Disaster Recovery in the Cloud

What You Will Learn

1. The Need for Disaster Recovery
2. Public, Private and Hybrid Cloud
3. DR and the Cloud
4. Products from Novell

The Need for Disaster Recovery

Why Downtime Matters

$41.3 Billion

Total economic damage from disaster in 2009*

$10.8 Billion

Economic impact felt in the US from disasters in 2009*

**September 2, 2010 , Business Continuity and Disaster Recovery are top IT Priorities for 2010 and 2011 - Forrester*

Better Understanding of Protection

78% of enterprises have indicated that improving disaster recovery capabilities is a high priority*

Critical Priority 30% - High Priority 48%

- Better able to identify and quantify risk
- Better understanding of economic impact
- Less tolerance for downtime and data loss

*Jan. 25, 2010 – The State of Enterprise IT: 2009 to 2010 - Forrester

Define Your Objectives

Recovery Time Objective (RTO)

- Time between declaration and service availability
- Time to restore services to useable state

Recovery Point Objective (RPO)

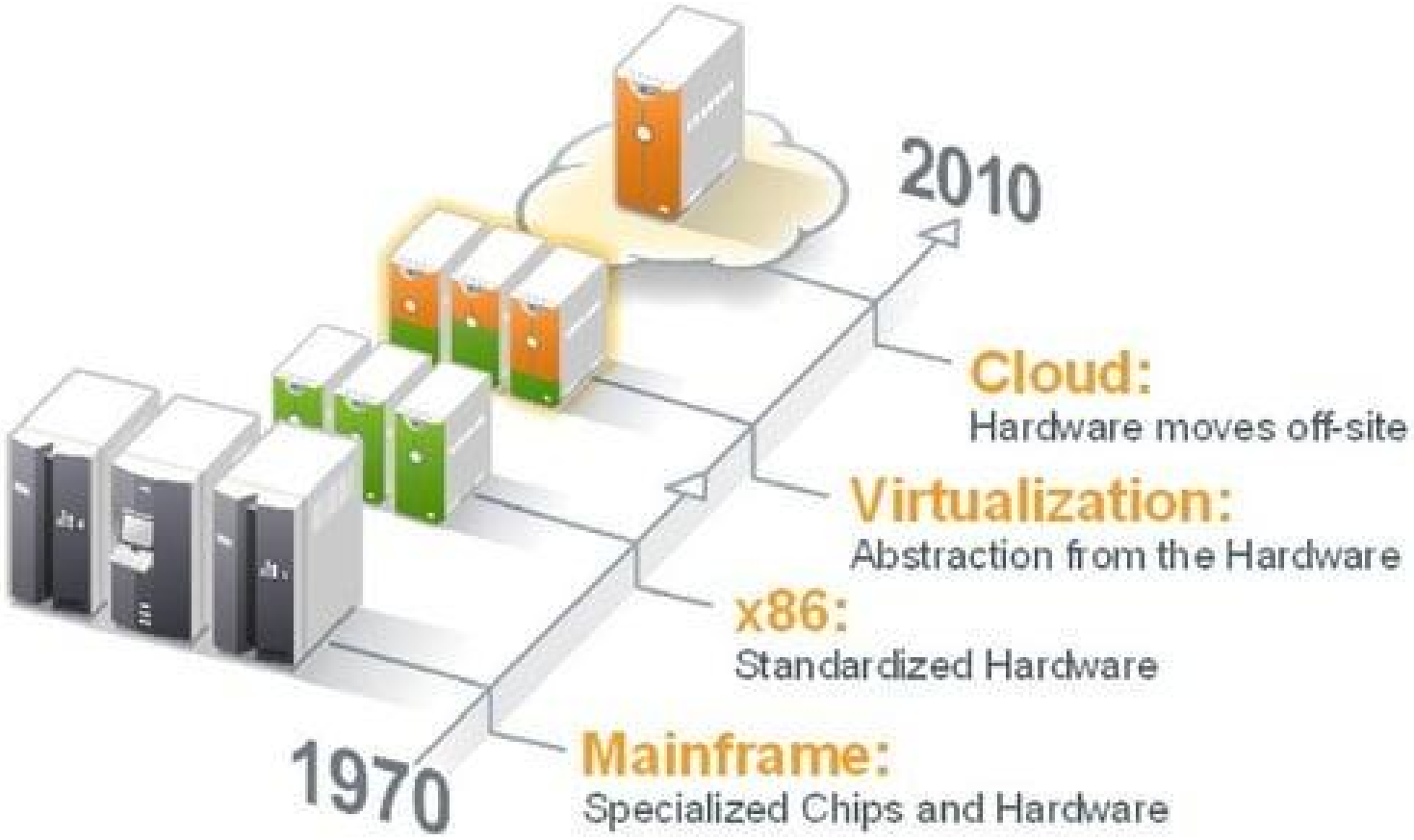
- Data in system lost at disaster time
- Amount of data entered since last backup

Test Time Objective (TTO)

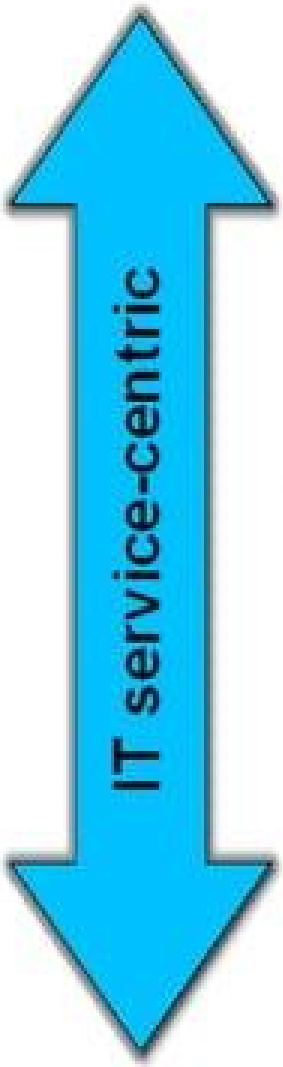
- Time required to test recovery plans
- Resources used for testing

The Move to the Cloud

From a Big Box to a Big Cloud



Defining Cloud Characterstics



Shared Infrastructure

Rapid Elasticity

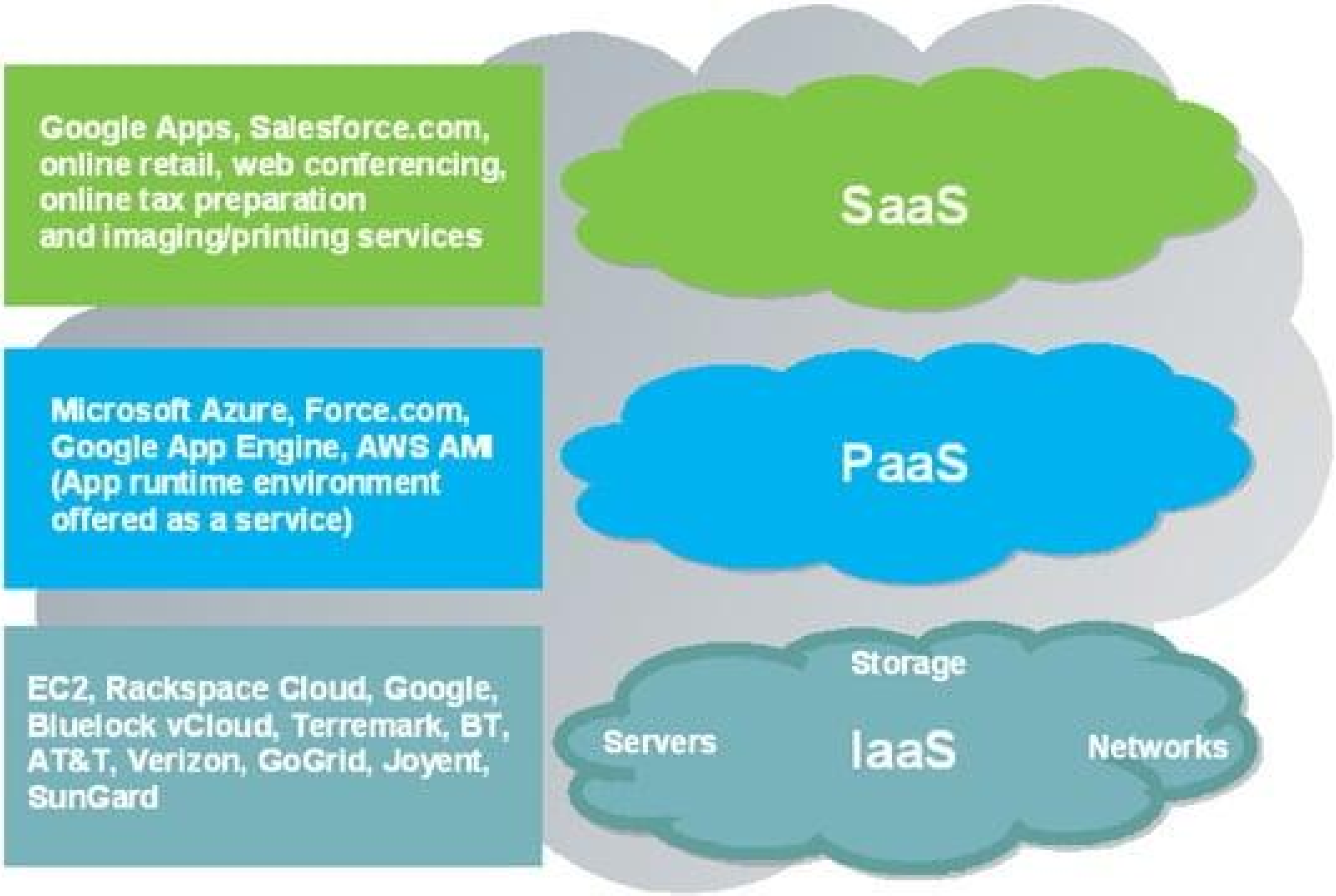
On-demand/Self Service Acquisition Model

Pay Per-Use Billing

Standard Internet Protocols

Measureable

The Cloud Stack

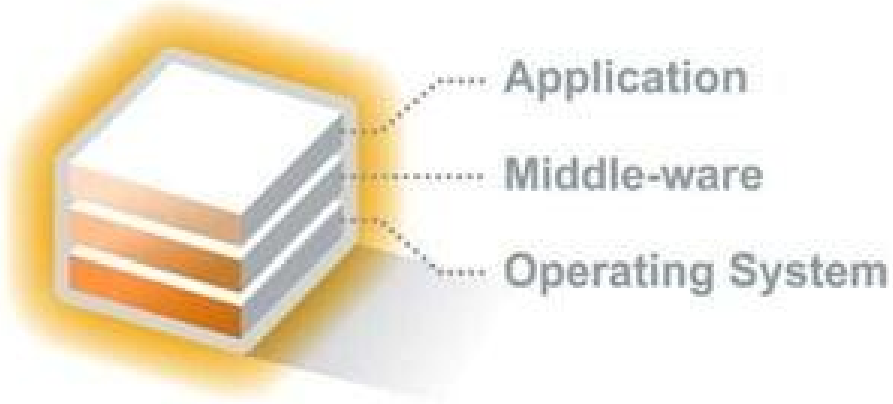


Your cloud, my cloud

- Public
  - ✓ Scalable and elastic computing services offered to external customers via the Internet.
  - ✓ Typically **multi-tenant, where multiple customers are able to share a single set of resources.**
- Private
  - ✓ Dynamic and scalable computer services offered to internal customers **using equipment the customer owns and delivered over a private network.**

DR and the Cloud

What is a Workload?



A workload is an integrated stack of application, middleware, and operating system that accomplishes a computing task

A workload is portable and platform agnostic– it can run in physical, virtual or cloud computing environments

A workload or a collection of workloads makes up a business service, which is what the end user consumes

Update your DR with Virtualization

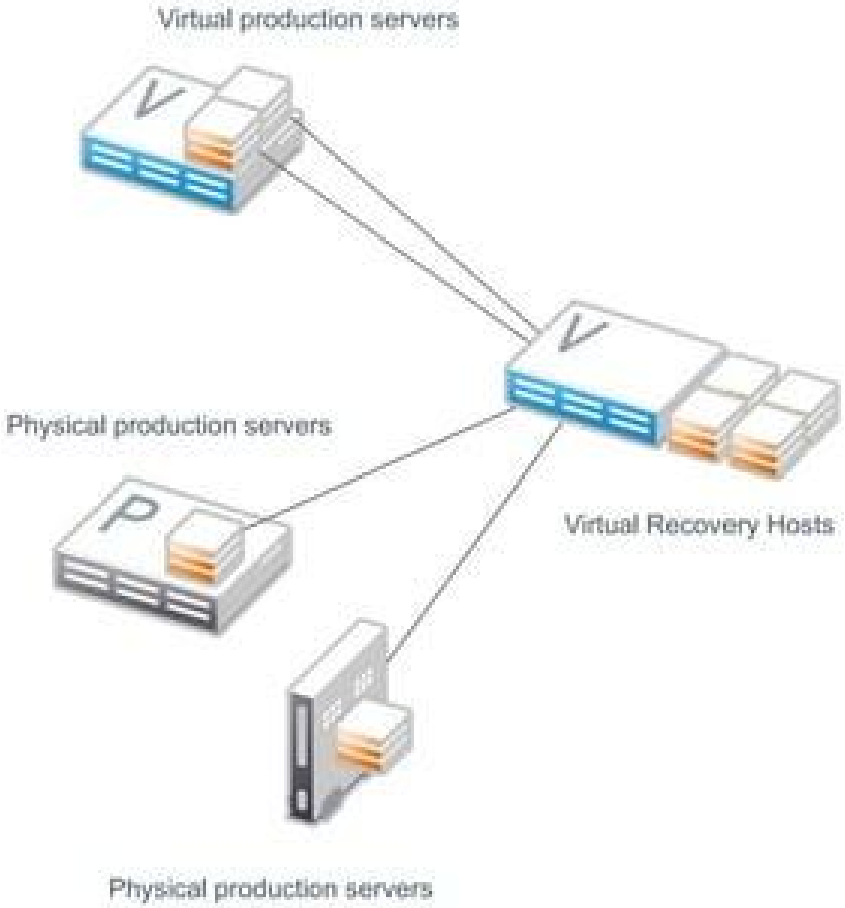
One virtual server host can protect several servers in production

Eliminate the Multi-Platform problem

Simplify testing as Virtual Machines can be isolated

Consolidated Recovery

Leveraging Virtual Infrastructure For Protection of All Your Servers



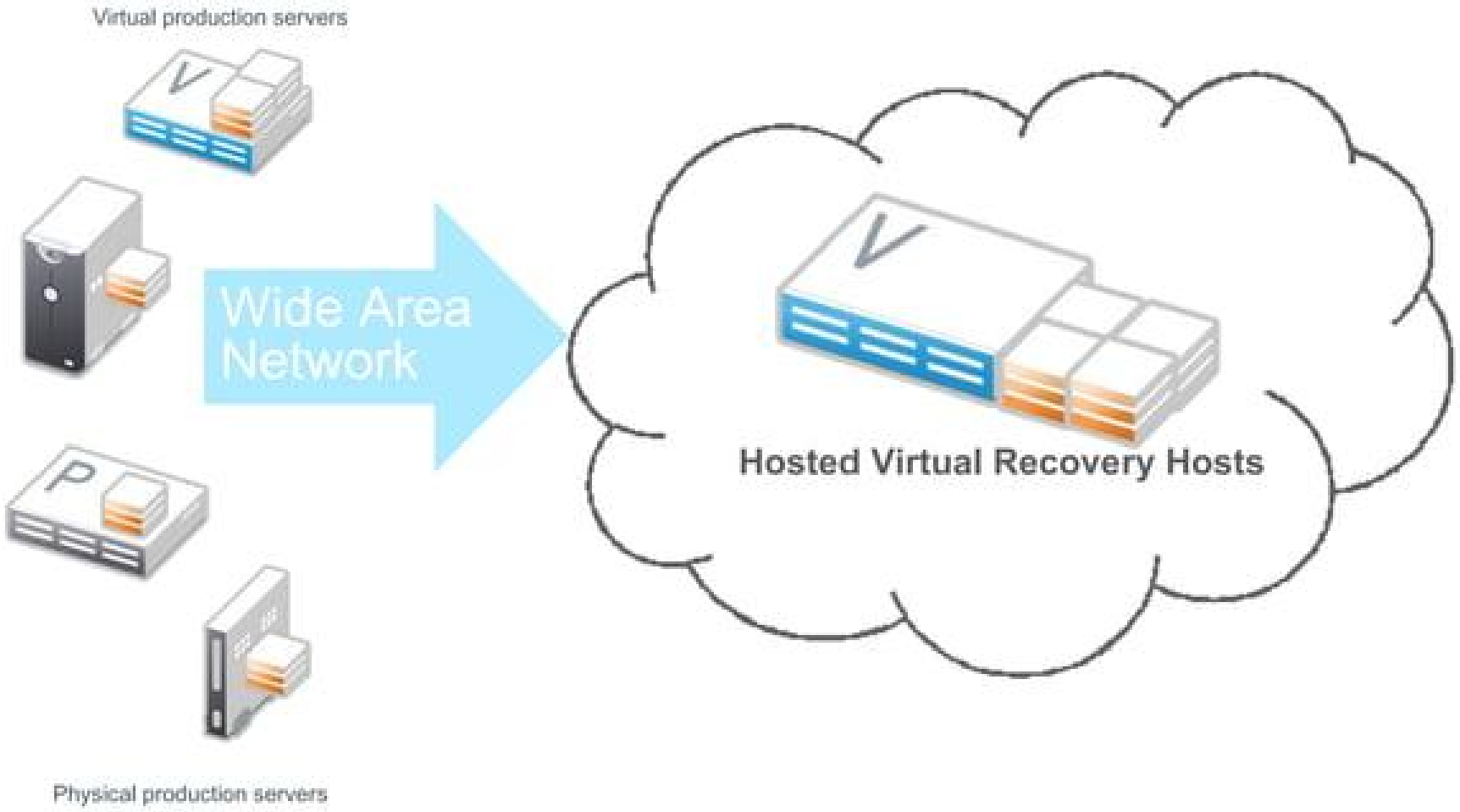
Solution

- **Replicate** workload into an off-line virtual machine
- One click **failover**
- One click **test restore**
- Flexible **failback**

Benefits

- Drastically reduce TCO and achieve whole workload protection
- Simplify testing with bootable backups
- Finally a way to complete your DR architecture

Protect to the Cloud



Products from Novell

PlateSpin Protect

Whole-workload protection for all server workloads.

Backup to virtual machines	Incremental replication	Easy to test	One-click failover

PlateSpin® Forge

World's first disaster recovery hardware appliance with embedded virtualization

Protects up to 25 workloads

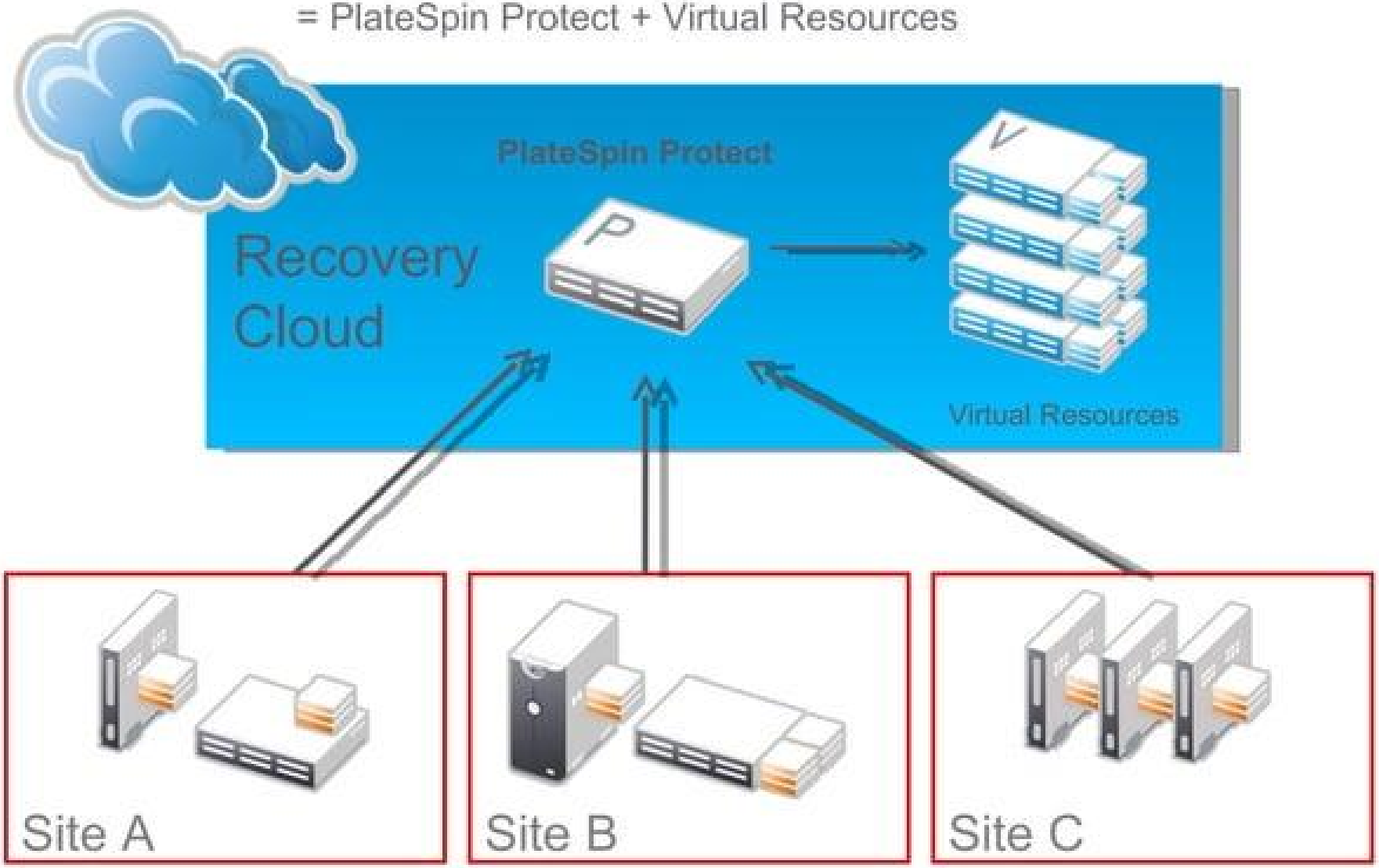
Plug In and Protect Solution for :
- Medium enterprises
- Branch or field use for large enterprises
- Hosted recovery

PlateSpin Forge Includes:
- Storage
- Replication software
- Hypervisor

Build a Protection Cloud

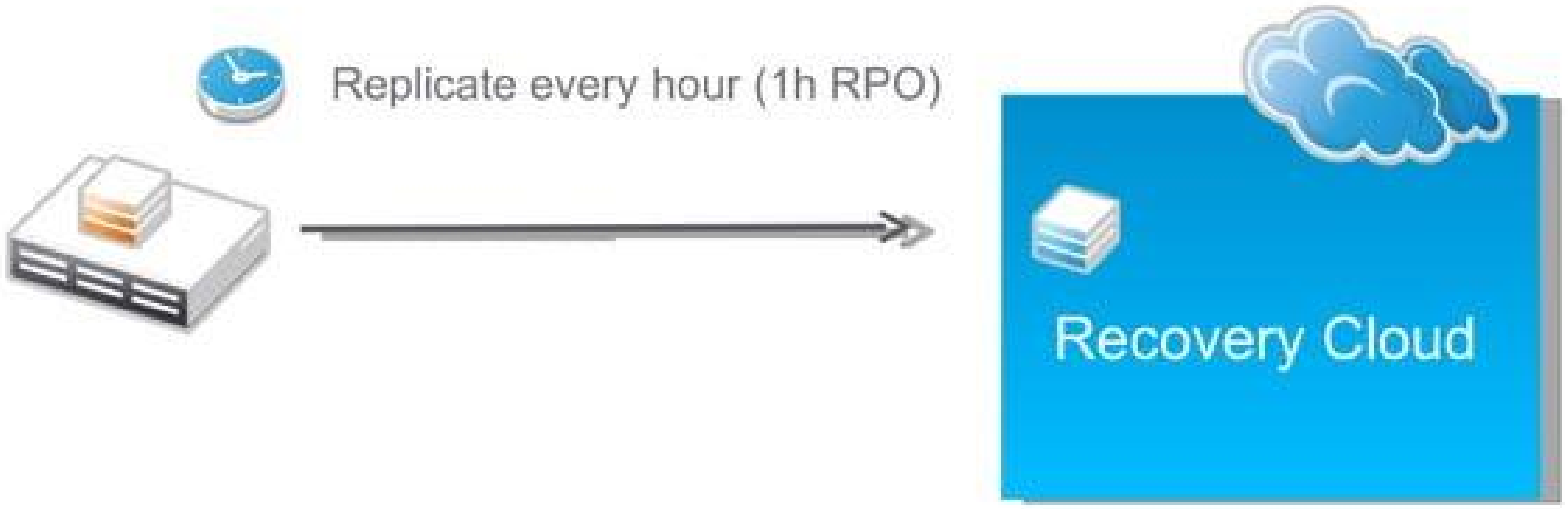
Build a Recovery Cloud

= PlateSpin Protect + Virtual Resources



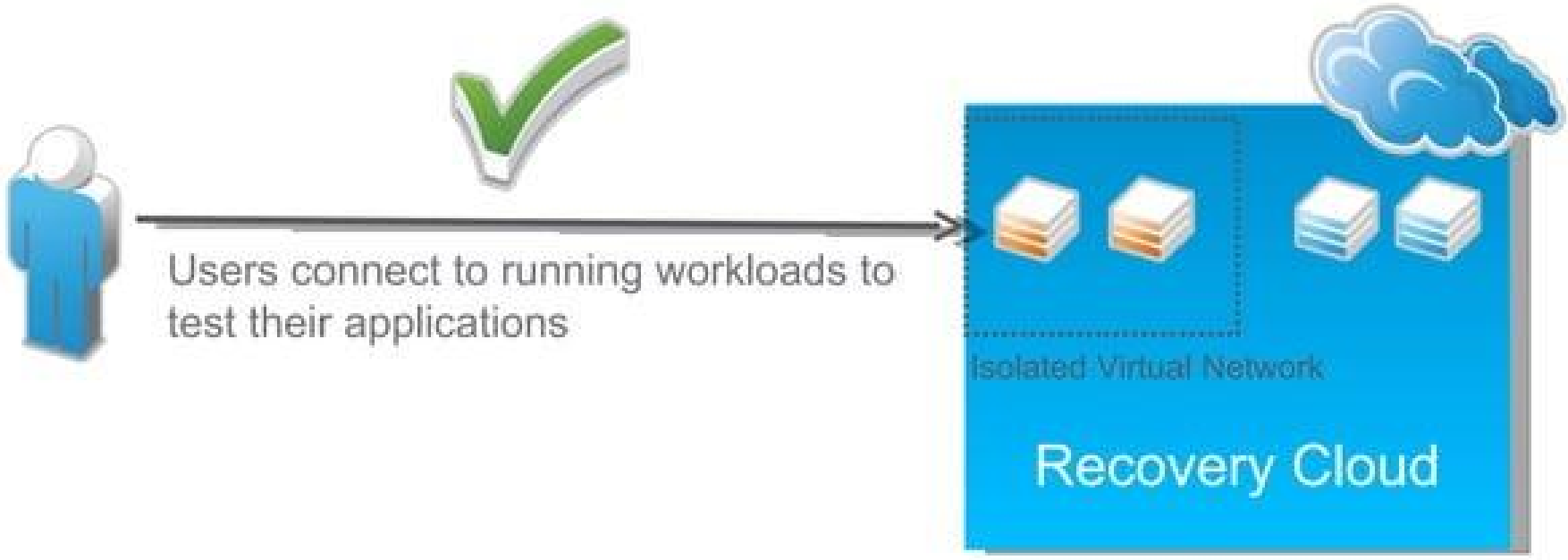
Setup Workload Replications

Scheduled replications: Workload changes are automatically replicated into virtual machines inside the Recovery Cloud



Easy Test Failover

Test Failover: recover workloads in isolated virtual networks to avoid production disruptions



Recover Workloads In Minutes

Offline Detection: PlateSpin Protect sends out notification when the protected workload goes offline

Failover: Workloads are recovered in minutes inside the Recovery Cloud

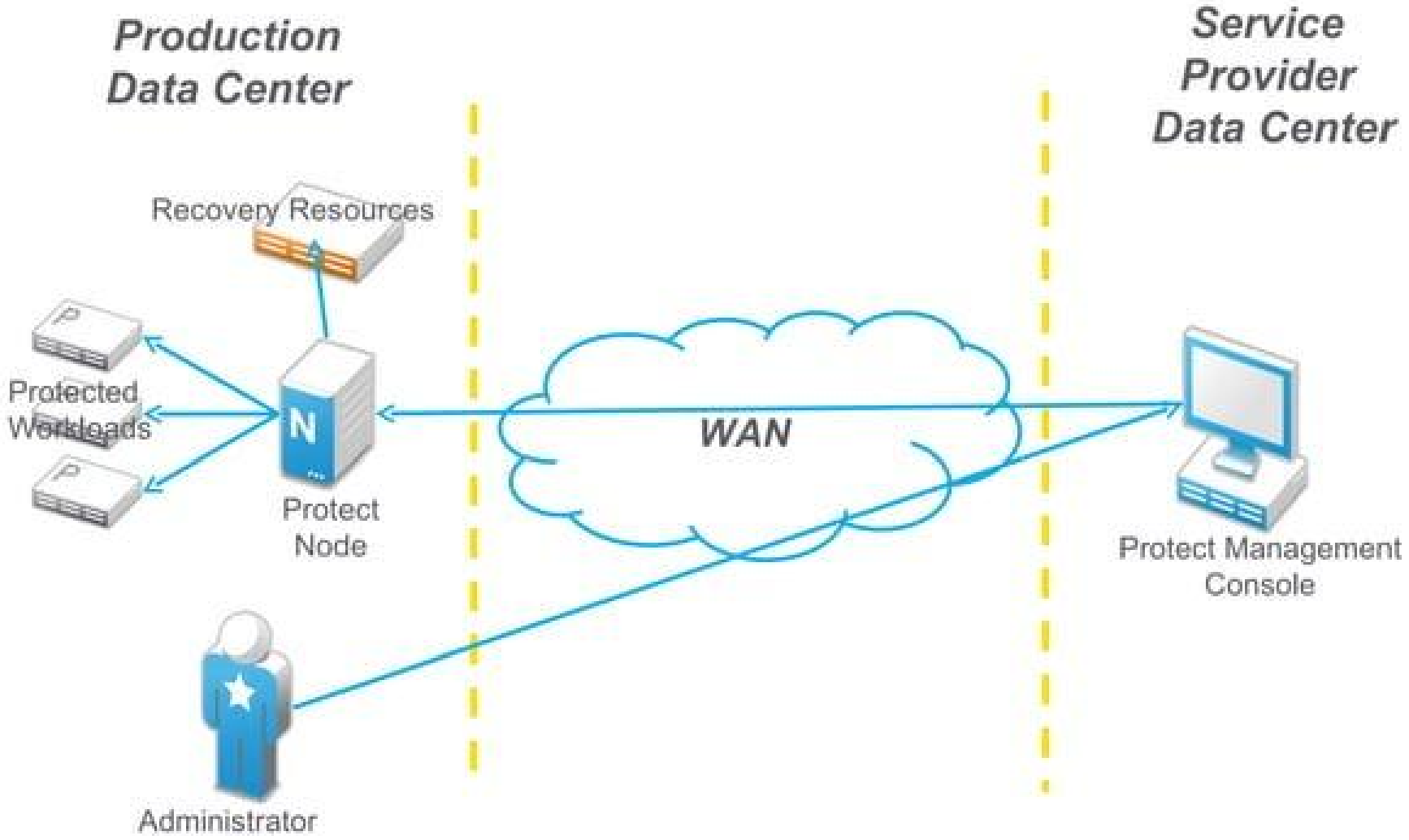
Users connect to workloads running in the Recovery Cloud

Restore the Production Environment

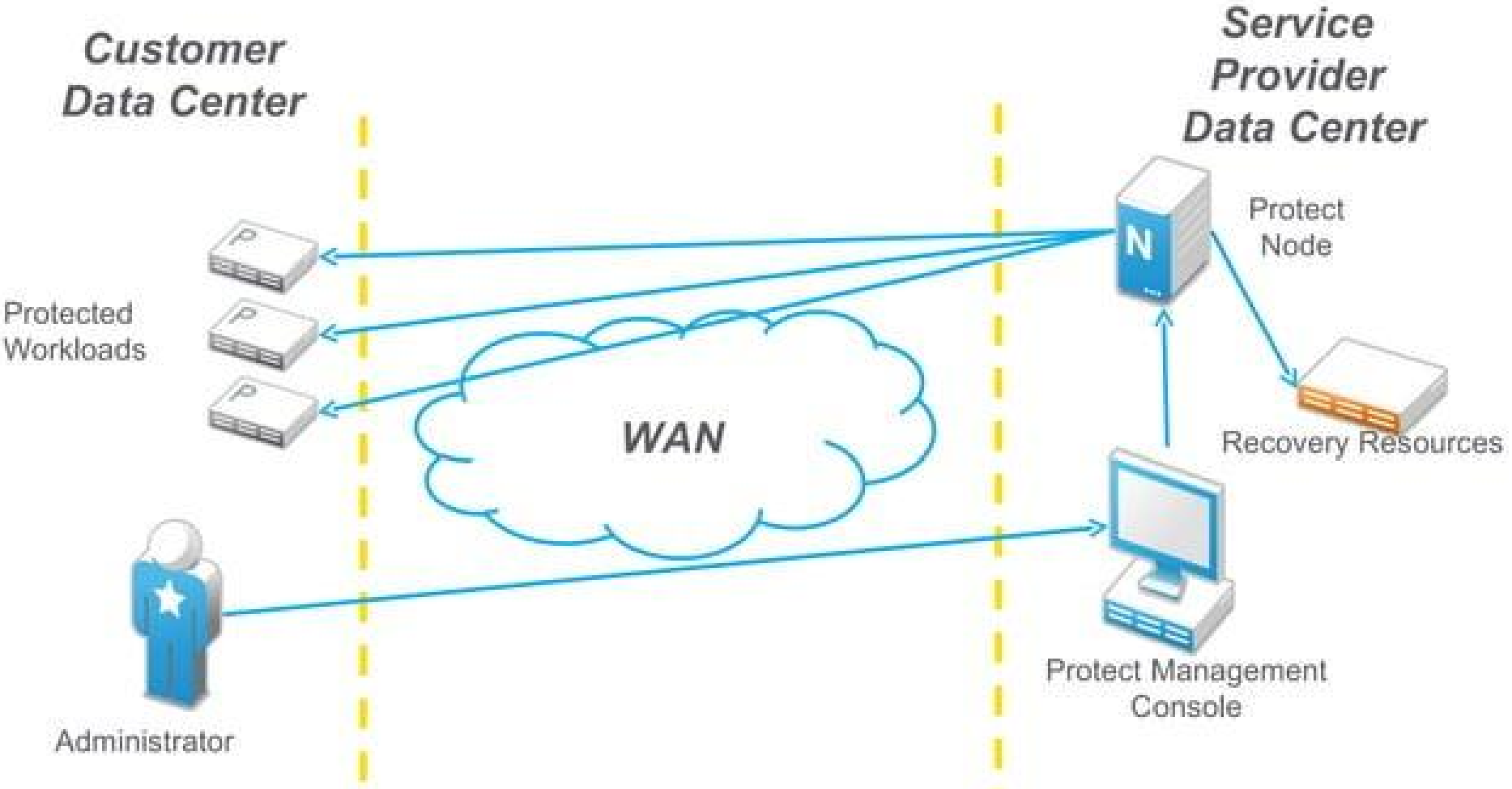
Failback: move the workload back into production to the same or a different host

Solution Flexibility

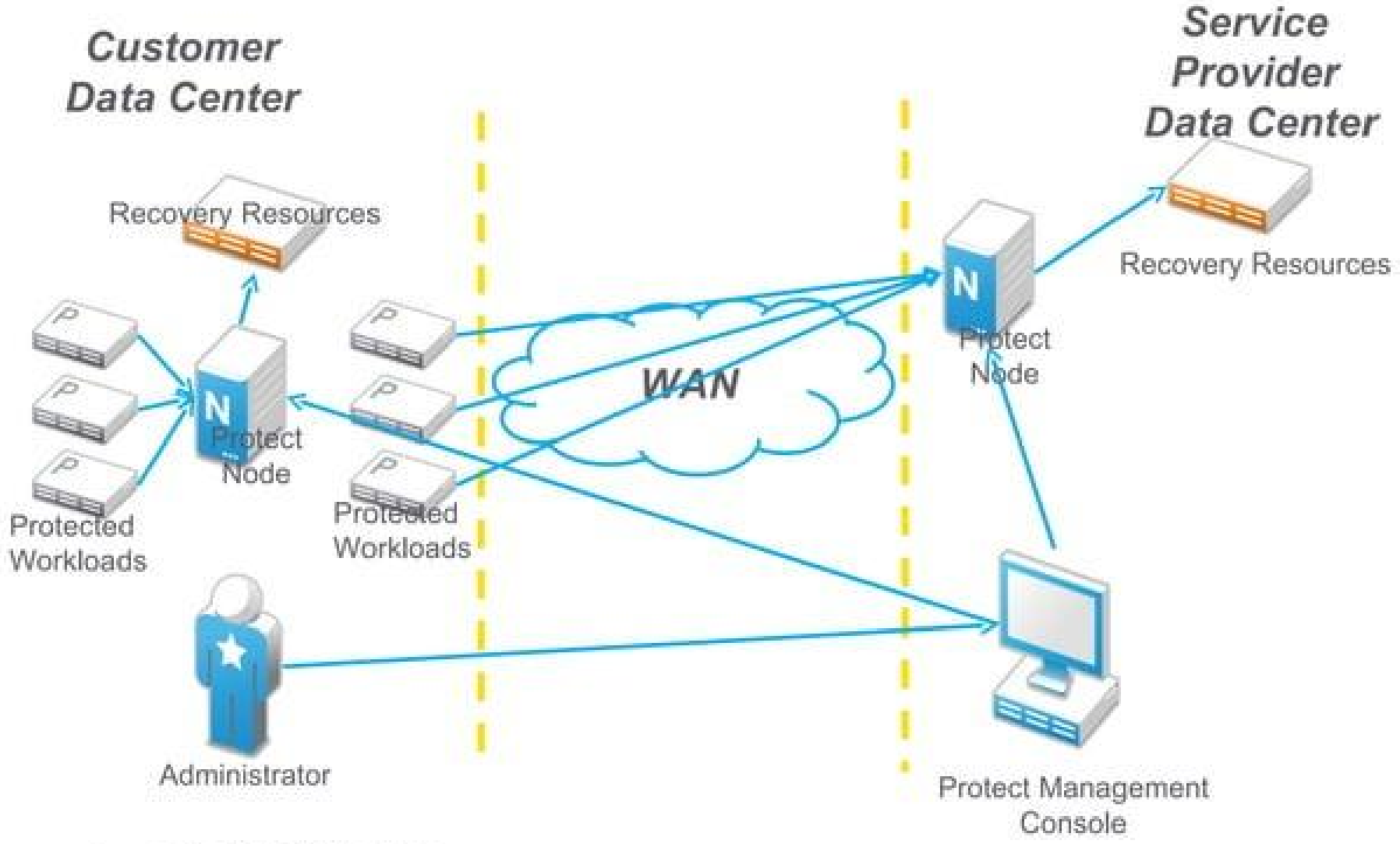
On-Premise



Virtual Private Cloud



Hybrid Model



What do Customers Have to Say?

Customer Results

Nichols College

www.novell.com/success/nichols_college.html

"Disaster recovery solutions can be very complex ... PlateSpin Forge is very straightforward. There's just one piece of hardware to manage. It's low maintenance, and has low overhead. Without it, we certainly would have spent more money on another disaster recovery solution that would have required more resources to support it."

ReedSmith

Reed Smith LLP

http://www.novell.com/success/reed_smith.html

"With PlateSpin Protect, we can recover multiple sites with the same set of hardware quite easily, in a matter of minutes."

Connect

Next Steps

Give it a Try!

- Download a 30 day trial copy of PlateSpin Protect

  download.novell.com/index.jsp

Learn More

- Contact Us – 800.529.3400
- Visit

  www.novell.com/products/forge/

  www.novell.com/products/protect/