Broadview
NETWORKS®

Application Protection Continuity Engine
**No User Downtime. Period.**
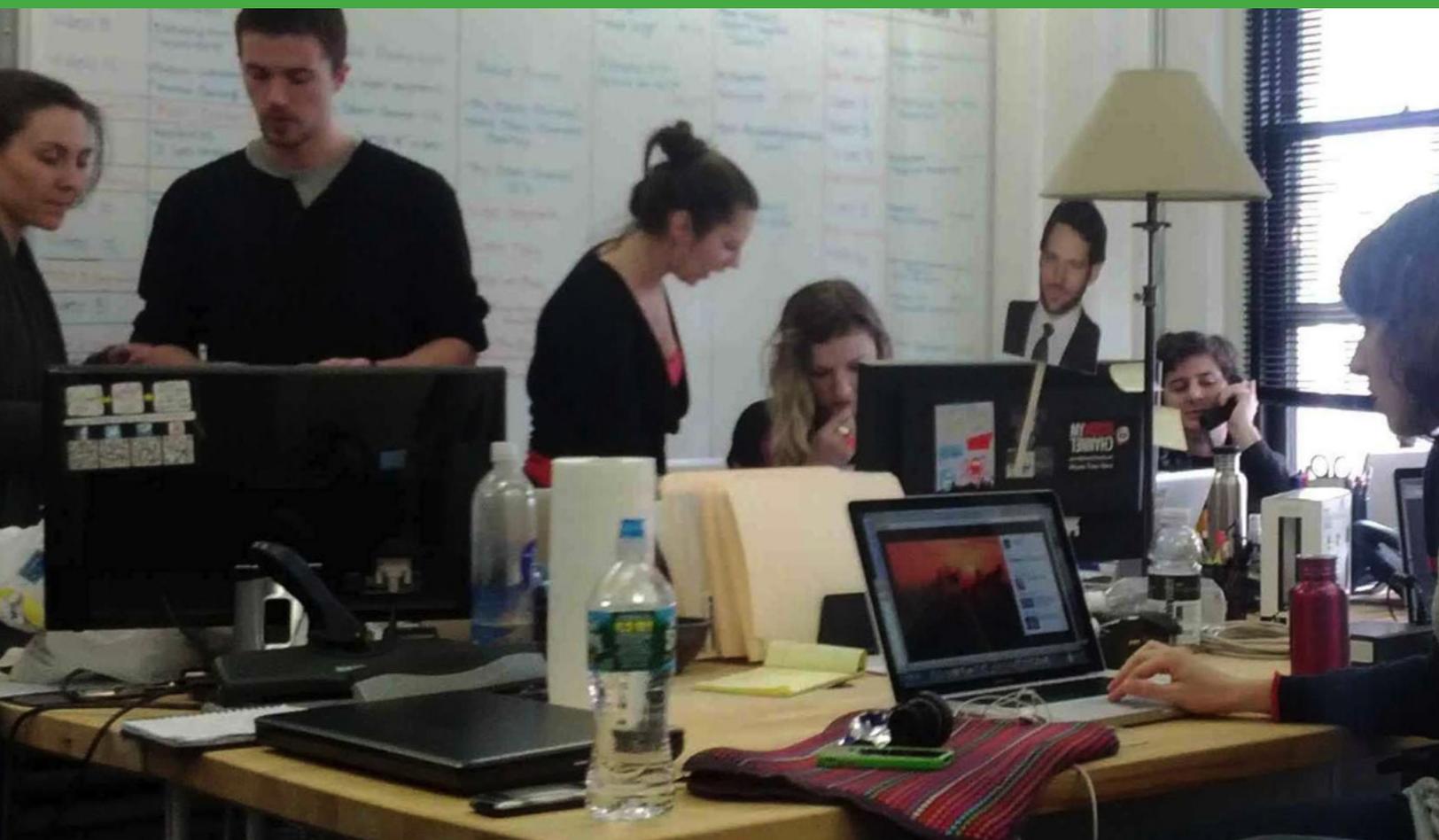
Challenges:

- Building or deploying a Disaster Recovery site is costly, time-consuming and requires on-going management.

- Server migration is complex and can cause downtime or even data loss

- Site-to-site or migration to the cloud puts additional demands on IT

- Migrations can't be easily undone if issues occur

Benefits:

- Scalable server, application or site migration in minutes at the push of a button

- Keeps dependencies in place to ensure a successful server and environment migration

- Replication between servers to ensures they share an identical persona and data set

- Enables full testing the new environment, with the ability to easily revert to the original server

Every business, large or small, relies on information technology to underpin its operations. Indeed, IT delivers your competitive edge and your business differentiation; and in today's Internet economy, customers and business partners use your systems around the clock. Just like internal users, they expect your IT service to be highly reliable, always there. They demand continuous availability.

Application Protection's Heartbeat Failover Engine was designed to keep users continuously connected to their critical applications in the face of any threat to system availability. It's the only continuous availability solution that focuses specifically on eliminating the potential impact of system downtime on end users and the applications that they depend on. In today's complex IT environments, companies need products that provide simple solutions to complicated problems. Applications no longer reside on a single server. Hardware redundancy doesn't protect against application faults. Datacenters run mixed physical and virtual servers together. Application Protection's Heartbeat Failover Engine maintains multiple synchronized instances of any Windows applications and monitors their health in real-time to identify and fix problems before they cause downtime. If disaster strikes, Application Protection Engine guarantees industry-leading rapid failover to keep businesses running.
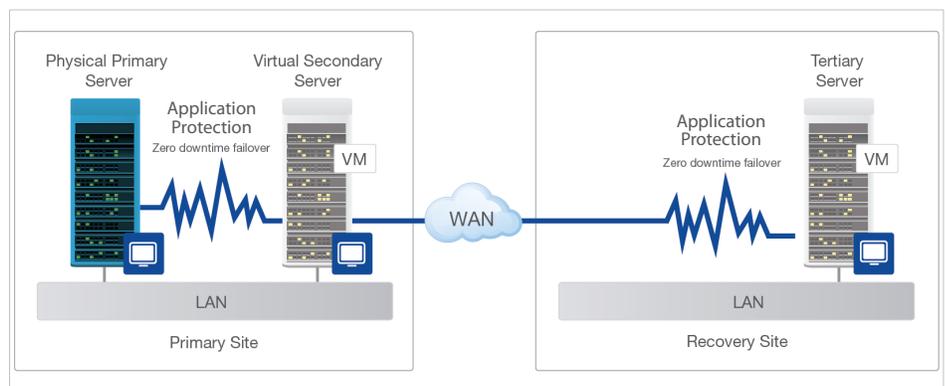
Heartbeat provides immediate, ongoing and significant benefits:

1. Keeps users connected to their critical applications. Heartbeat automatically monitors application health in real-time to identify and fix problems before they cause downtime.

2. Protects complete applications. Heartbeat manages availability for all components of complex, multi-tier applications with integrated support for major Microsoft applications.

3. Provides a single availability solution for physical and virtual platforms. Heartbeat simplifies DR management through a single solution that spans heterogeneous server environments, including third-party hosted Cloud environments.

4. Reduces bandwidth requirements for DR. Heartbeat cuts bandwidth needs by up to 80% with integrated WAN acceleration capability, making it easier to protect "big data" applications.

5. Leverages existing investments in VMware vSphere infrastructure. Heartbeat's integration with the vSphere management client, Site Recovery Manager and VMware HA extends the utility of these investments.

Heartbeat Features

Continuous Application Protection and Health Monitoring Heartbeat maintains multiple synchronized instances of any Windows applications and automatically monitors application health in real-time to identify and fix problems before they cause downtime. If a site-level disaster strikes, Heartbeat delivers industry-leading rapid site-to-site failover to keep businesses running.

Protects Multi-tier Applications Seamlessly

Heartbeat eliminates consistency issues that make complex, multi-tier applications difficult to recover by enabling any set of application components or services to be aggregated into a single failover unit. Out-of-the-box application intelligence automatically detects data sets, services and dependencies for popular Microsoft applications including SharePoint, SQL and Exchange, as well as other Windows applications. Best of all, it doesn't matter how application components are distributed across physical or virtual platforms because the Heartbeat Engine works consistently across all platforms.

WAN Acceleration

Heartbeat incorporates WAN acceleration technology with real-time data de-duplication that reduces replication volumes by up to 80 percent. This translates into decreased WAN bandwidth requirements, reduced costs and increased WAN capacity for additional applications.

VMware Integration

Heartbeat offers tight integration with a broad range of VMware technologies to protect and extend existing virtualization investments. The Heartbeat user interface includes a plug-in for the latest vSphere client so all management activities can be performed from within VMware vCenter Server. Heartbeat allows you to extend vCenter and VMware Site Recovery Manager (SRM) workflows to include physical servers. Finally, Heartbeat's real-time application monitoring system has been integrated with vSphere HA Clusters, so that virtual clusters become application-aware and can remediate application-level failures.

Integrated Continuous Availability

Heartbeat incorporates the full range of technologies required to deliver on the promise of continuous availability: real-time application monitoring, run-time system remediation with failover/failback automation, data replication, cross-platform support and WAN acceleration. Many organizations attempt to piece together continuous availability infrastructures by integrating point solutions. Application Protection has pre-integrated all these technologies in a single, capable product so you don't have to!

Summary

From single servers to complex applications and complete datacenter installations, Application Protection Heartbeat Failover Engine is the only business continuity software focused on eliminating the risk of downtime before it can impact an enterprise or the business-critical applications end-users depend on.