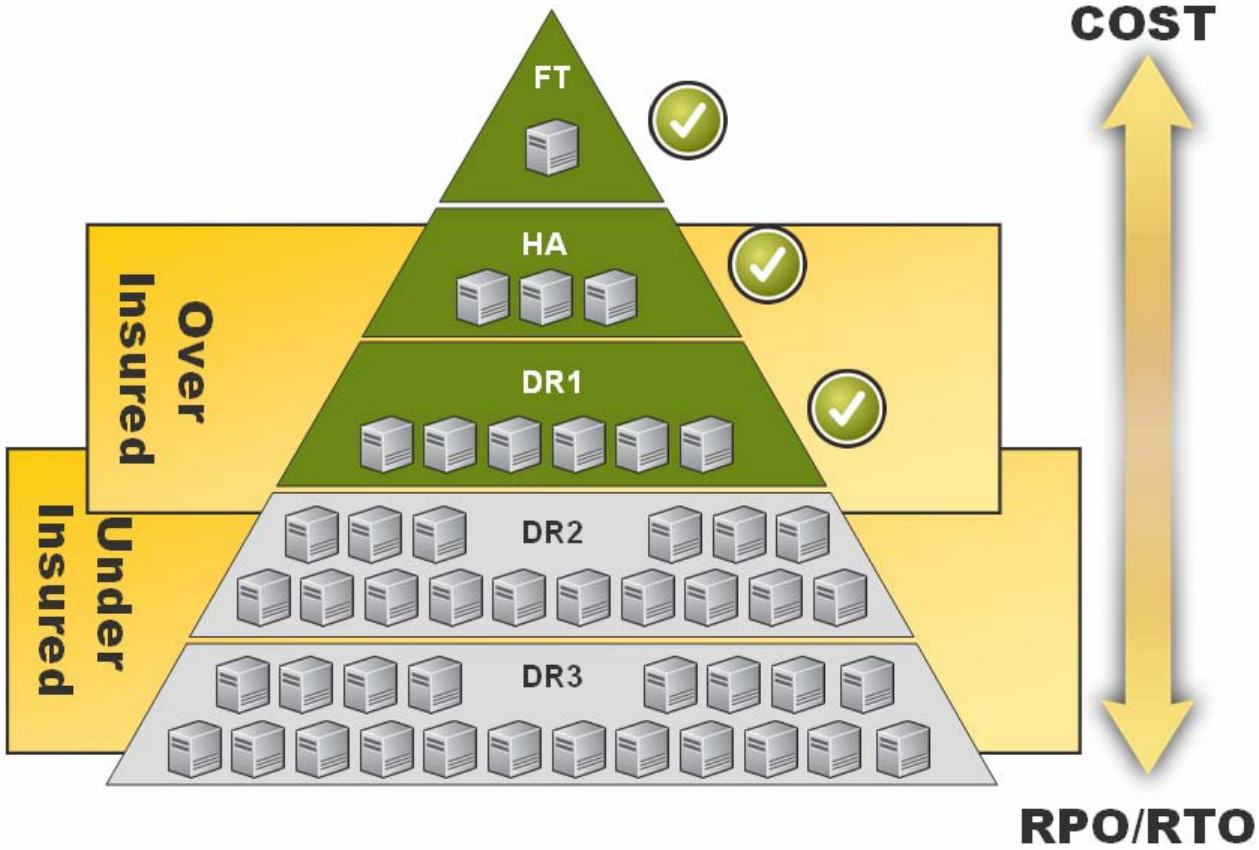
Allocating Budget

BUDGET



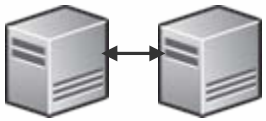
Allocating Budget

BUDGET



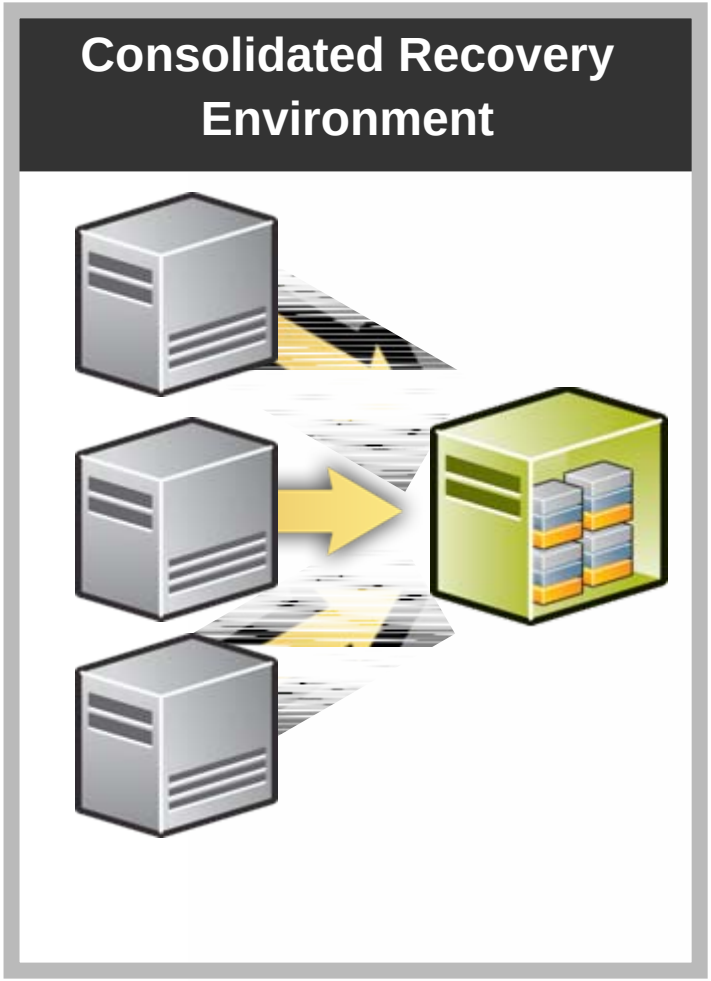
PLATESPIN

Solution Options

Solution	Notes	RPO/RTO/Cost
 Server Clustering	Duplicate Hardware Complicated Setup	0 / 0 / $$$$
P2V Recovery	Consolidated recovery Power on recovery Touch less management	hours / min / $$
Disk Imaging	Limited Restore Flexibility Slow Staged Restore	24h / hours / $$$
Tape / Manual Rebuild	Difficult to Administer Slow, Prone to Errors	24h+ / days / $

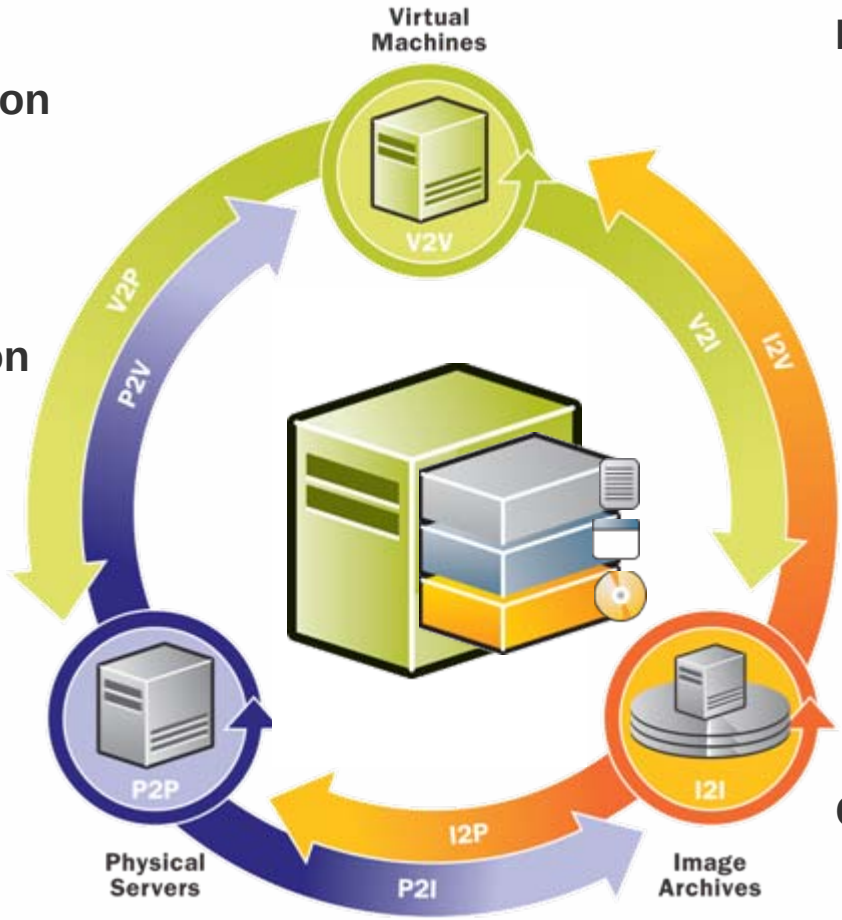
Benefits of Backing up to a VM

- Store backups in a run-able format
  - Reduce RTO
  - Uniquely speeds DR testing times
- Highly portable and encapsulated backups
  - Simplify off site transport
  - Increase restore flexibility
- Maximize restore resources
  - Manage recovery service levels
  - Over commit resources for cost savings



PlateSpin's OS Portability Technology

- Server consolidation
- Recovery
- Hardware migration
- Test lab creation
- Provisioning



Decouple workload from host infrastructure

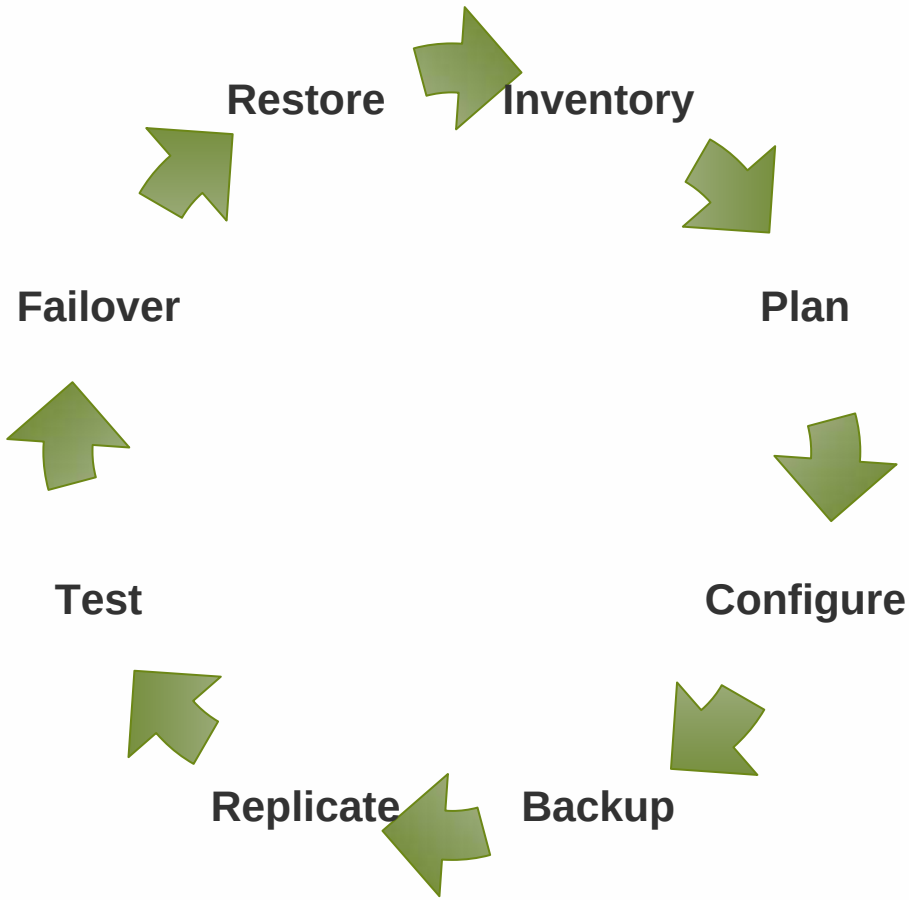
Deploy or recover workload from archives and backups

Peer-to-Peer, live and incremental workload movement

Reconfigure workloads dynamically

Connect, drag-and-drop, walk away

The Availability Life Cycle



Bridging the Physical to Virtual Divide

- A one time manual conversion is not enough
  - Resource assignment
  - Automation and Auditing
  - Repeatability
  - Fail back

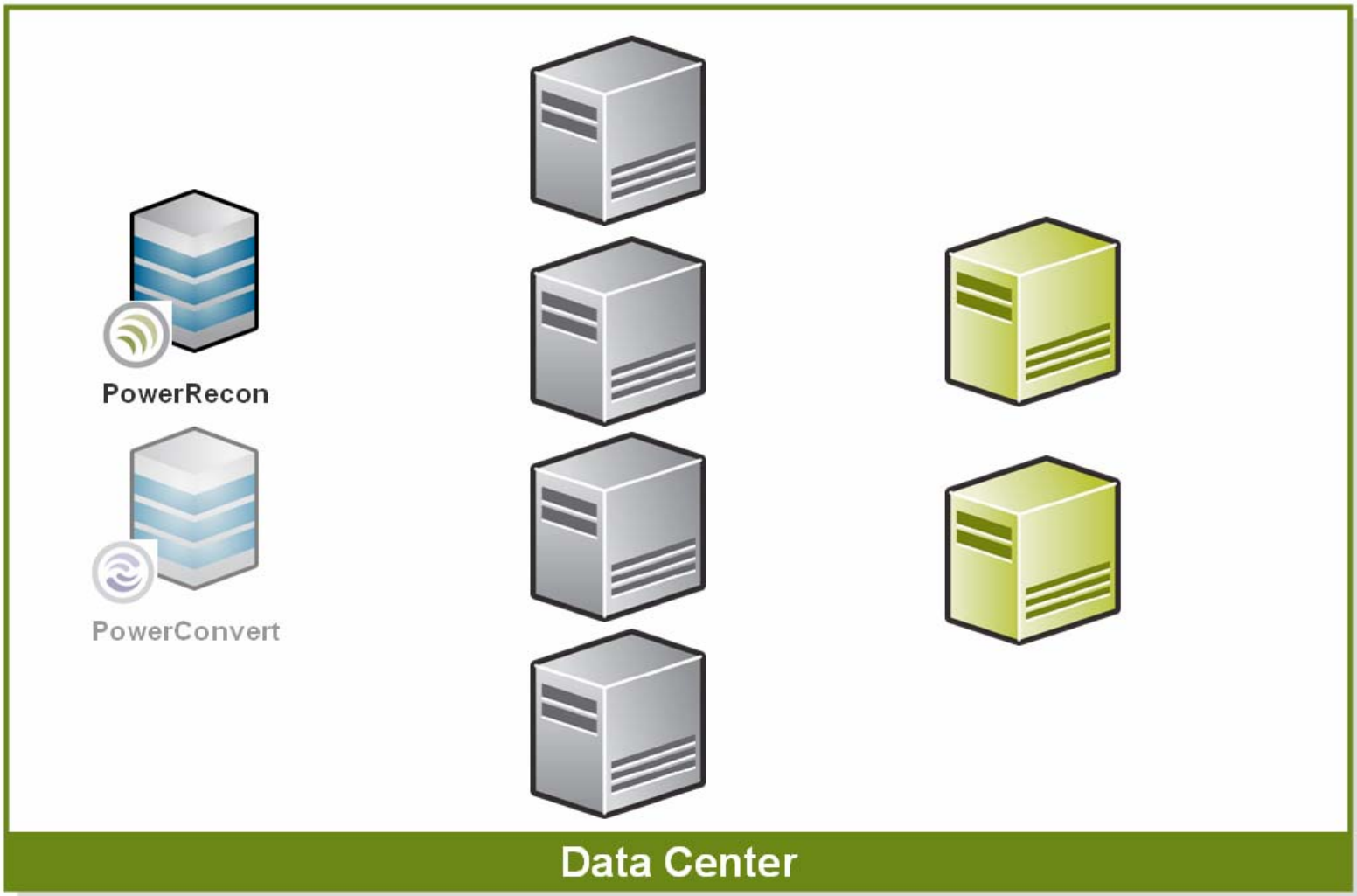
- PlateSpin's OS Portability Technology enables:
  - Automatically deal with the reconfiguration of the low level OS
  - Configure OS settings
  - Alter and right size resources and networking for a viable warm standby
  - Restore back to physical servers

PowerSolution - Recovery

Inventory

Plan

Configure

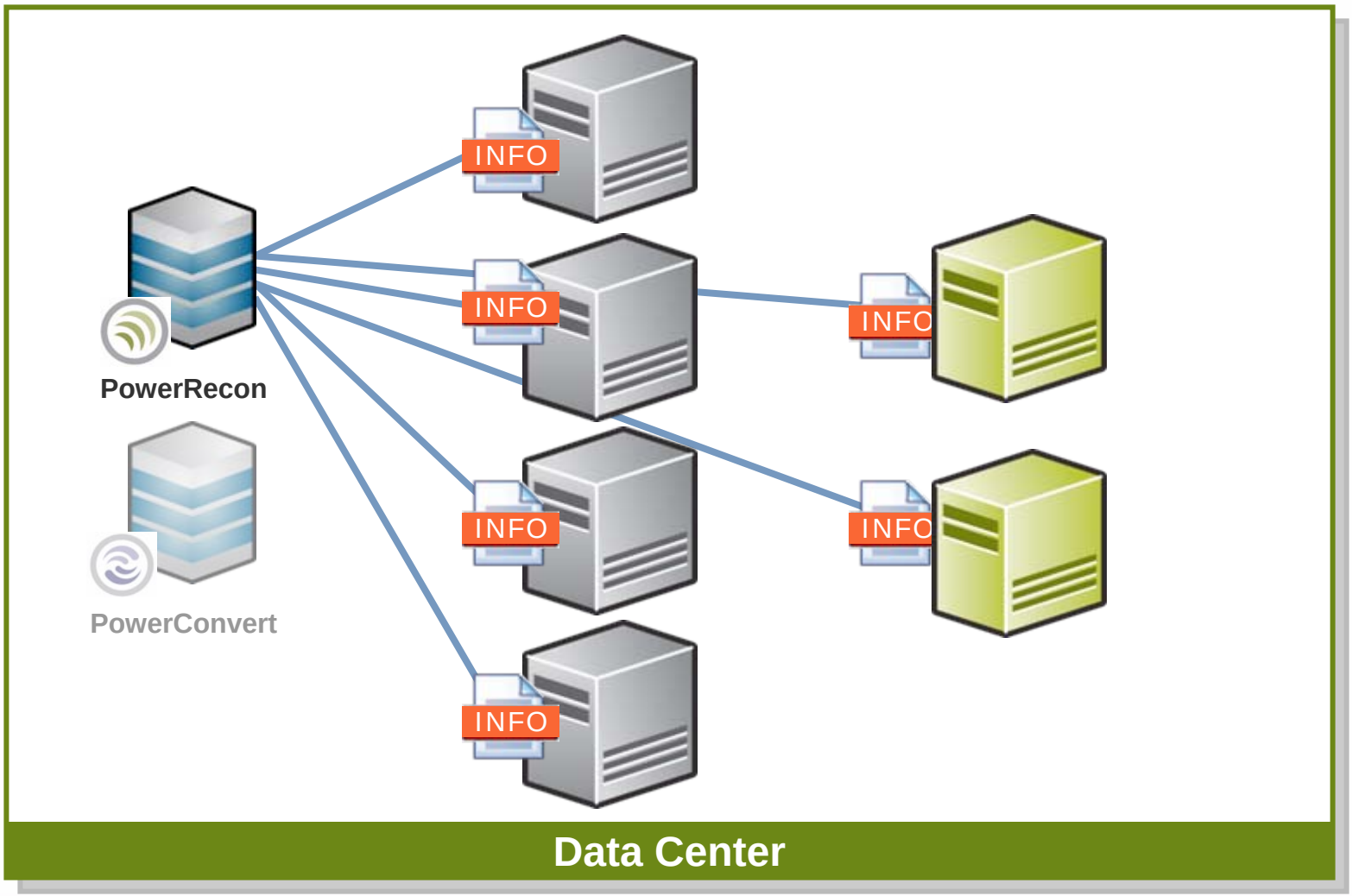


PowerSolution - Recovery

Inventory

Plan

Configure

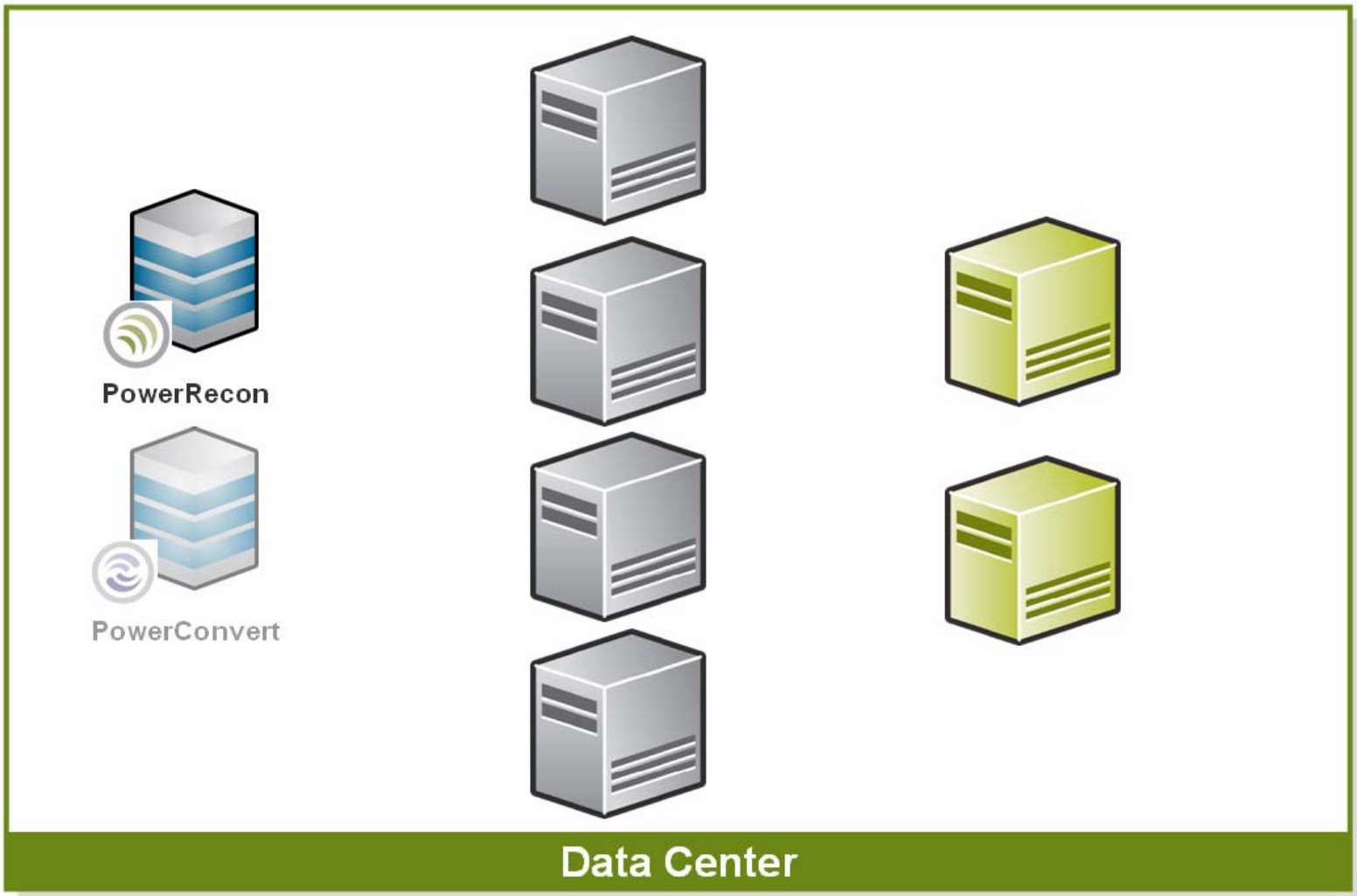


PowerSolution - Recovery

Inventory

Plan

Configure

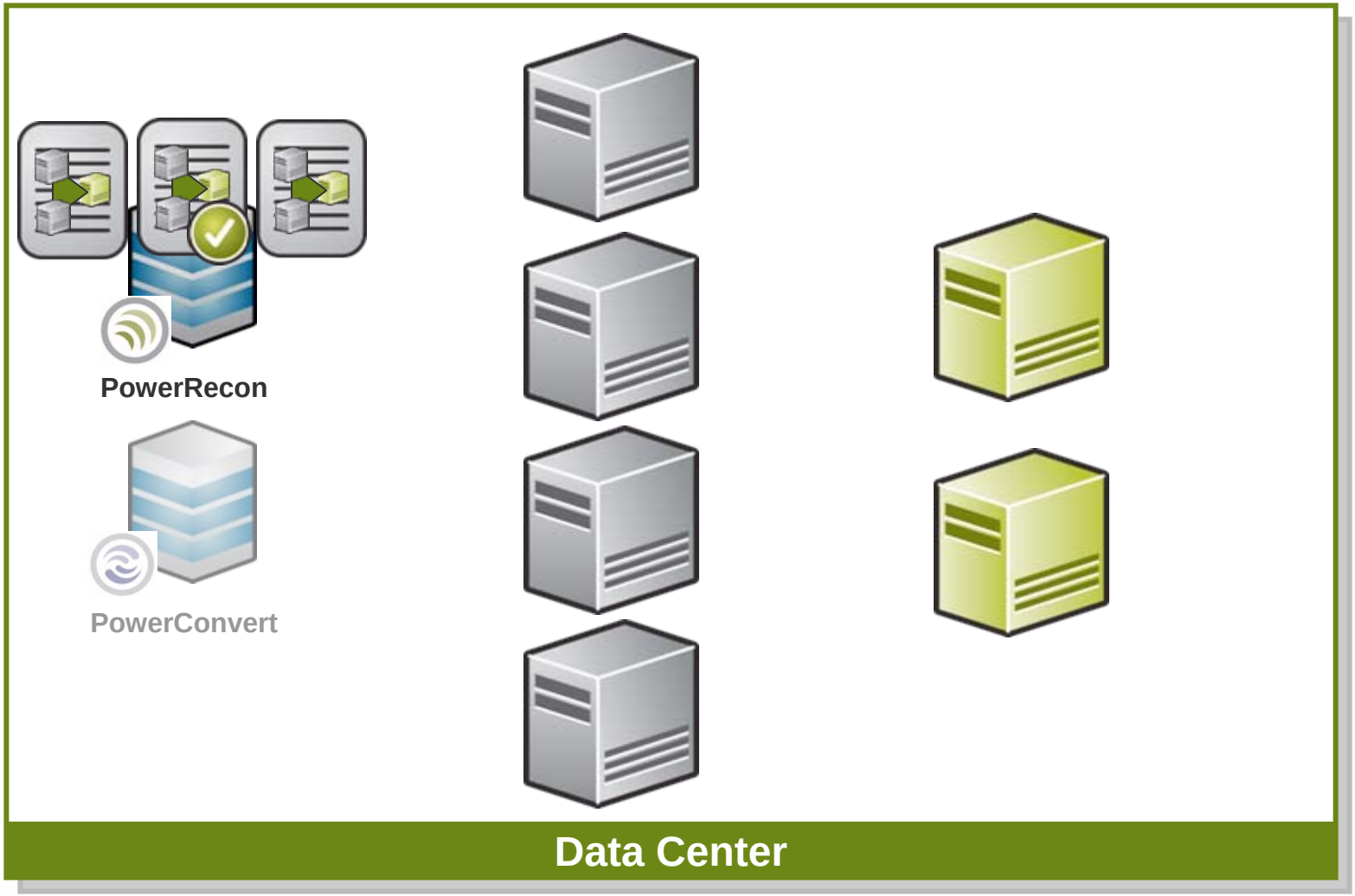


PowerSolution - Recovery

Inventory

Plan

Configure

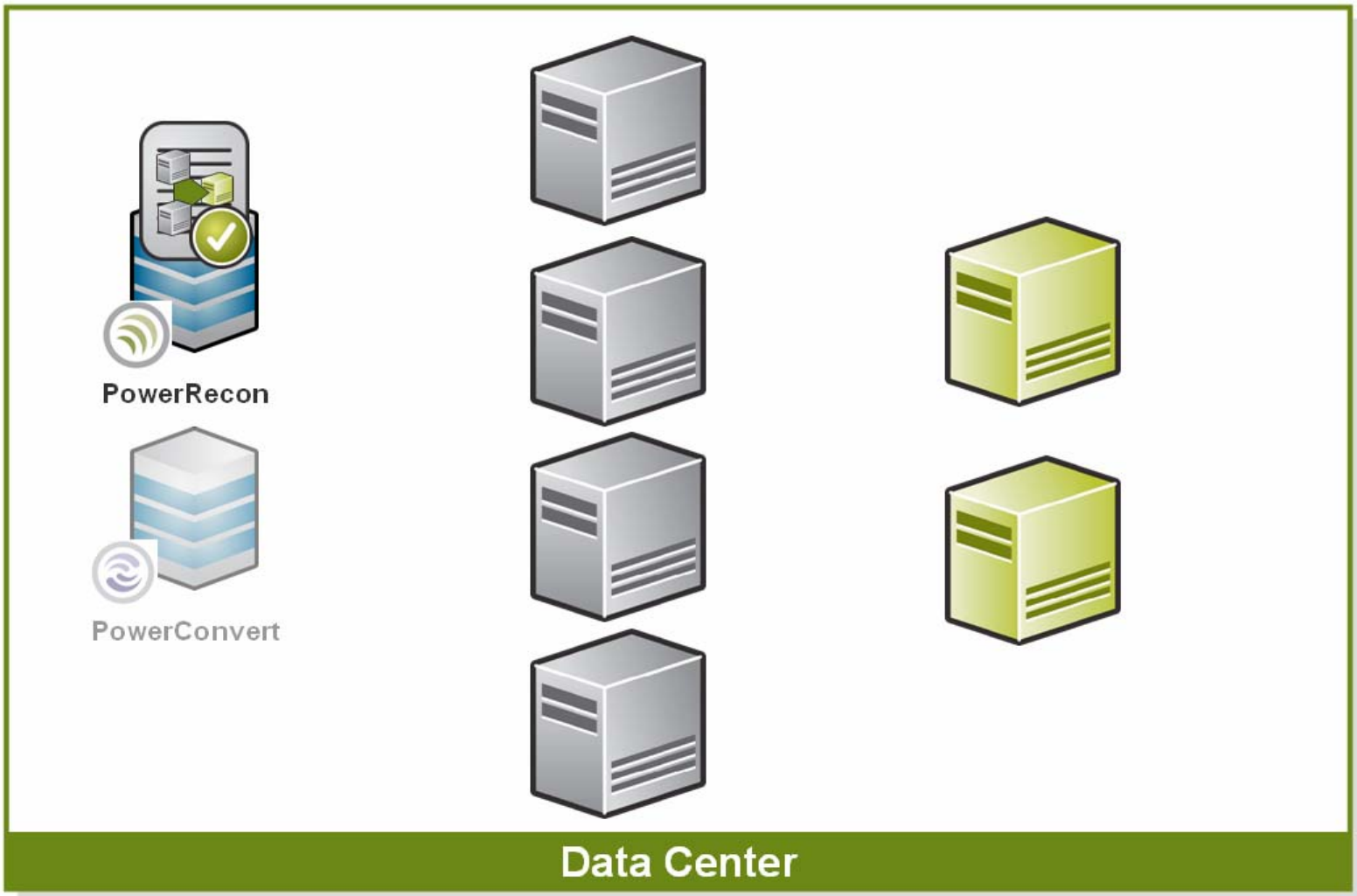


PowerSolution - Recovery

Inventory

Plan

Configure

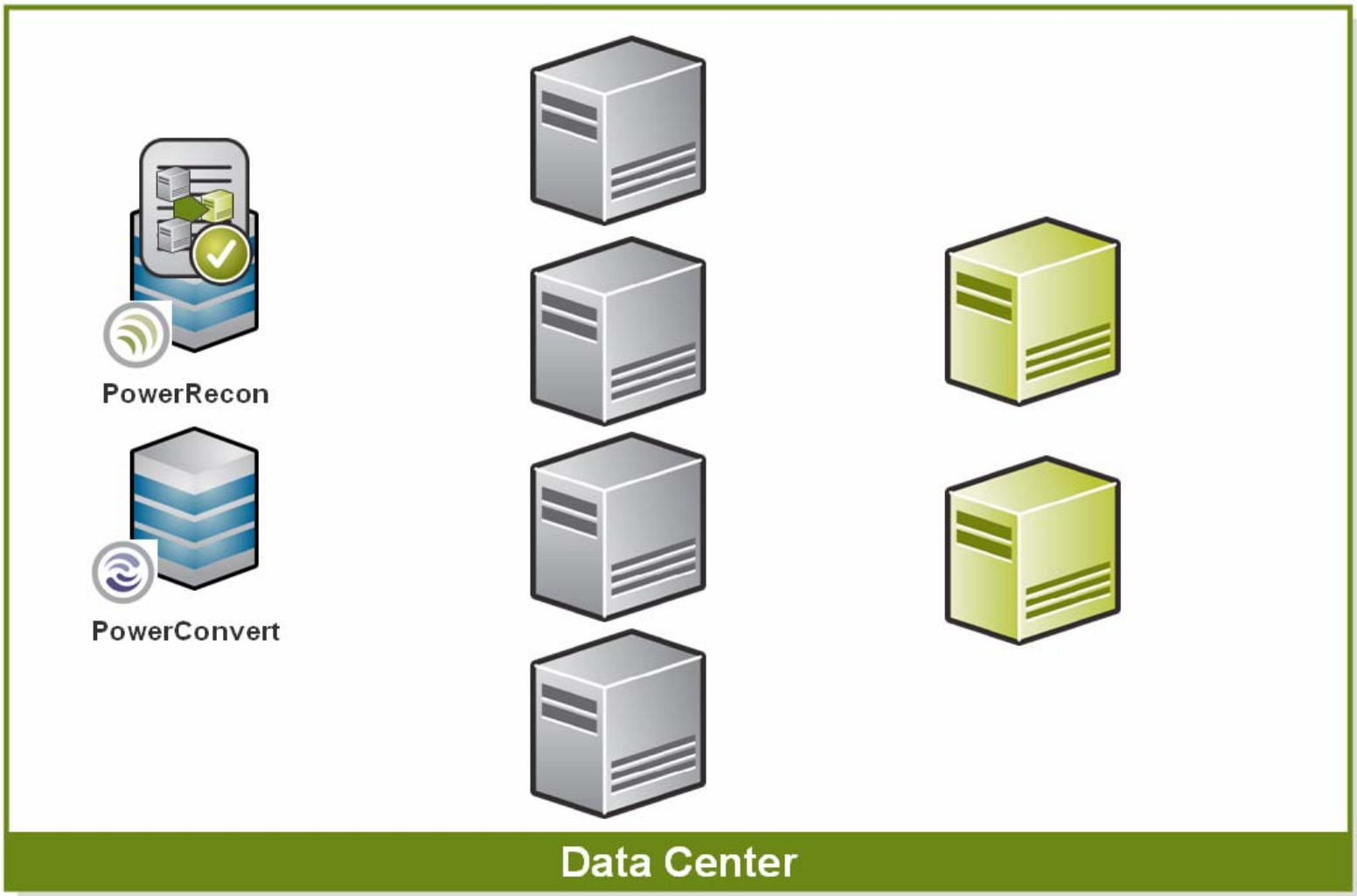


PowerSolution - Recovery

Inventory

Plan

Configure

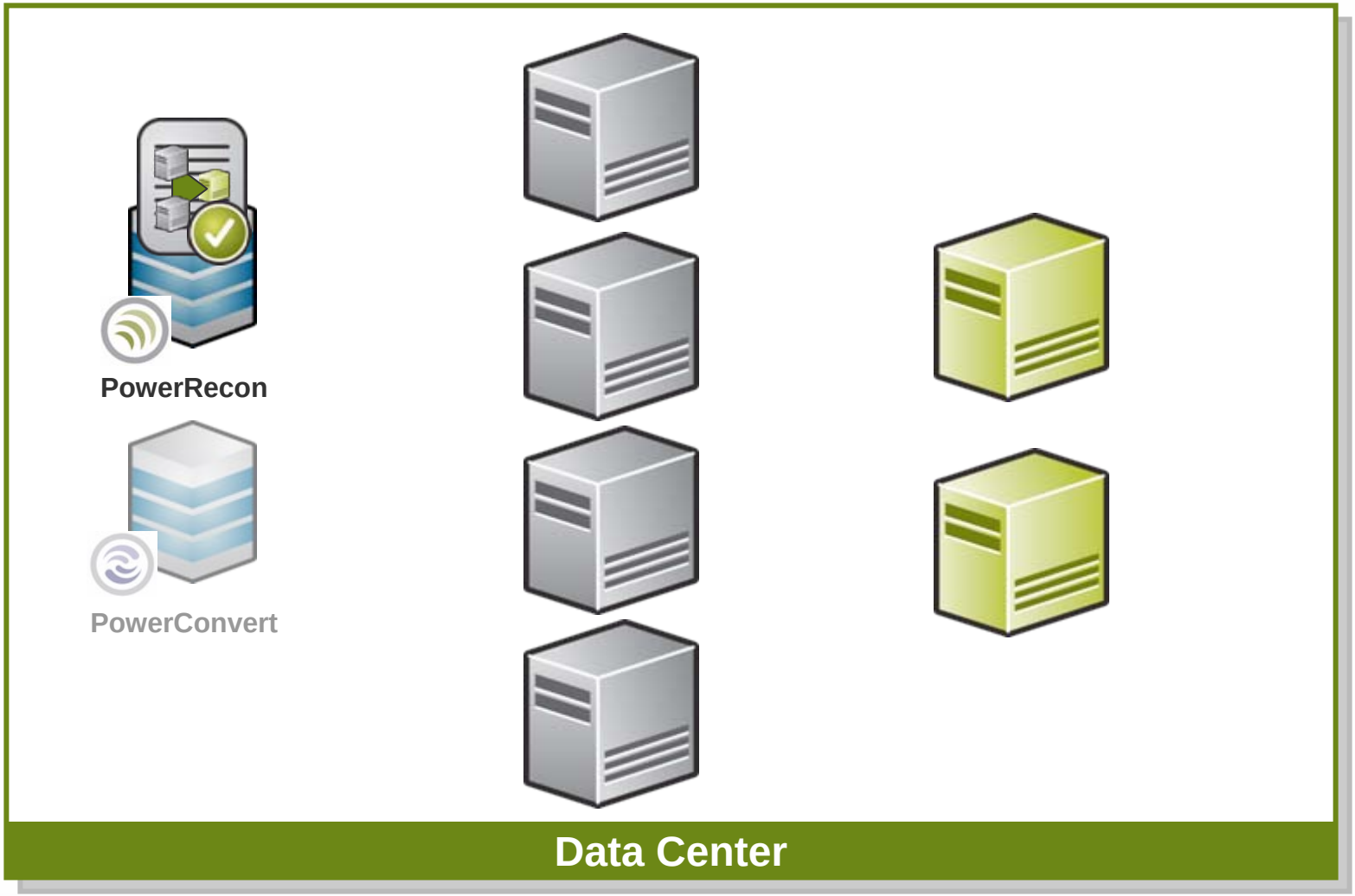


PowerSolution - Recovery

Inventory

Plan

Configure

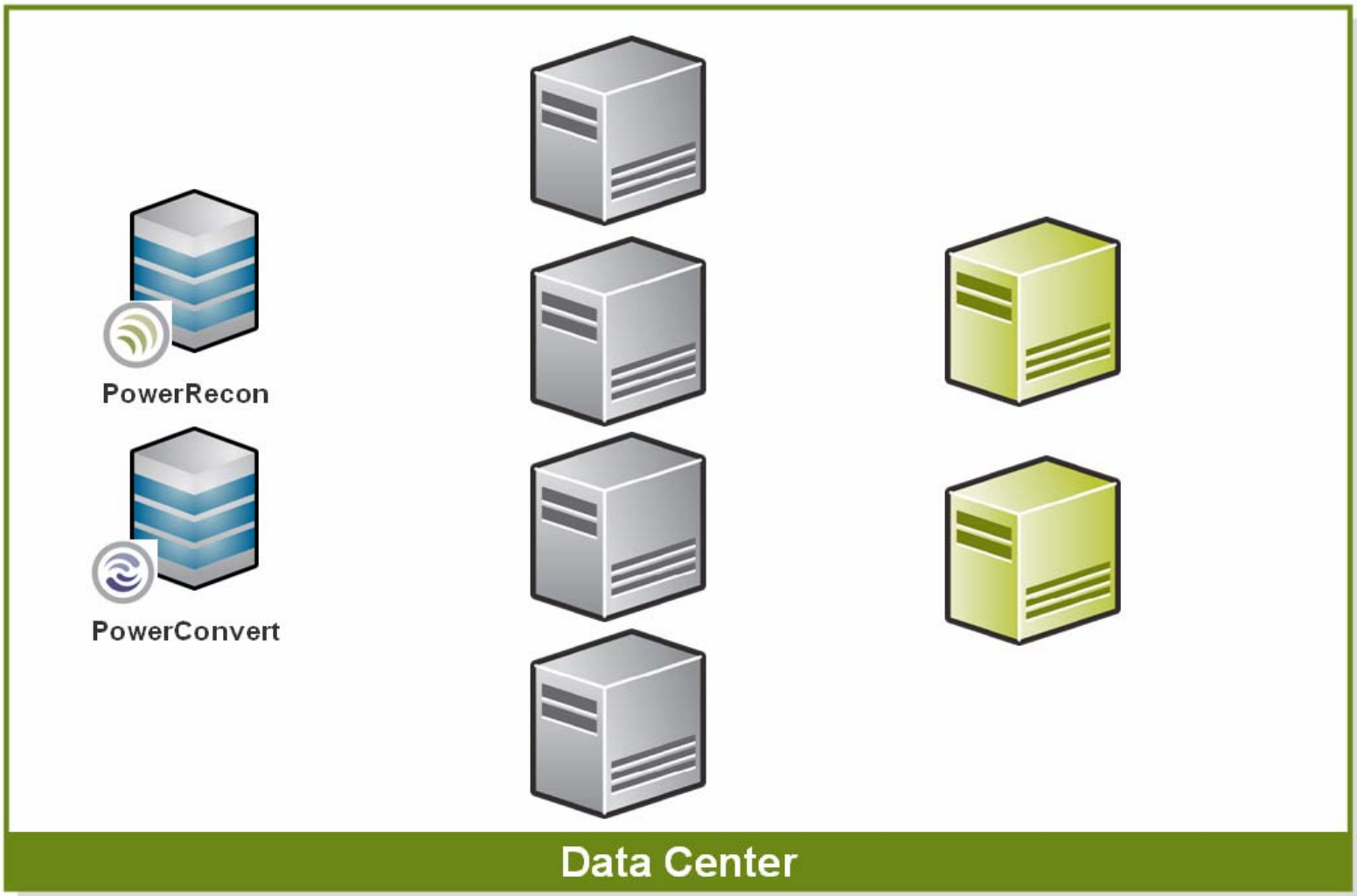


PowerSolution - Recovery

Inventory

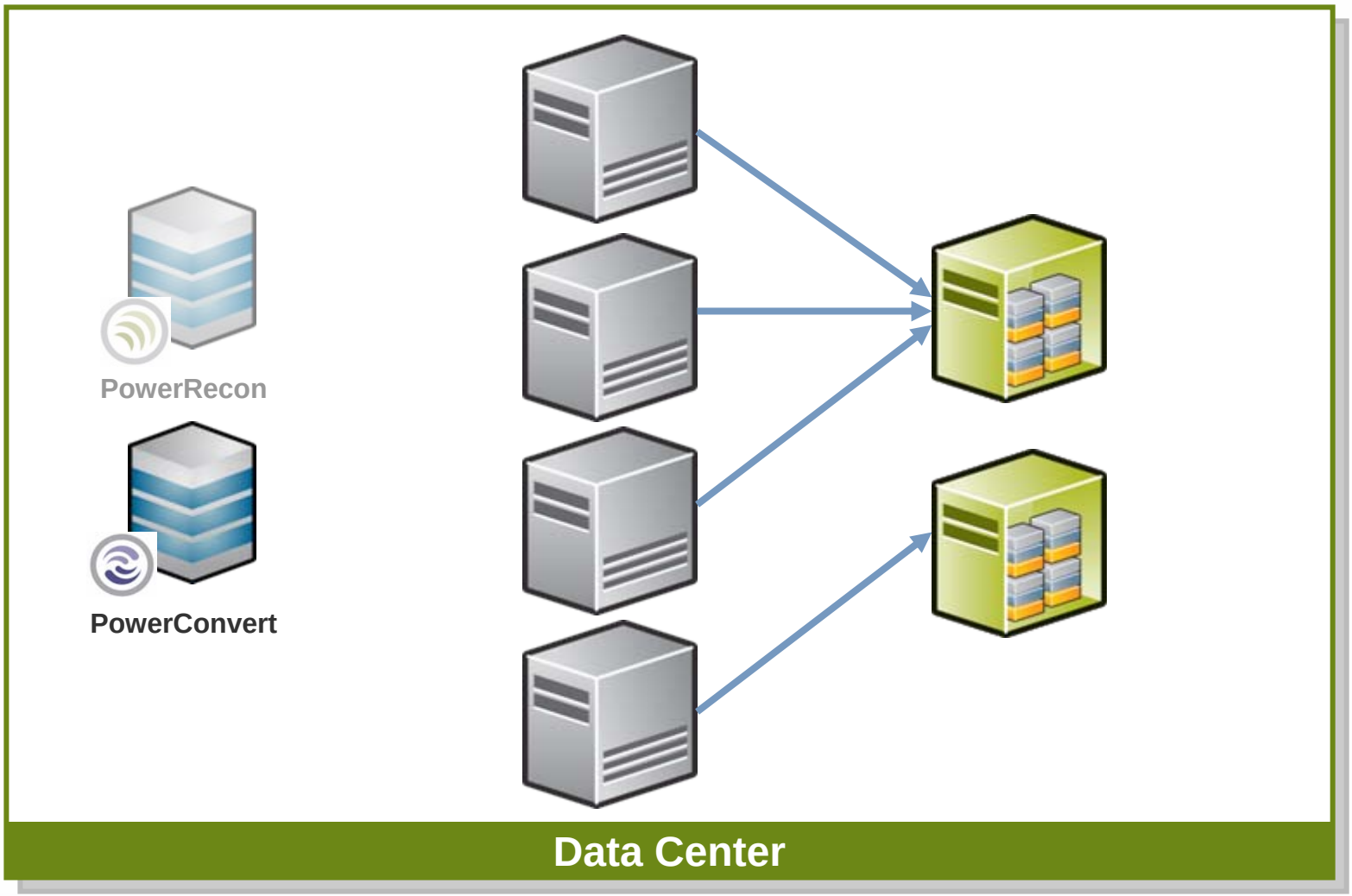
Plan

Configure



PowerSolution - Recovery

- Backup
- Replicate
- Test
- Failover
- Restore



PowerSolution - Recovery

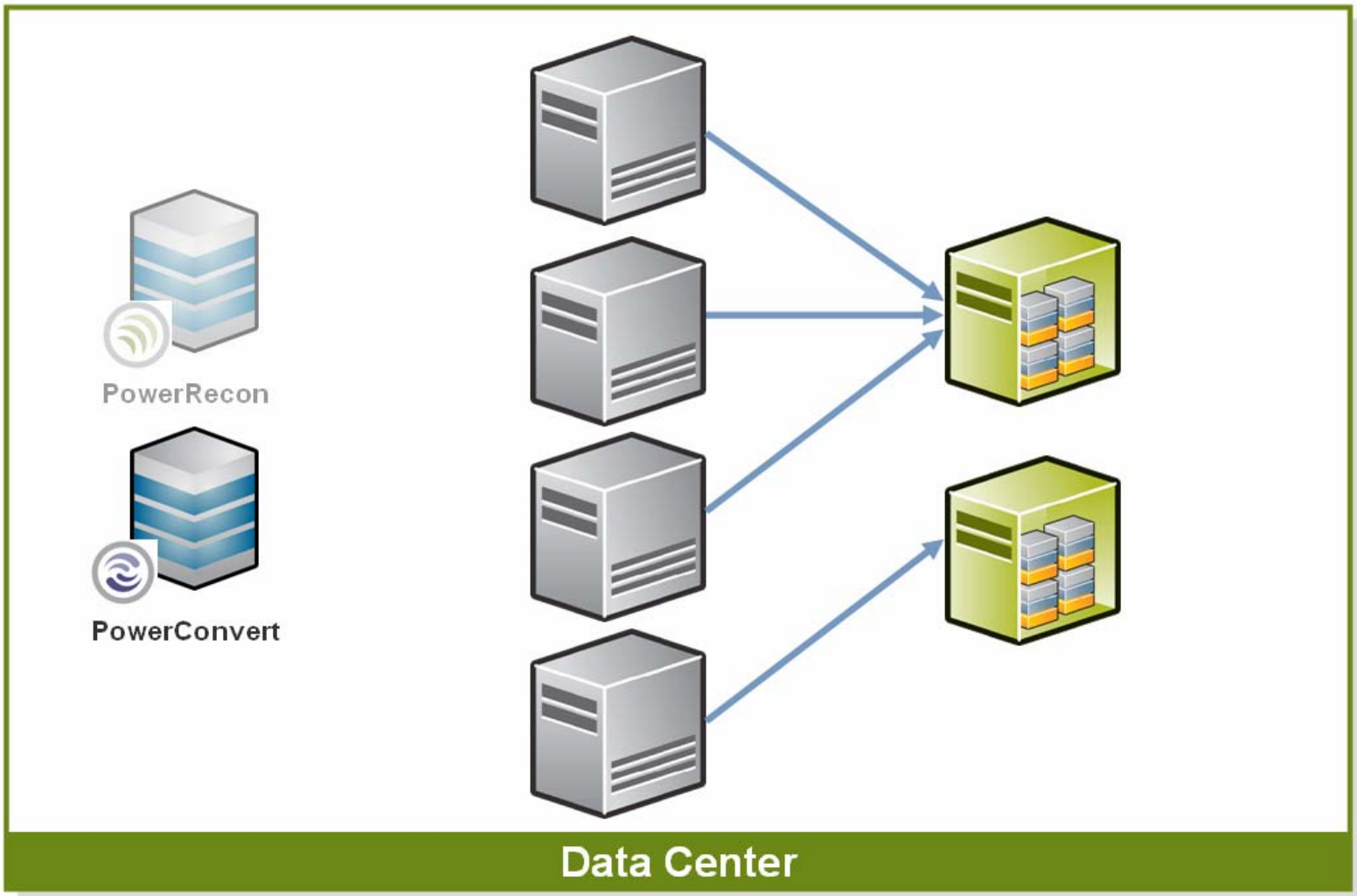
Backup

Replicate

Test

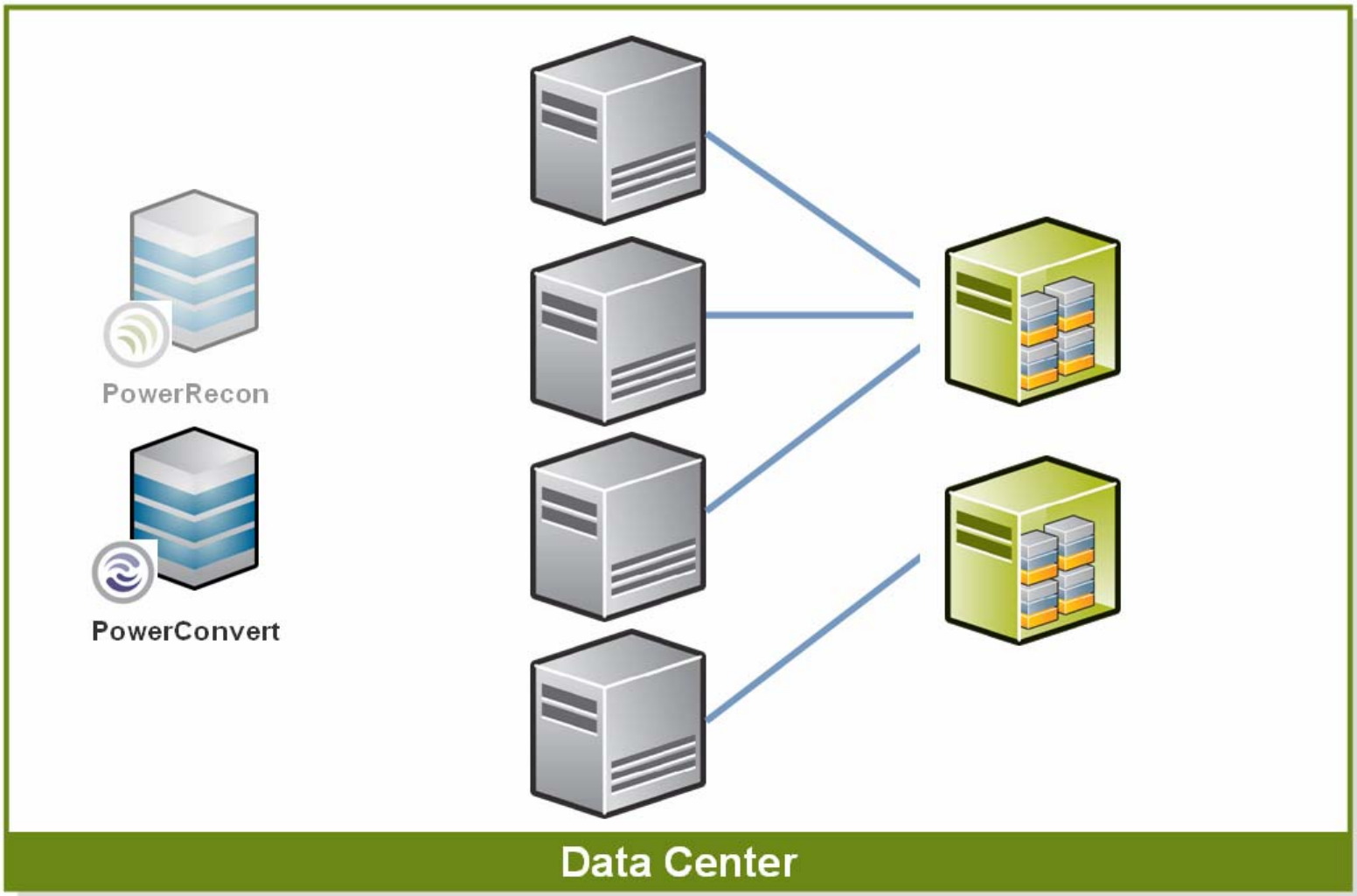
Failover

Restore



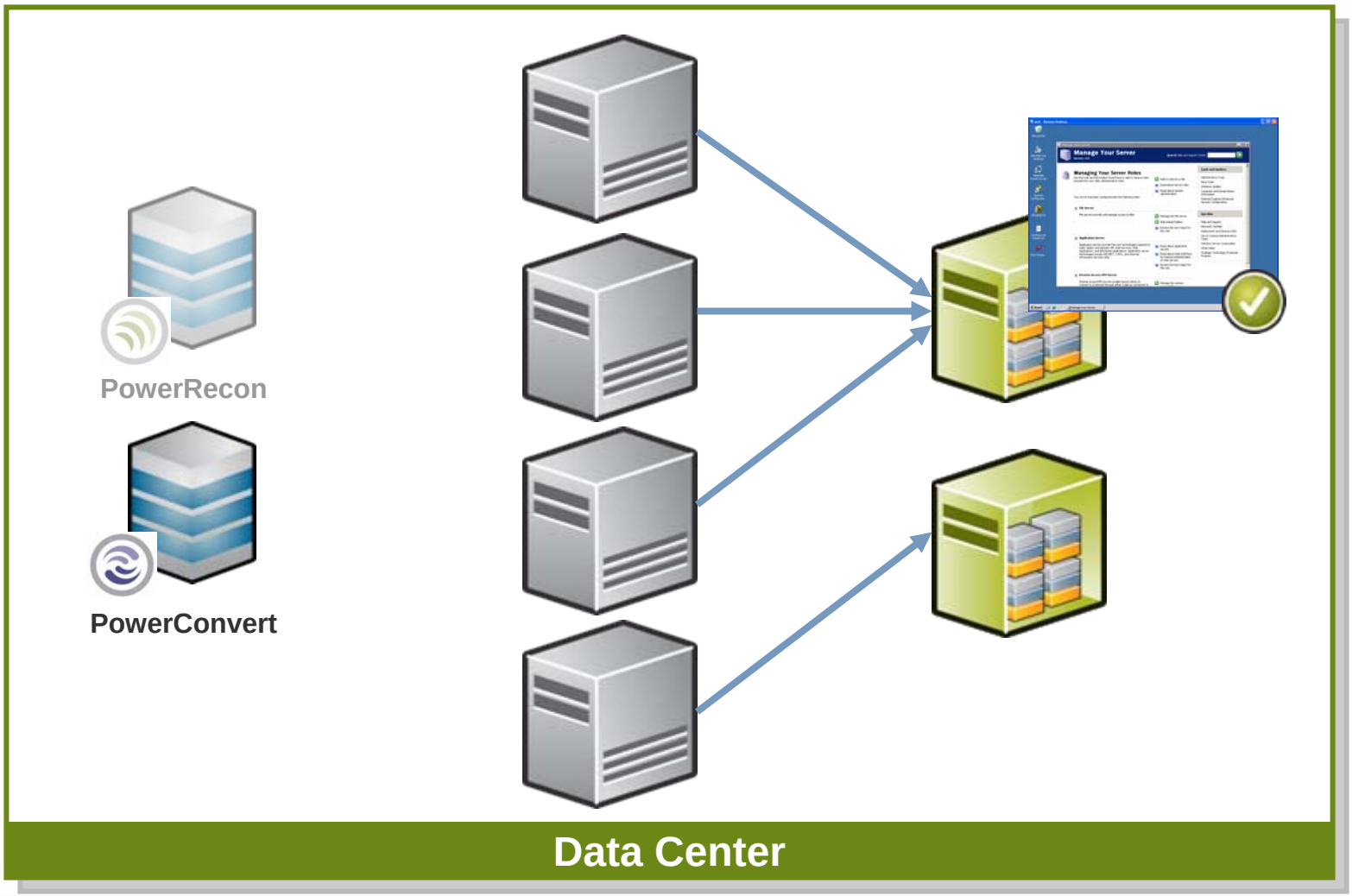
PowerSolution - Recovery

- Backup
- Replicate
- **Test**
- Failover
- Restore



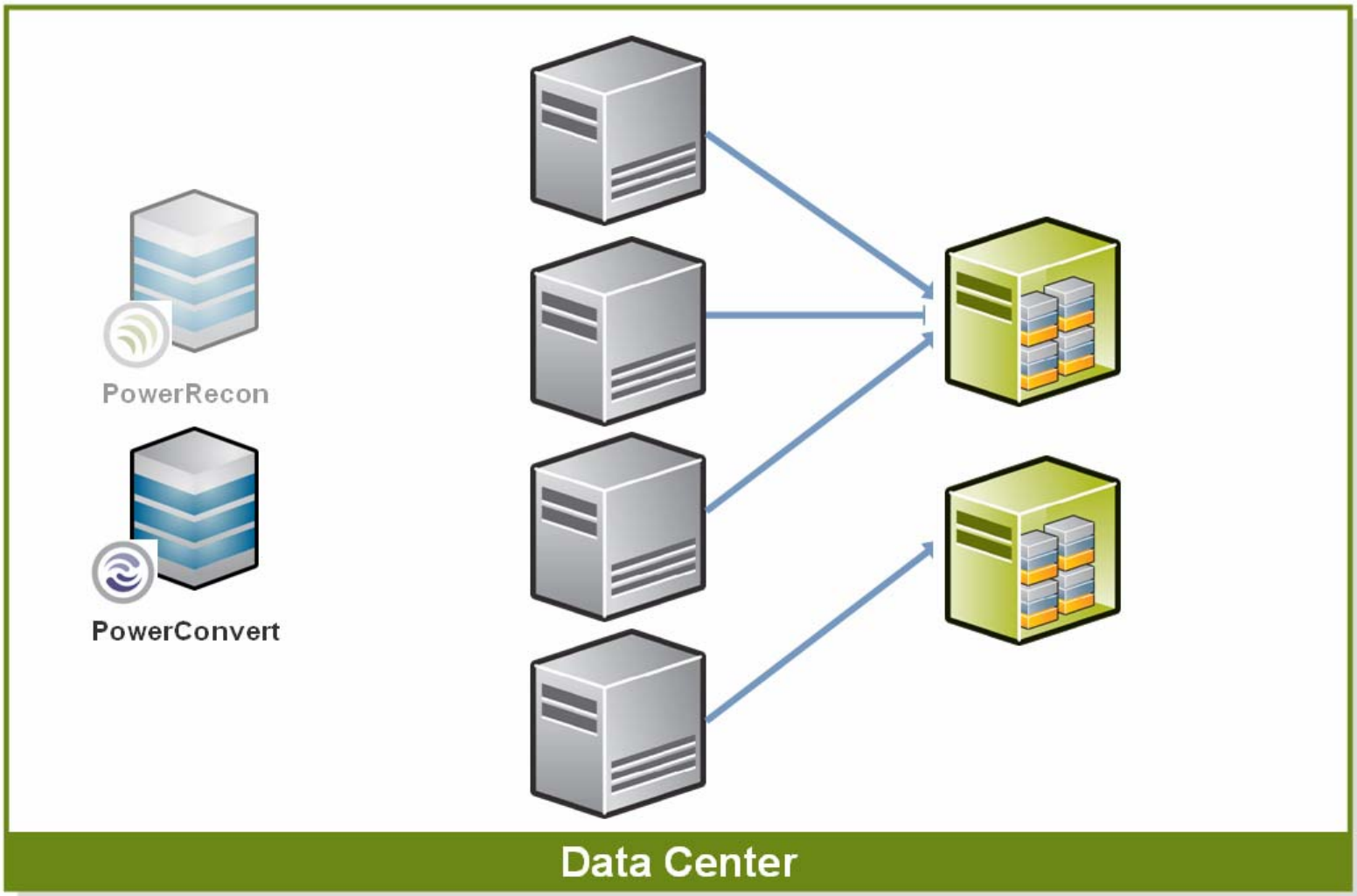
PowerSolution - Recovery

- Backup
- Replicate
- Test
- Failover
- Restore



PowerSolution - Recovery

- Backup
- Replicate
- Test
- **Failover**
- Restore



PowerSolution - Recovery

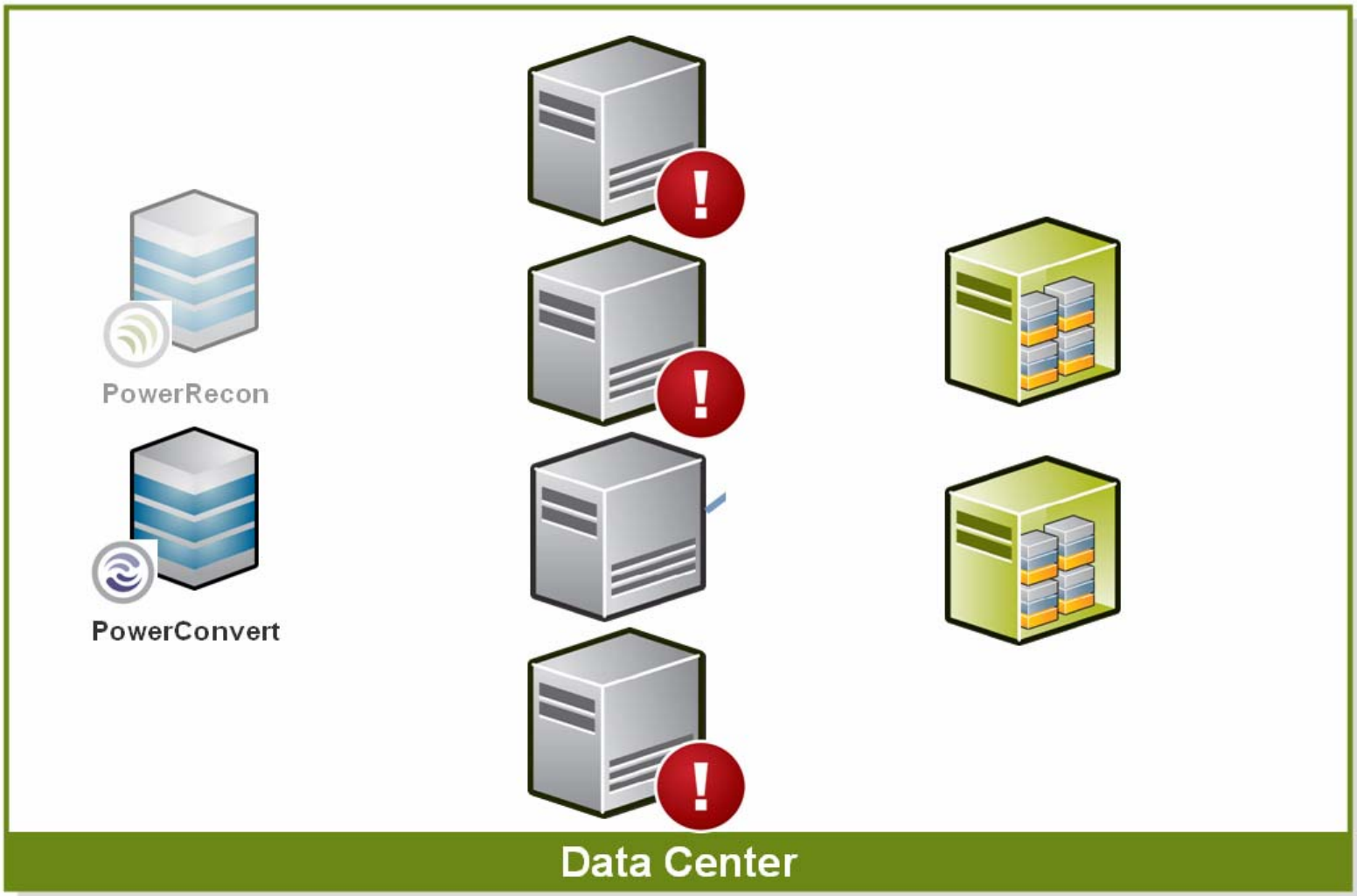
Backup

Replicate

Test

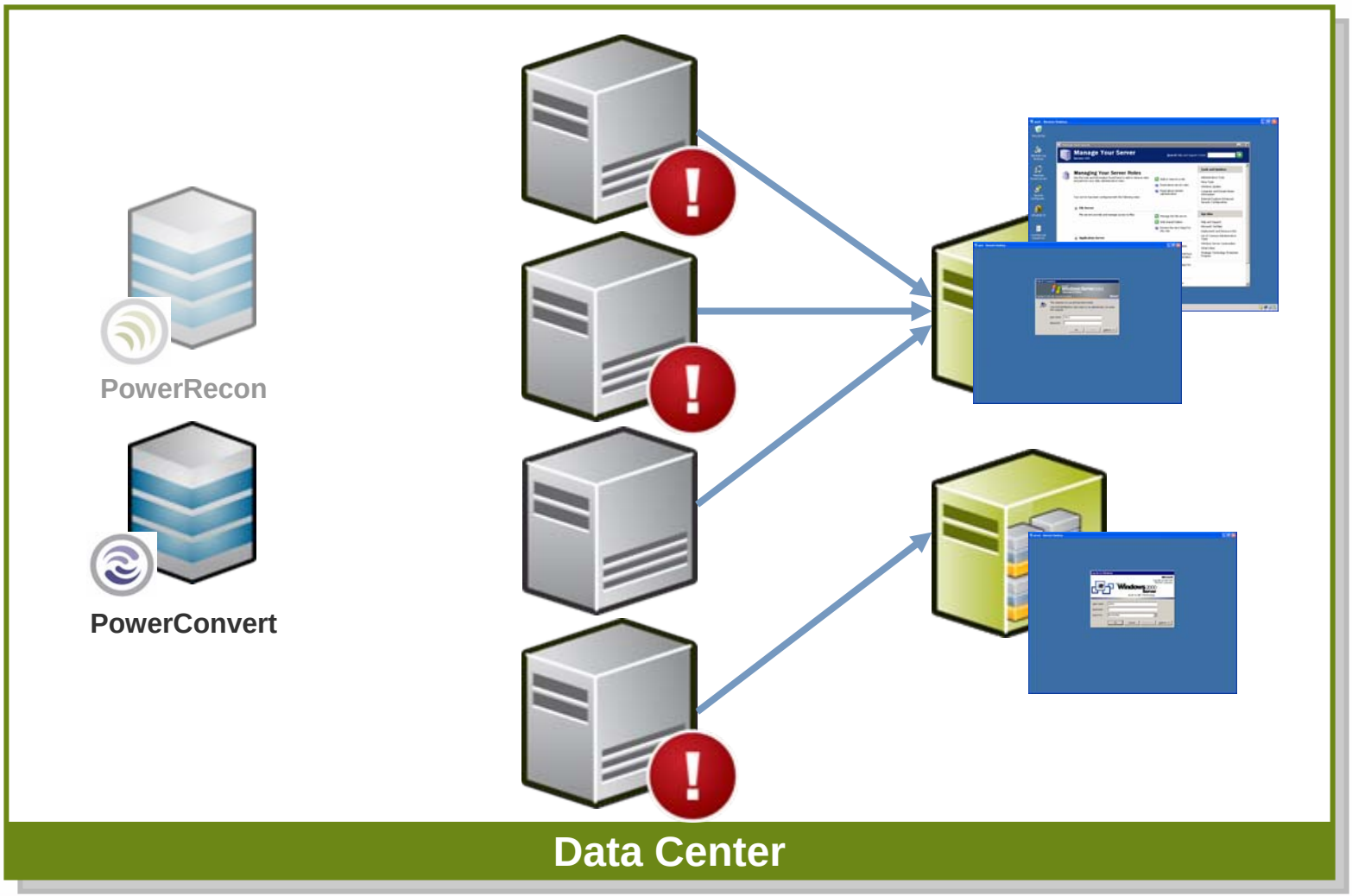
Failover

Restore



PowerSolution - Recovery

- Backup
- Replicate
- Test
- Failover
- Restore



PowerSolution - Recovery

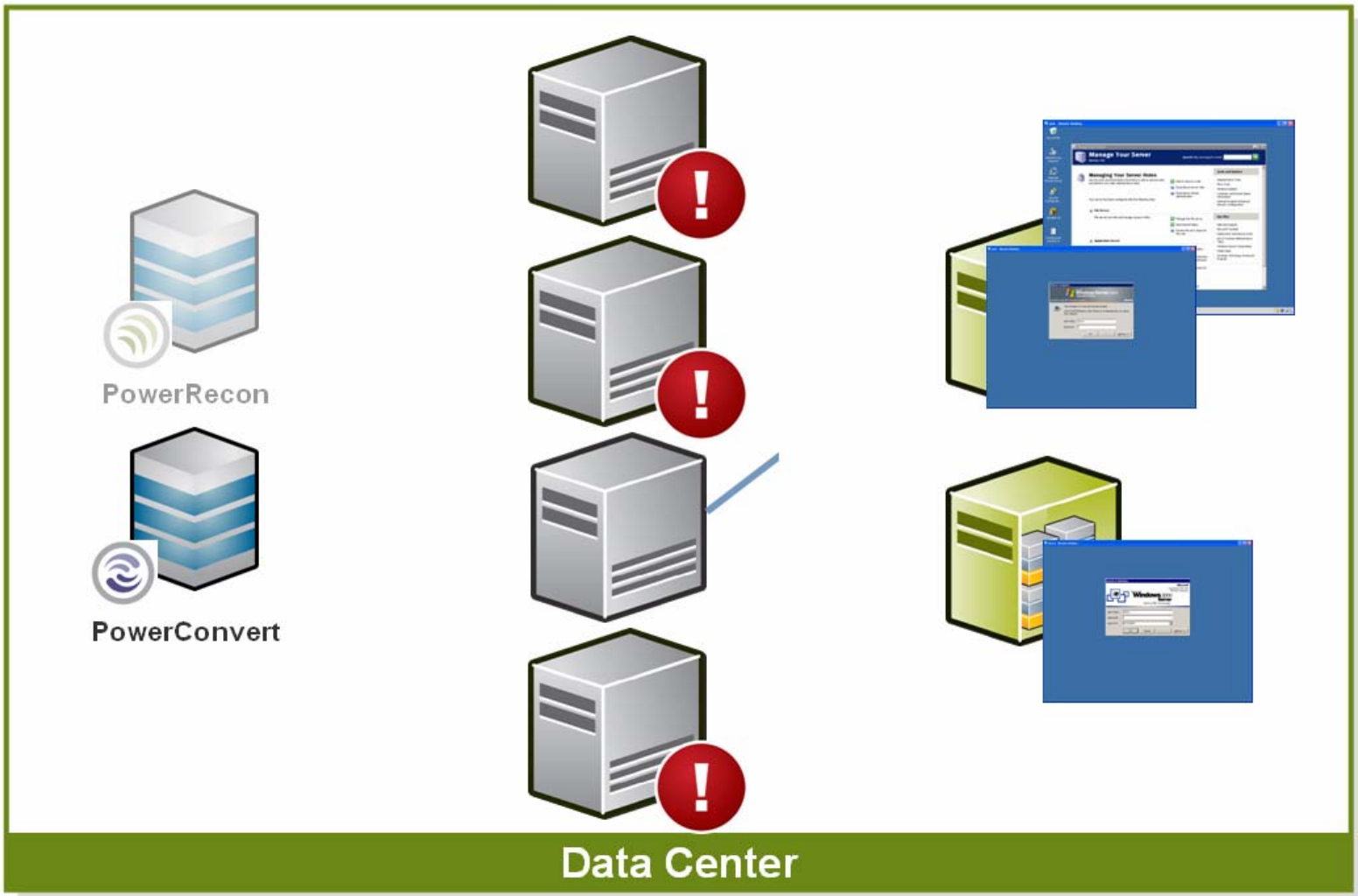
Backup

Replicate

Test

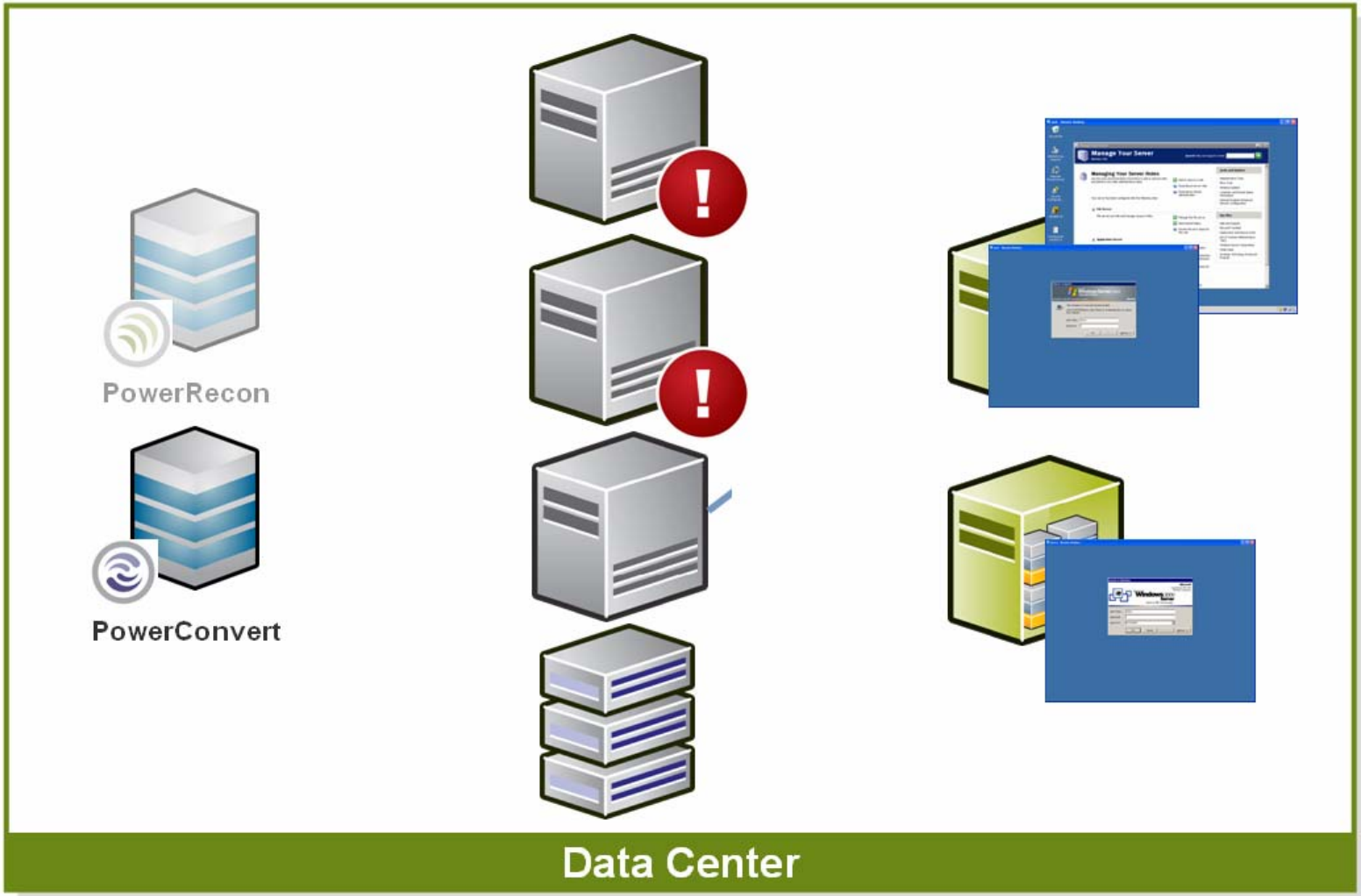
Failover

Restore



PowerSolution - Recovery

- Backup
- Replicate
- Test
- Failover
- **Restore**



PowerSolution - Recovery

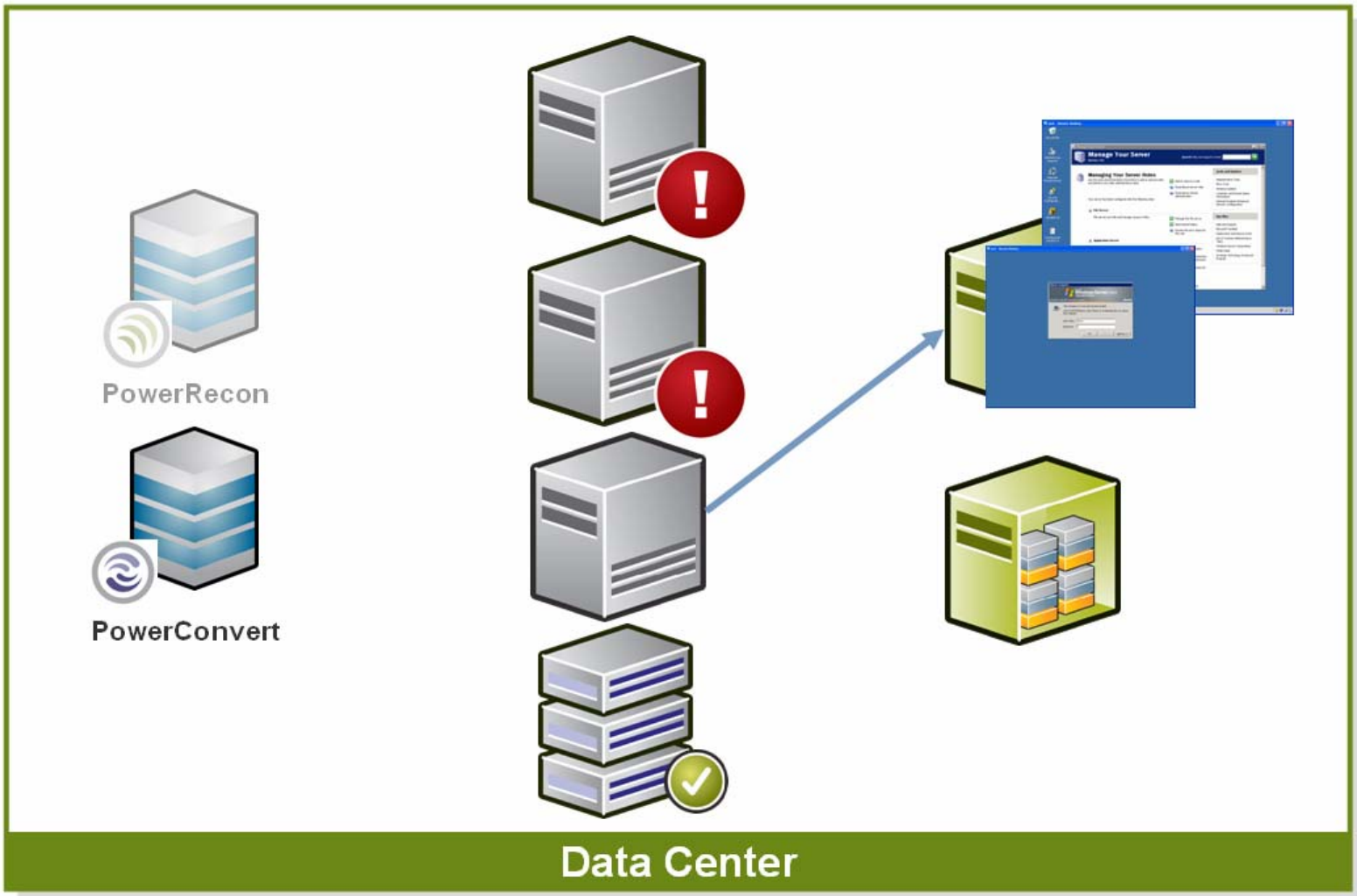
Backup

Replicate

Test

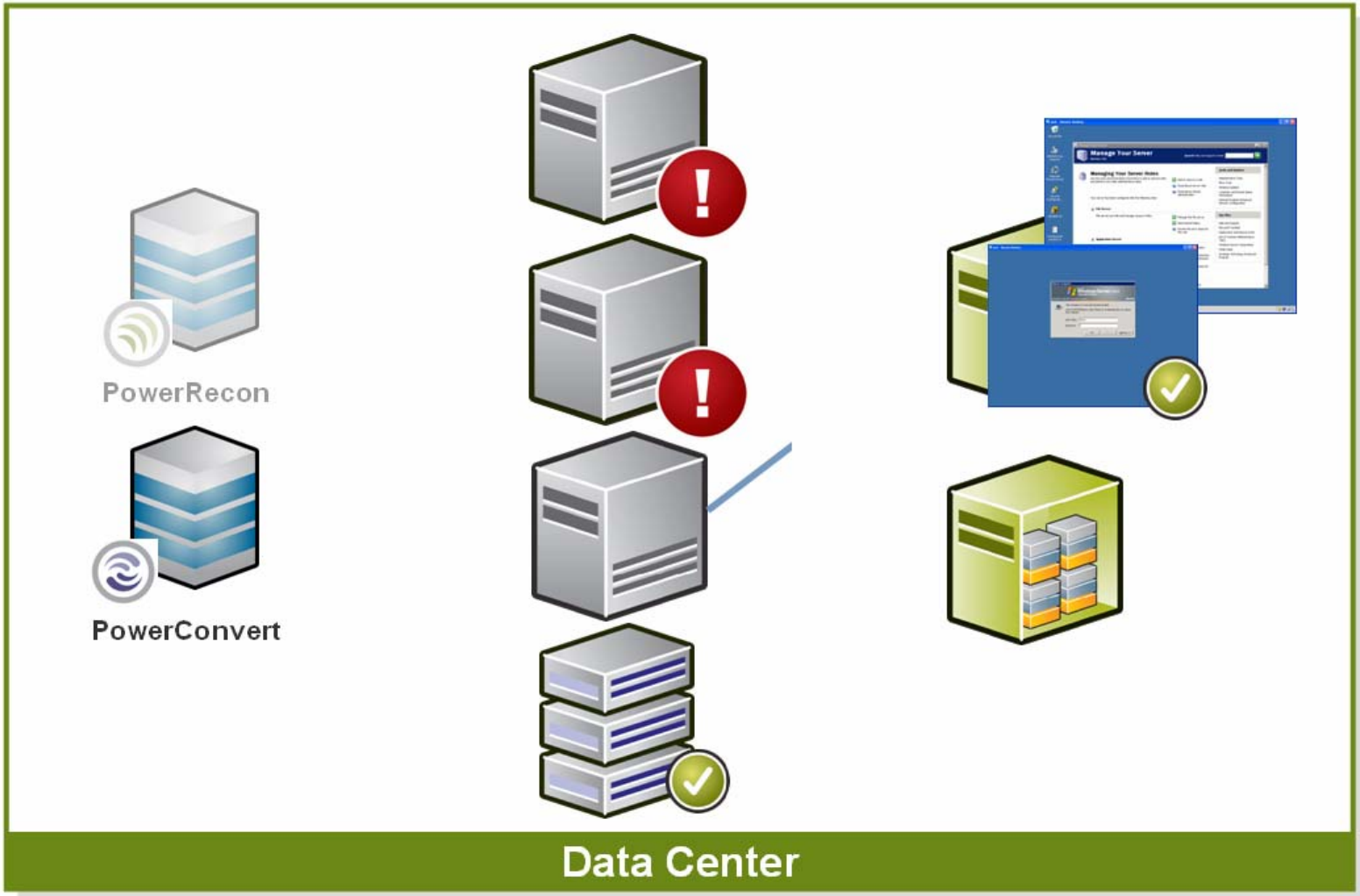
Failover

Restore



PowerSolution - Recovery

- Backup
- Replicate
- Test
- Failover
- **Restore**



PowerSolution - Recovery

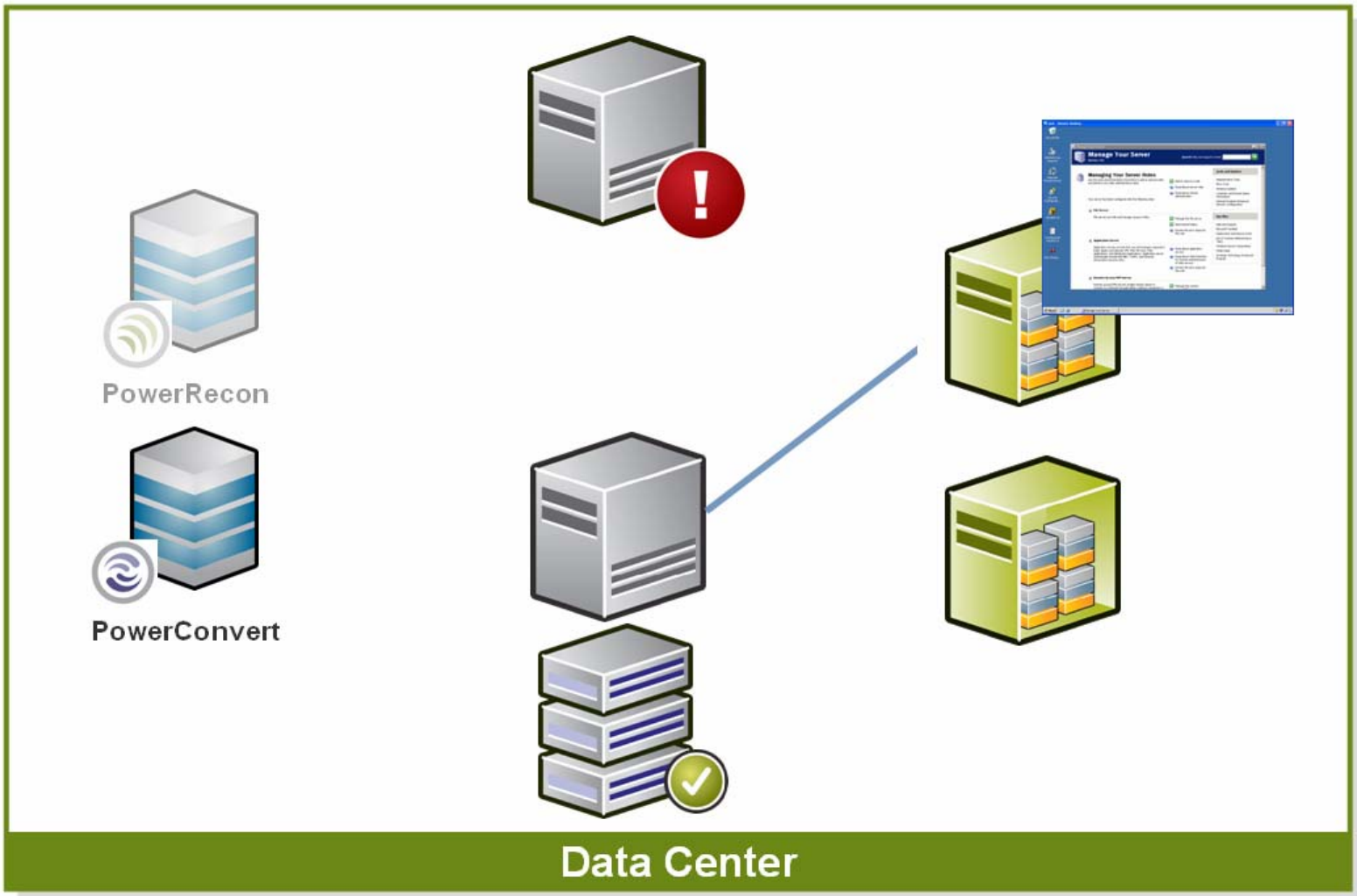
Backup

Replicate

Test

Failover

Restore



PowerSolution - Recovery

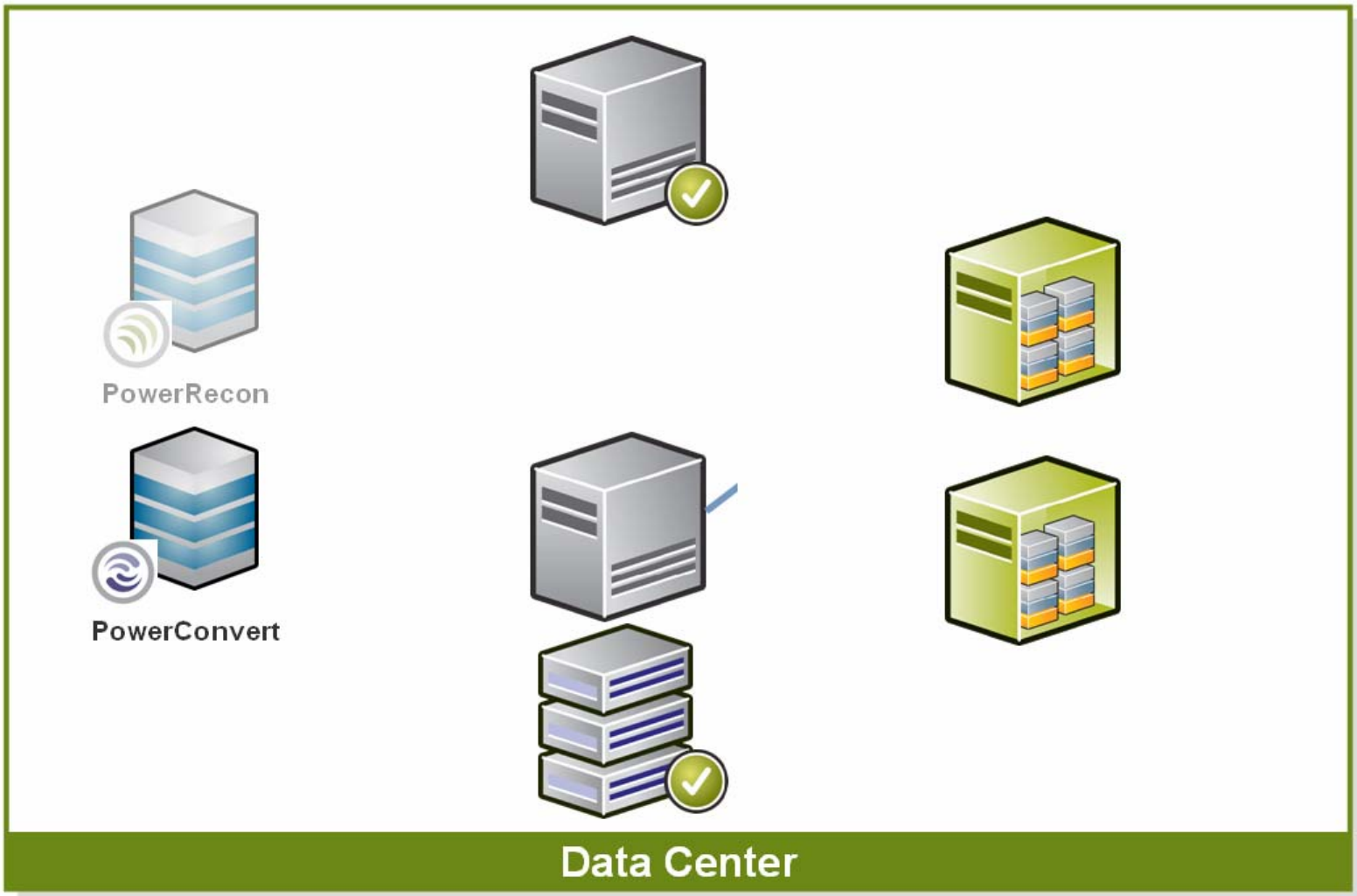
Backup

Replicate

Test

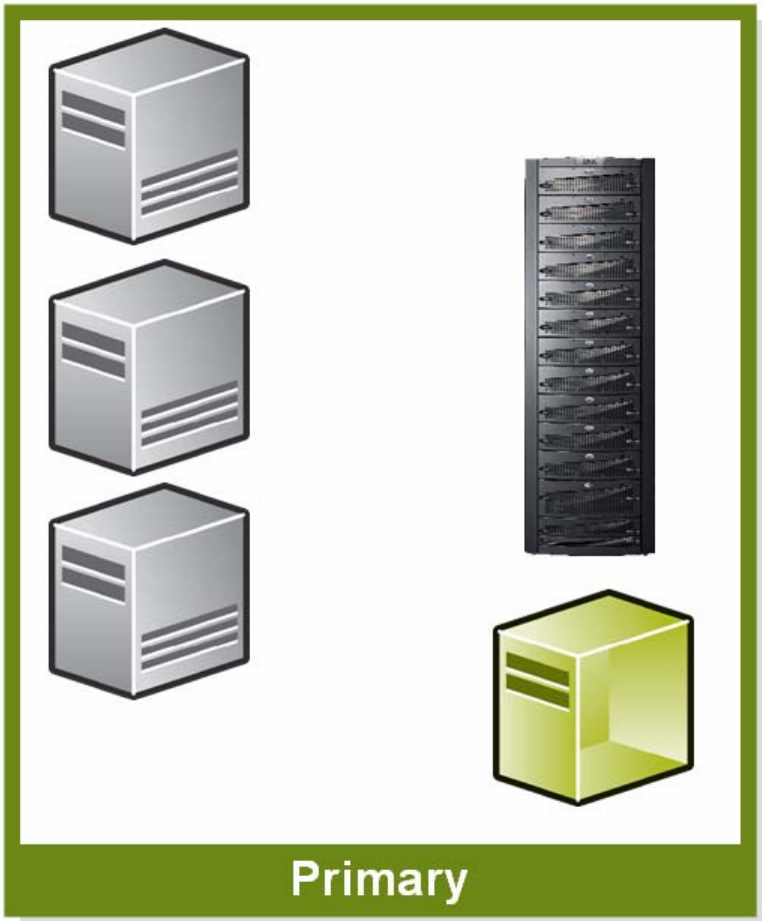
Failover

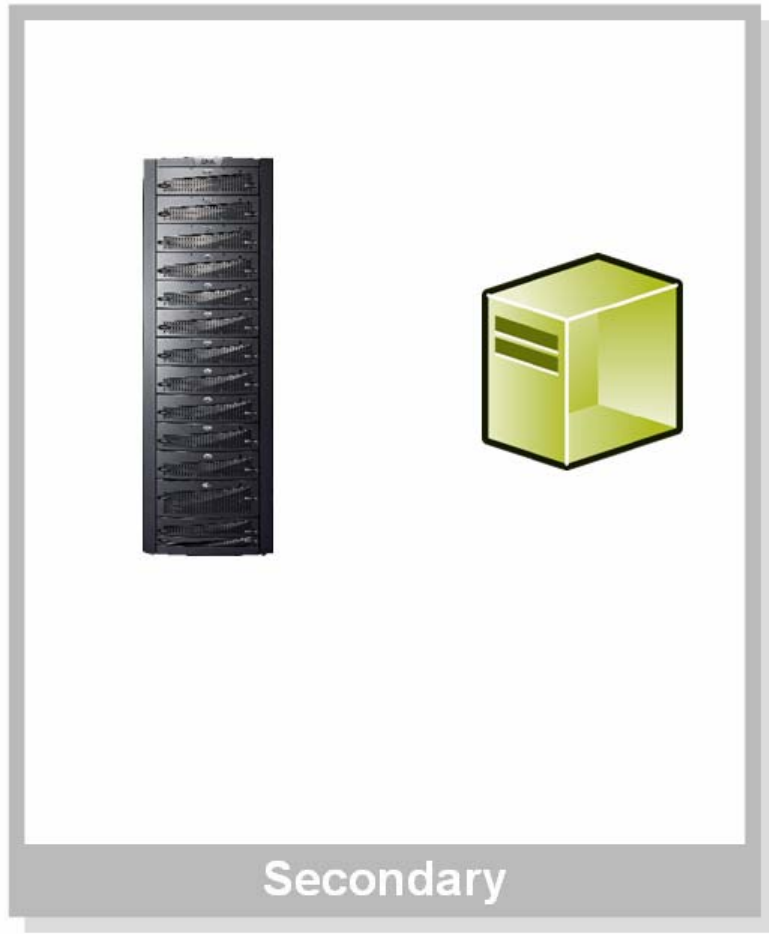
Restore



Off Site SAN Replication

- Backup
- Replicate
- Test
- Failover
- Restore





PLATESPIN

Off Site SAN Replication

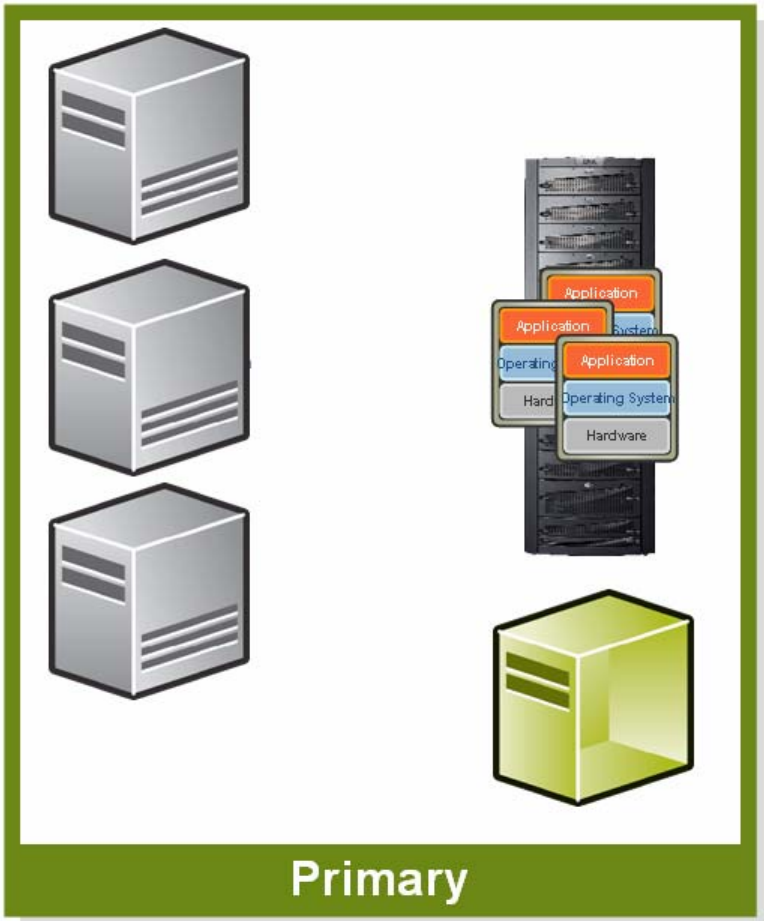
Backup

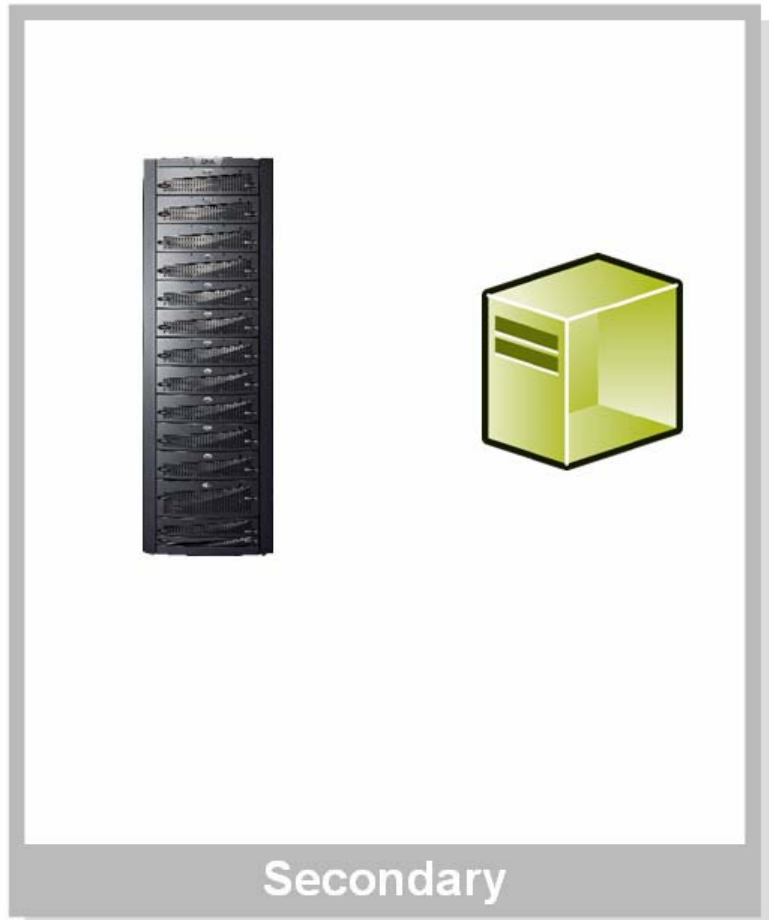
Replicate

Test

Failover

Restore





PLATESPIN

Off Site SAN Replication

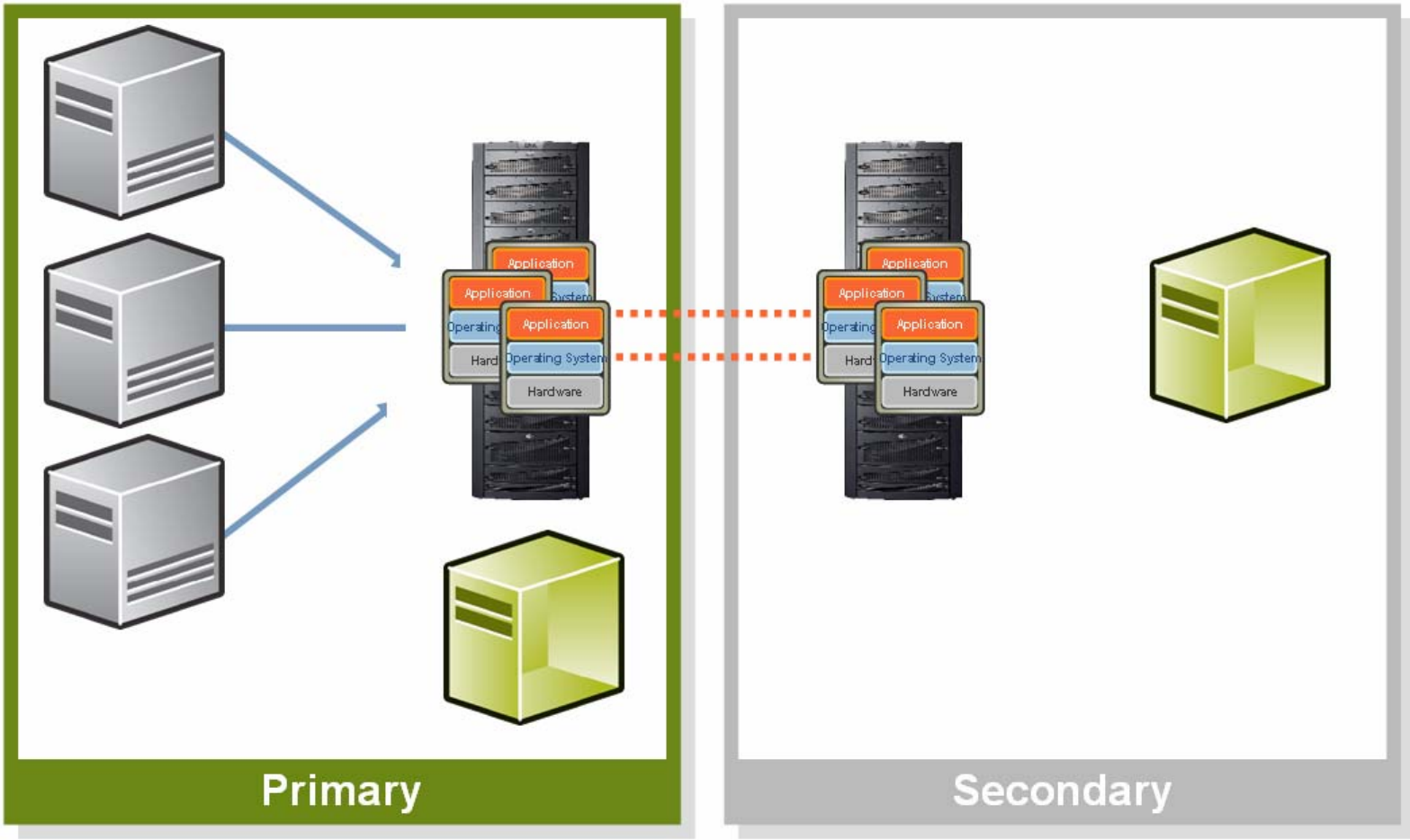
Backup

Replicate

Test

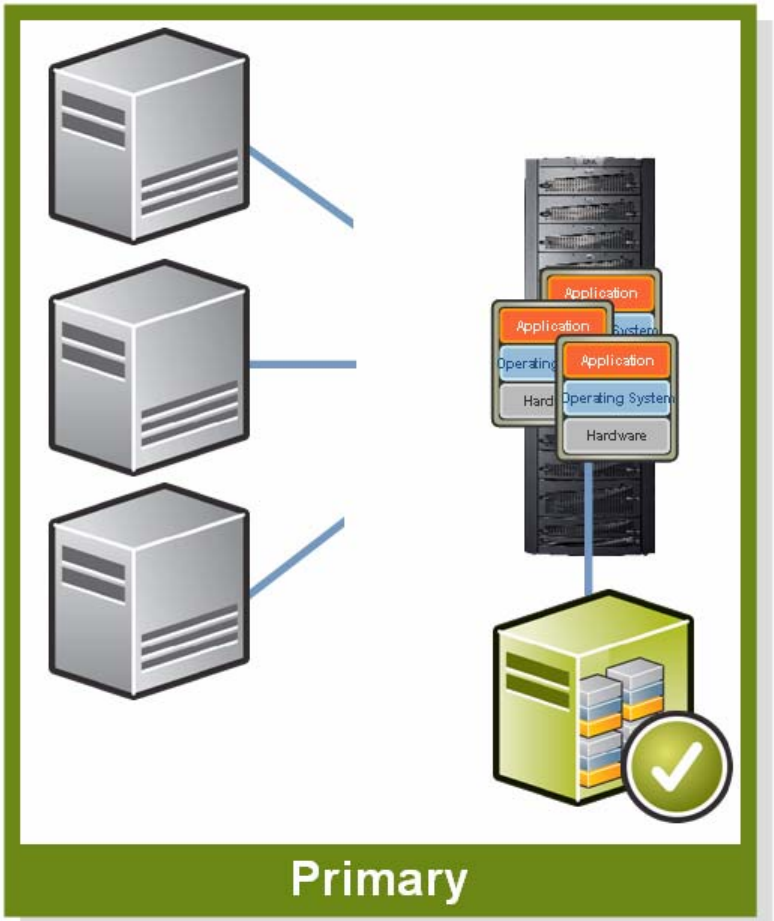
Failover

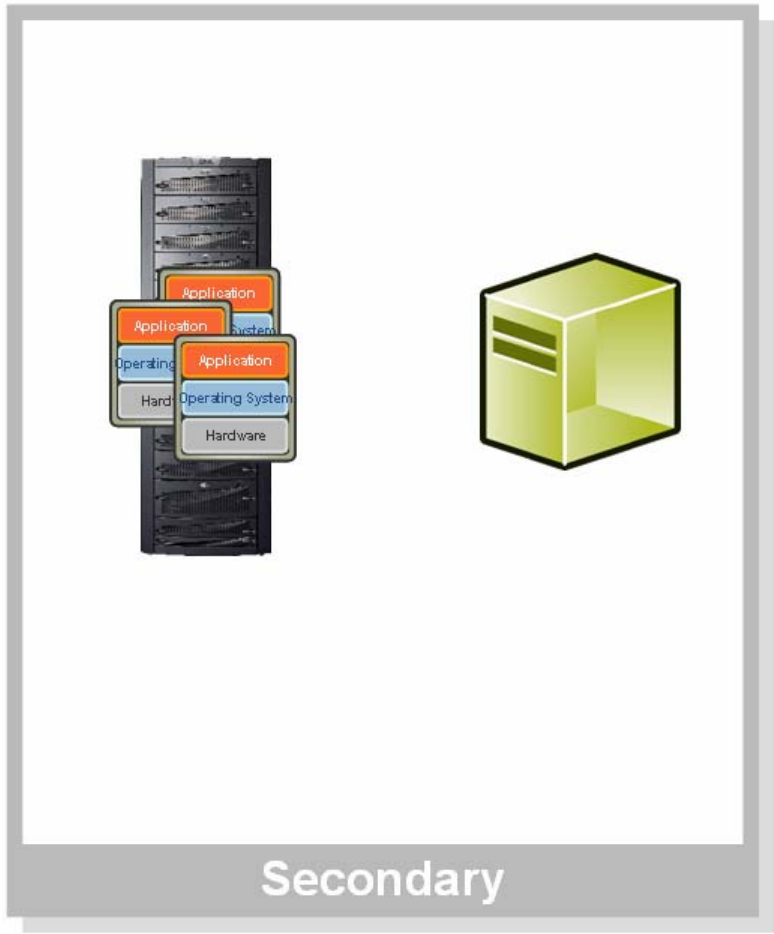
Restore



Off Site SAN Replication

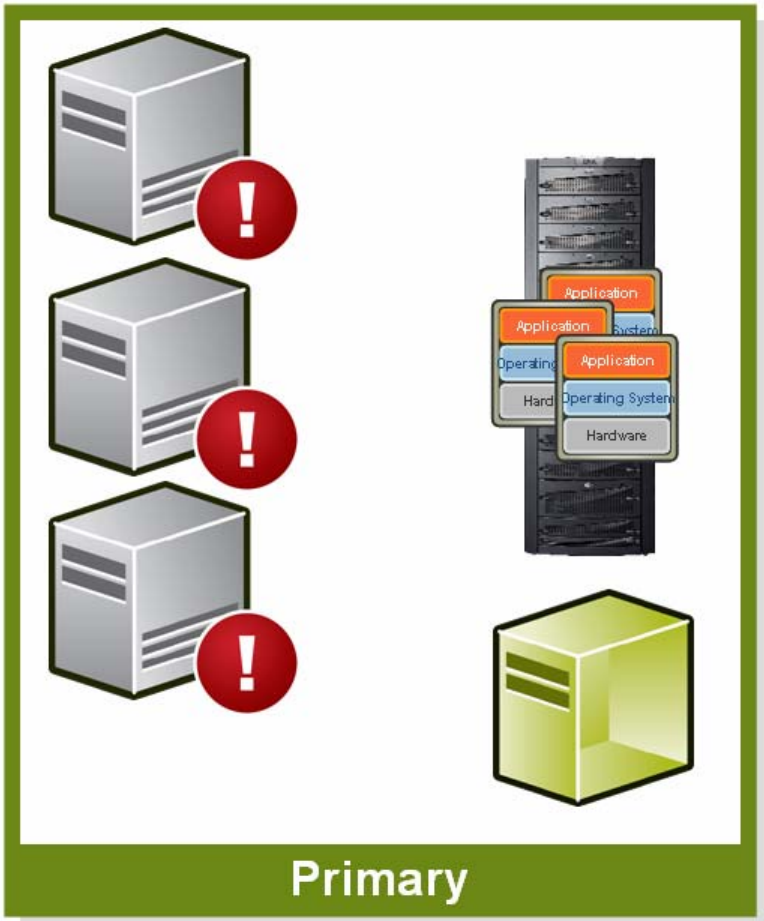
- Backup
- Replicate
- Test
- Failover
- Restore

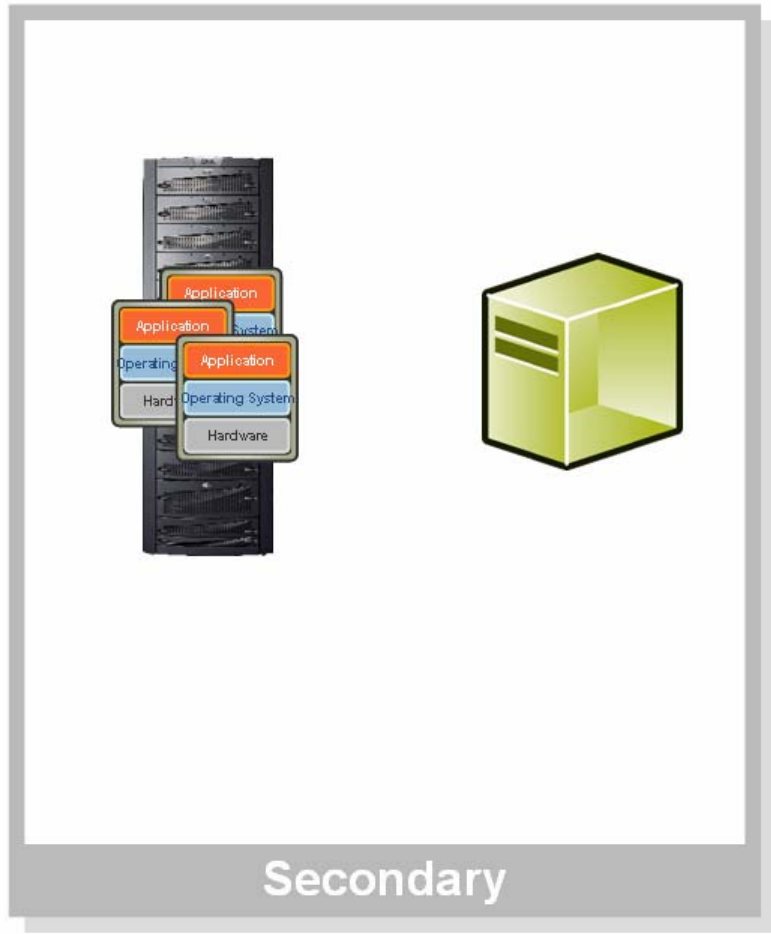




Off Site SAN Replication

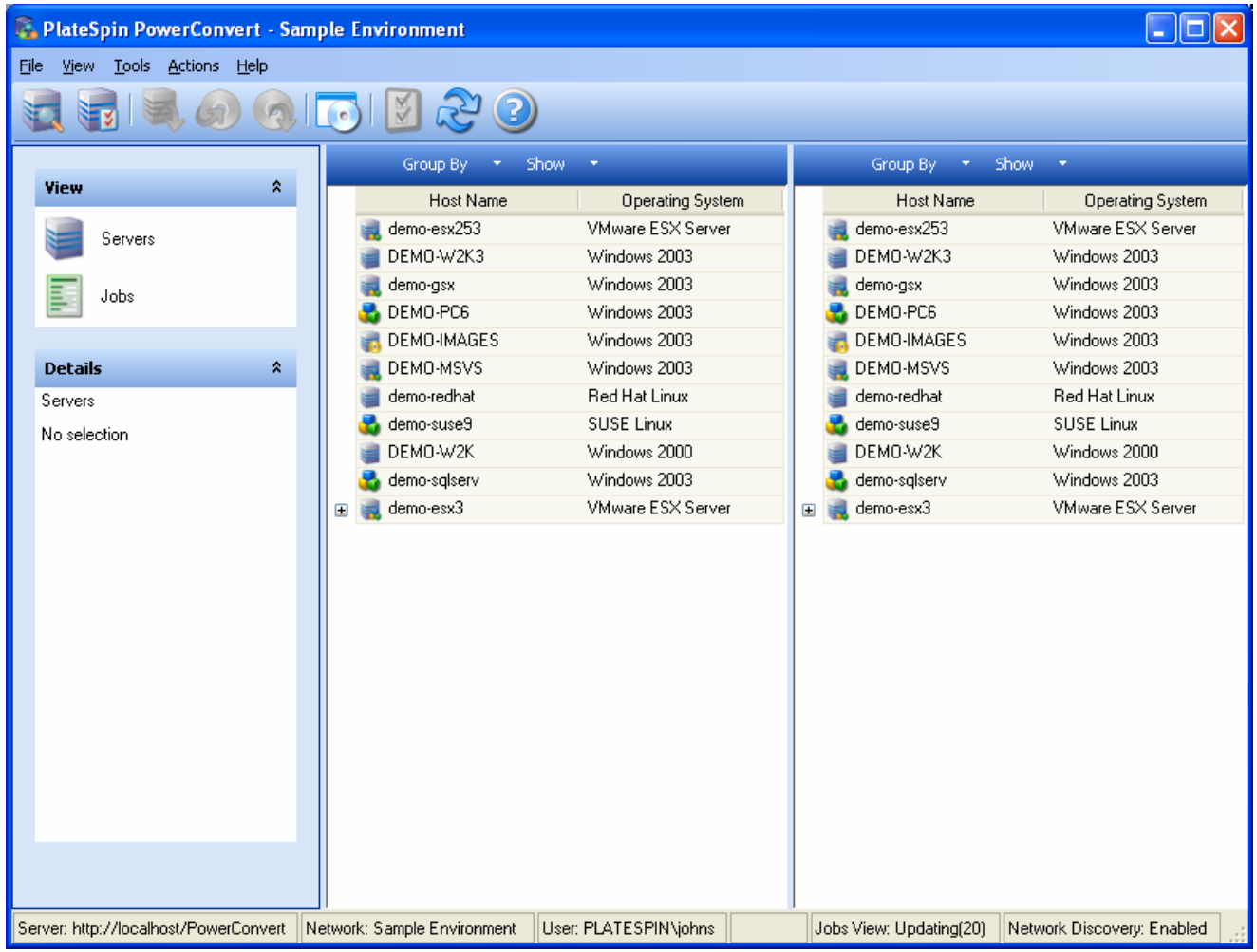
- Backup
- Replicate
- Test
- Failover
- Restore



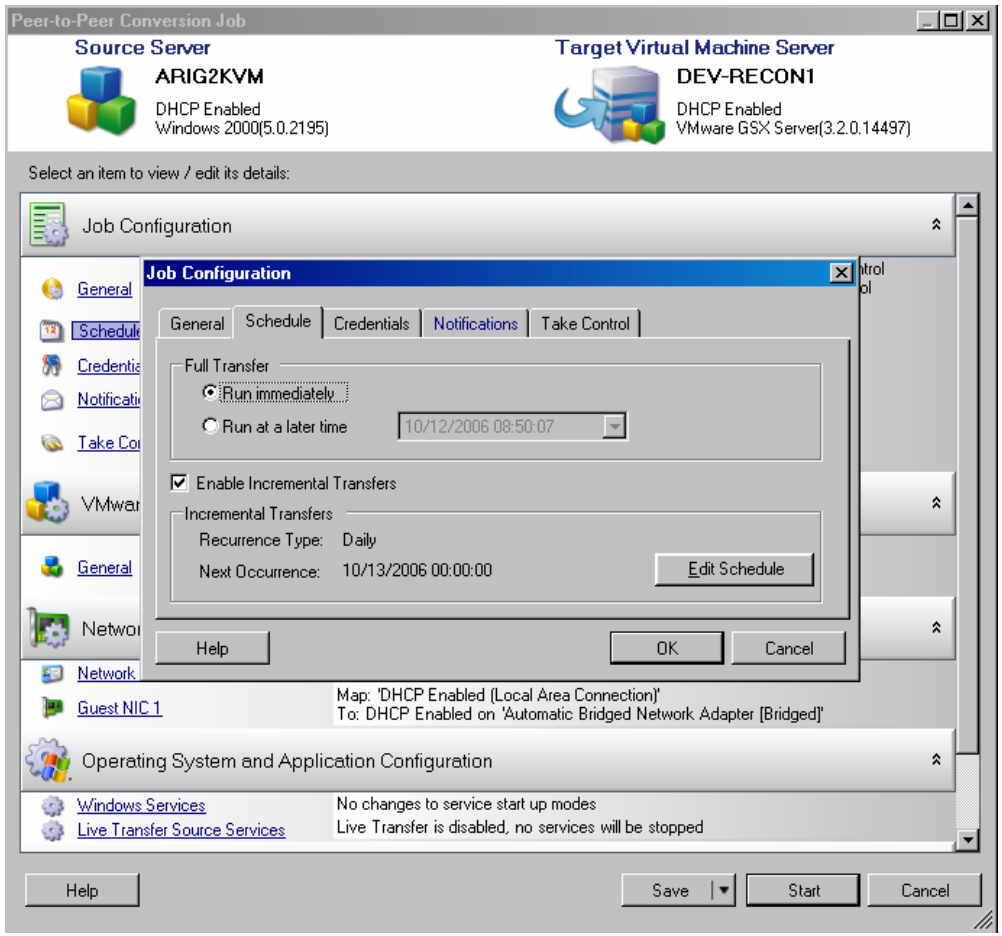


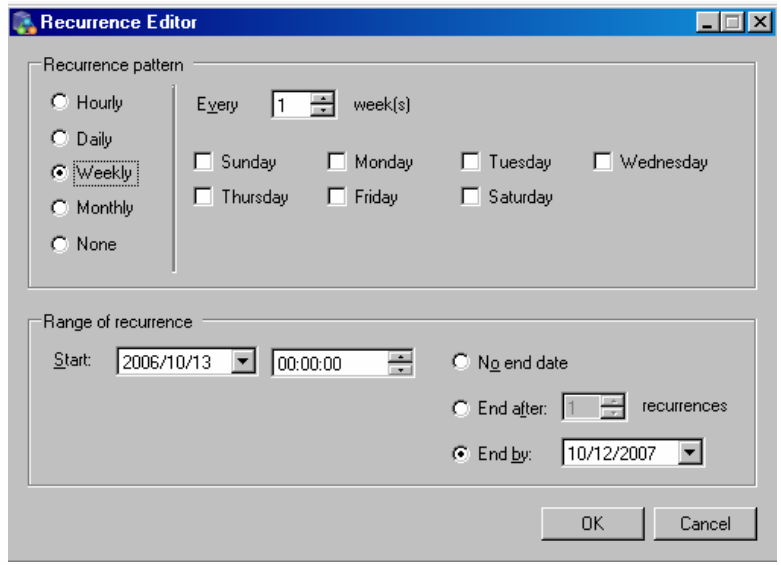
Demo Overview

- Discovery Servers
- Configure Replication Job
- Run Replication Job
- Test Recovery
- Run Full Recover Job

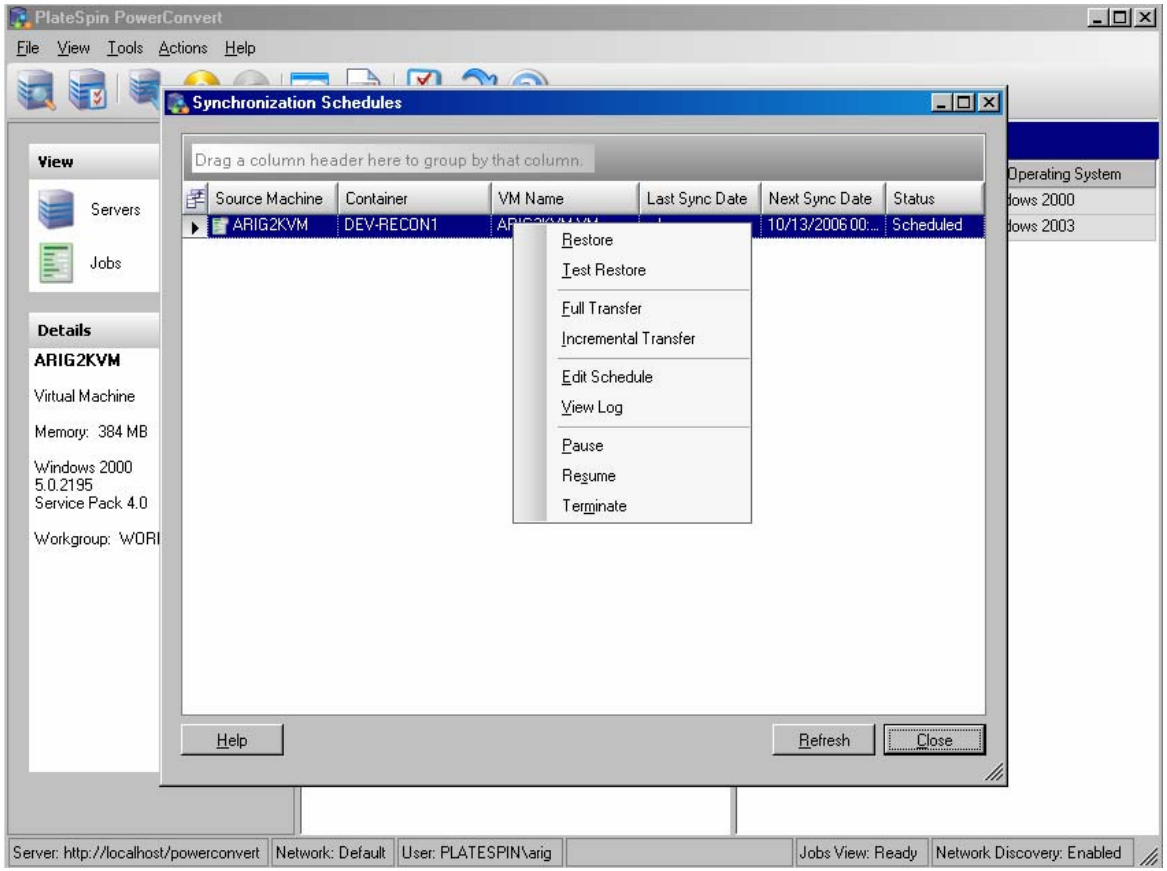


Configuring a Job





Managing Synchronization Schedules



- Central management interface
- Audit history
- Manage contract and jobs
  - Pause
  - Force
  - Edit
  - Delete

The Final Word

Virtual Infrastructure

Visibility and Planning

OS Portability

- The more workload that can be made available for the right price, the more resilient your datacenter can be
- Planning and testing are essential
- Simple planning and simple testing are the key to success

Come see a live demo at the PlateSpin Booth #635

Presentation Download

Please remember to complete your
session evaluation form
and return it to the room monitors
as you exit the session

The presentation for this session can be downloaded at
http://www.vmware.com/vmtn/vmworld/sessions/

Enter the following to download (case-sensitive):

Username: cbv_rep
Password: cbvfor9v9r

VMWORLD 2006