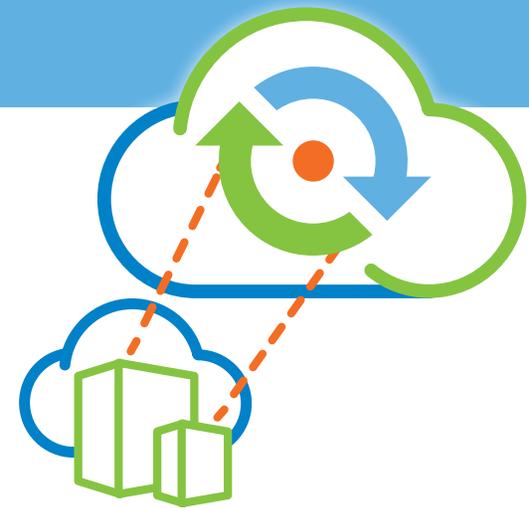# Recipes FOR Success

How to set up a Barracuda MSP hybrid local-cloud BCDR solution

Did you know that Barracuda MSP lets you restore application workloads **within minutes** after a failure—whether they're running on **physical servers** or on Microsoft Hyper-V or VMware vSphere **virtual machines** (VMs)? You do this by spinning up or replicating VMs on standby host servers.

Unlike other options on the market, these Intronis solutions require **no proprietary hardware**, which offers a number of benefits:

- High availability
- Great flexibility and margin potential
- The ability to use products you're familiar with

Just follow this step-by-step recipe to cook up your own **hybrid local-cloud solution**.

Key Ingredients:

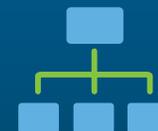A list of your customer's recovery requirements

1-2 storage systems (DAS, NAS, or SAN)

The Intronis cloud

2 servers, including your client's production server and a standby or recovery server

1 GbE LAN

Recipes *FOR* **Success**

Barracuda MSP

1. Review your customer's recovery requirements

Start by asking customers, "How much application downtime can your business tolerate?" Too much downtime can lead to lost revenue—or worse—but not all applications warrant a hybrid solution that can restore operations in minutes. Help customers find a balance and establish the right recovery time objectives (RTOs) for their applications.

Then take that **list of recovery requirements** and mix it with the Barracuda MSP ECHOplatform to develop a hybrid solution to suit the business' needs.

With the Intronis ECHOplatform's hybrid solutions, you have several options:

- For highly dynamic, mission-critical applications, you can keep recovery servers powered up as hot standby systems. You can also "piggyback" on existing VM capacity on servers already running in your customer's data center.

- For applications that are less mission-critical or less prone to change, you can wait until a failure occurs and then use a spare server to restore operations.

> "Too much downtime can lead to lost revenue—or worse—not all applications warrant a hybrid solution that can restore operations in minutes. Help customers find a balance."

2. Choose your storage

In hybrid solutions, local vault storage maintains and protects image-based backup. Intronis hybrid solutions support most storage options, including server-internal disks and **DAS, NAS, and SAN systems**.

Choose storage that suits your client's environment, anticipated data growth, or budget, and fits your business model. You can even private-label hardware with your brand.

Decide if you want one or two storage systems. You might want two if:

- Using a DAS system, which connects directly to your servers via Host Bus Adapters (HBAs), or

- Protecting vSphere VMs. Host-to-host replication technology makes a direct connection between the recovery server and backup data less important.

If applicable, connect your storage to the production server using a standard **Gigabit Ethernet LAN**.

NAS and SAN systems live on the same network as a **client's production server**. Put the **recovery server** on that network to maximize application availability, simplify management, and minimize restore time.

You can monitor and manage each business availability solution, and enable cloud-based protection, via the Internet. Protection based in **the Barracuda cloud** can complement local solutions by safeguarding against sitewide outages as well as local events like disk or server failures.
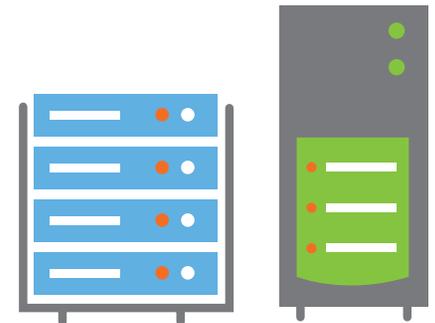
3. Choose your recovery server

Select a **recovery server** that supports the right environment:

- Microsoft Windows with Hyper-V if you're protecting an application on a physical server or Hyper-V VM

- VMware vSphere if you're protecting a vSphere environment
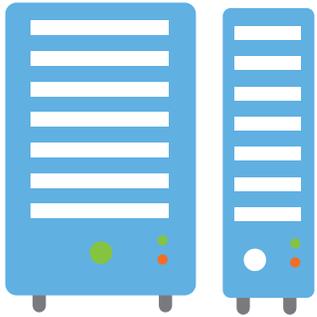
Refer to specs provided by Microsoft or VMware to make sure your recovery server supports Hyper-V or vSphere and will support the RTOs your client needs.

You can find a set of baseline server specs on the Barracuda MSP "Tech Specs" page. These requirements vary.

- If you ever need to restore an application on a physical server or Hyper-V VM, a solution we call "Rapid Recovery" lets you run the application on a Hyper-V VM on the recovery server.

- A similar solution we call "QuickSpin" creates replicas of vSphere VMs that you can push into production if a server or VM fails.

4. Test the solution

The only way to make sure you're in good shape to protect application uptime is by testing the hybrid local-cloud business availability solutions.

Refer to the Barracuda MSP Backup and Restore User Guide to create a test backup set with your **application data for testing** and Rapid Recovery for Imaging, Rapid Recovery for Hyper-V, or QuickSpin for VMware.

Then, restore the data into a sandboxed test environment. This allows you and your client to conduct tests at any time without interrupting or degrading production applications.
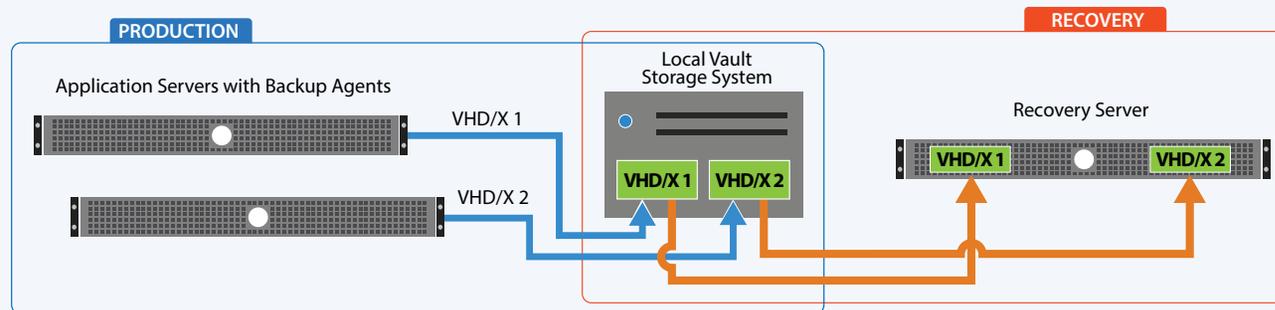
*Visit **www.barracudamsp.com** to learn more about protecting physical server, VMware, and Hyper-V environments*
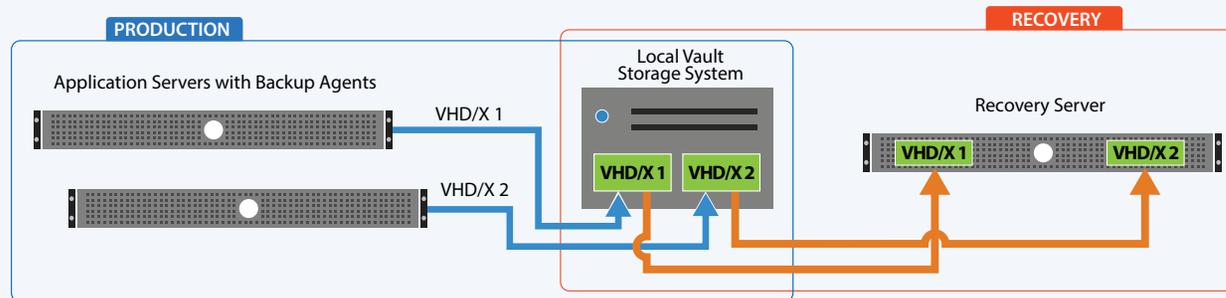
MSP
Barracuda

Hybrid Business Availability Solutions

These hybrid business availability solutions are recommended for applications with Recovery Time Objectives within minutes. Rapid Recovery for Imaging and Hyper-V Rapid Recovery use Microsoft Hyper-V virtual machines (VMs) to run applications connected to image-based backup data in the event of server failure. VMware QuickSpin replicates source VMs on recovery servers as standby VMs, ready to spin up if primary server fails.

Rapid Recovery for Imaging

PRODUCTION

RECOVERY

Application Servers with Backup Agents

Local Vault Storage System

Recovery Server

VHD/X 1

VHD/X 2

VHD/X 1 VHD/X 2

VHD/X 1 VHD/X 2

Hyper-V Rapid Recovery

PRODUCTION

RECOVERY

Application Servers with Backup Agents

Local Vault Storage System

Recovery Server

VHD/X 1

VHD/X 2

VHD/X 1 VHD/X 2

VHD/X 1 VHD/X 2

VMware QuickSpin

PRODUCTION

RECOVERY

Backup Agent

VM1 VM2

VMFS

VM Data

VMFS

VM1 VM2

Application Servers with Backup Agents

Local Vault Storage System

Recovery Server