Veritas Resiliency Platform

MULTI-CLOUD DATA PROTECTION

Applications are growing at double-digit rates, creating the need for cost-efficient deployment of workloads across different platforms and service providers. In response, organizations are using multi-cloud business models to improve service levels, improve recovery objectives and lower costs.

Although multi-cloud business models deliver significant advantages, they have also sharpened the need for new data protection models. Today's organizations require models that increase simplicity and reduce the fragmentation created by the use of multiple management tools. They need models that allow them to continue to innovate while maintaining the stability of existing solutions.

In today's always-on world where organizations may be negatively impacted by ransomware, cyber-attacks, IT disruptions, natural disasters and more, a confident, modern, unified approach to data protection is required across the entire digital business landscape.

Veritas™ believes that business resilience needs to:

- **Reduce** human error and manual processes with automation and orchestration.
- **Protect** all your application workloads, regardless of their location.
- **Increase** productivity with a unified management console.
- **Identify** risk quickly—both for today and in the future.

CHOOSE RESILIENCE DESIGNED FOR THE ENTERPRISE

Veritas Resiliency Platform is designed to increase organizational effectiveness and agility by transforming your operating strategy from disaster recovery (DR) to automated business resilience. It is the only multi-cloud platform that recovers applications across different hypervisors, operating systems, storage arrays and cloud providers. It eliminates the need to purchase multiple solutions by supporting any workload on physical and virtual infrastructure, providing single-click resilience across all applications. Plus, it removes the fear of the unknown, freeing your organization to innovate with confidence.

LEVERAGE VIRTUAL BUSINESS SERVICES

When an unplanned event occurs, you need to get your business online as quickly as possible. With virtual business services, your teams can create more sophisticated recovery procedures that recover multi-tier applications with a single click. By establishing service tiers, automation and orchestration work together to recover your highest-priority applications first, ensuring your business is back to an operational state as quickly as possible.
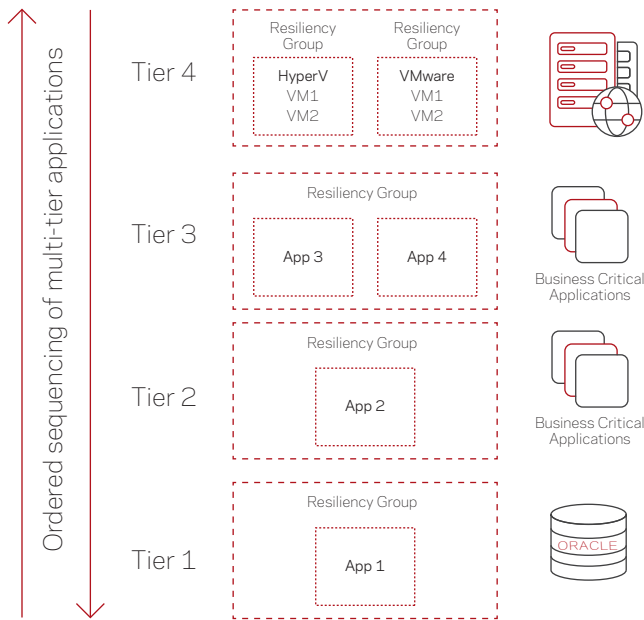
Figure 1. A sample virtual business service architecture organized into resiliency groups by Resiliency Platform.

Figure 1 shows a sample configuration of a virtual business service. In this example, our multi-tier application is composed of an Oracle database, multiple business applications residing on Linux and Windows operating systems and multiple web servers.

Resiliency Platform discovers these components as assets, making it easy to allocate them to different resiliency groups with assigned service tiers.

Our Oracle database needs to come online before anything else, so it is assigned Tier 1 status. You can also include any components that need to come online along with the database in this service group.

Next, our business applications are placed into resiliency groups and assigned service tiers. In our example, we have established that application 2 needs to come online before applications 3 and 4.

We follow the same process for our web servers. Because they reside on different operating systems, we place each web server into a separate resiliency group. Each service tier can accommodate multiple resiliency groups, allowing for recovery as a single entity. All that remains is to give this virtual business service an identifiable name such as mobile banking.

Single-click starting, stopping and migration of multi-tier applications significantly reduce complexity while returning your business to an operational state without human intervention.

EXPERIENCE AUTOMATED SIMULATIONS

Manual, biannual DR tests are costly, time-consuming and rarely deliver actionable results. Resiliency Platform's automated simulations move your organization past expensive DR testing to automated rehearsals. These simulations can be performed across your entire data center, individual applications or virtual machines without impacting service levels or production uptime. Best of all, once the simulation is complete, it cleans up automatically after itself, leaving no footprint behind.

ENSURE FAST TIME TO VALUE

Integration capability with your existing environment is an important consideration when choosing any solution. Why purchase a solution and then spend time creating fragile scripts or assign staff to manually integrate it into your current systems?

Resiliency Platform seamlessly integrates into the variety of storage solutions shown in Figure 2, protecting all your storage investments.

Figure 2. Resiliency Platform integrates with a wide range of enterprise storage solutions.
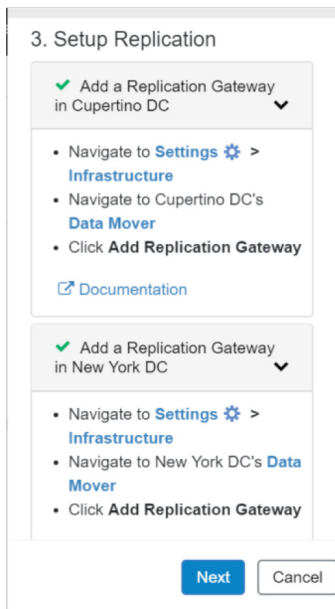
Figure 3. Guide Me wizards help guide configuration in Resiliency Platform.

Comprehensive APIs significantly decrease internal costs from manual data re-entry between tools that feed into or use resilience processes. Resiliency Platform also eliminates the need to create, maintain and support custom scripts that might break with each subsequent solution or product release.

Resiliency Platform's Guide Me wizards help reduce human error and complexity. They provide step-by-step guidance for the configuration and setup of resiliency groups and virtual business services (see Figure 3).

Seamless integration goes beyond storage and configuration, however. Resiliency Platform also integrates with your existing DNS servers to manage IP addresses and use existing security processes.

Built-in encryption optimizes the link between on-premises and target environments for an extra layer of protection.

Resiliency Platform is deployed as a virtual appliance on a single host per site. Each virtual appliance scales across multiple virtual machines and hosts per site.

INTEGRATE WITH VMWARE ECOSYSTEMS

Incorporation of Resiliency Platform into your VMware ecosystem ensures your business can experience the deep capabilities of VMware tools without compromising resiliency.

Resiliency Platform integrates with vSphere APIs for IO Filtering (VAIO) to intercept data from the source and replicate it to a secondary VMware site.

As shown in Figure 4, Resiliency Platform installs a virtual appliance into each VMware high availability cluster. The appliance, or data mover gateway, runs as a guest on any ESX server and supports multiple virtual machines, datastores and ESX hosts.

VAIO exposes vSphere APIs to third-party companies, allowing their functionality to become part of the VMware ecosystem. Resiliency Platform introduces VXTAP, which applies a policy to filter data being written to the source disk within a high availability cluster.

Figure 4. A sample architecture showing the integration of Veritas Resiliency Platform and VMware VAIO.

When applied, VXTAP intercepts data from the virtual machine and sends it to the gateway appliance located in the source environment. The gateway identifies the cluster and datastore being replicated and, working with the paired gateway in the target site, migrates them to the target site. Once these environments are fully synchronized and up-to-date, you can perform migration, rehearsals and takeovers as needed.

Integration between Resiliency Platform and Virtual SAN (vSAN) provides a smoother way to create virtual SANs without compromising business resilience. Resiliency Platform supports migration from private cloud to private cloud where vCloud Director is on the source and target environments. This ability is especially valuable for service providers establishing disaster recovery as a service (DRaaS) offerings. Resiliency Platform also supports takeover and failback from VMware to OpenStack as well as one-time migration of workloads located on physical servers to VMware.
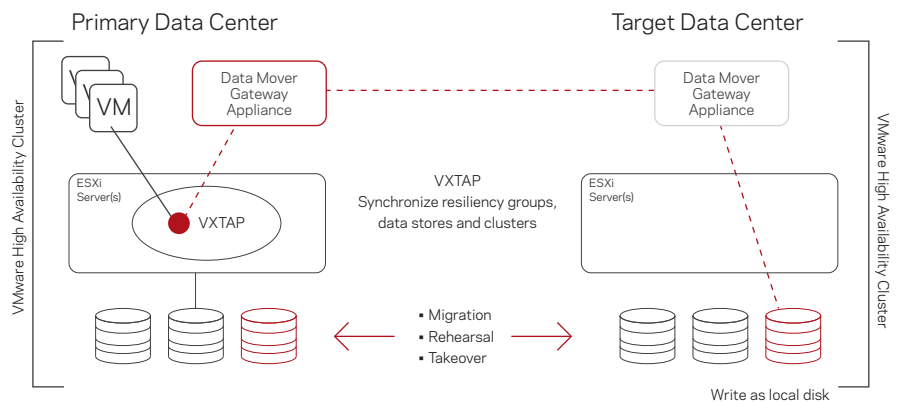
ENJOY CENTRALIZED MANAGEMENT AND INTEGRATED VISIBILITY

Resiliency Platform delivers simplicity and ease of use with a unified management console spanning on-premises and cloud environments. Centralized management has been proven to increase staff productivity and begin to break down silos within organizations.

You can tailor the view across global environments by application, virtual machine, resiliency group and business service. From the centralized console, you can:

- Create and manage resiliency components.
- Generate reports.
- Create and manage tasks using built-in task automation.
- Conduct rehearsals.
- Perform migration, takeover and evacuation processes.
- Use built-in reports to stay informed on inventory and resilience operations and identify risks.

MARKETPLACE AVAILABILITY

Quickly integrate public cloud into your multi-cloud strategy by going to the AWS and Azure Marketplaces. Express deployment is available to configure the key components you need to experience disaster recovery using public cloud as the recovery target.

TRY RESILIENCY PLATFORM NOW

Start a pilot today and experience the benefits of automated enterprise resilience. With express deployment, you can be up and running in less than 20 minutes. The customized deployment model is designed for customers needing to modify IP addresses and network interface cards.

ENSURE AUTOMATED ENTERPRISE RESILIENCE

Organizations need new models to simplify their recovery processes, reduce tool fragmentation and increase business resilience. Veritas Resiliency Platform is a single solution that protects any workload located on-premises or in the cloud. Its policy-based automation and orchestration gets your business back to an operational state by recovering your highest-priority applications first. Automated sequencing of shutdown and startup ensures data workload integrity, and non-disruptive rehearsals let you innovate with confidence.

Learn more by downloading Top Reasons to Choose Resiliency Platform.

ABOUT VERITAS TECHNOLOGIES LLC

Veritas Technologies empowers businesses of all sizes to discover the truth in information—their most important digital asset. Using the Veritas platform, customers can accelerate their digital transformation and solve pressing IT and business challenges including multi-cloud data management, data protection, storage optimization, compliance readiness and workload portability—with no cloud vendor lock-in. Eighty-six percent of Fortune 500 companies rely on Veritas today to reveal data insights that drive competitive advantage. Learn more at www.veritas.com or follow us on Twitter at @veritastechllc.

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