

everRun® for BlackBerry Enterprise Server

PROTECTING ALL COMPONENTS OF BLACKBERRY MOBILE EMAIL

Mobile email services are becoming a critical function for businesses of all sizes. Traveling and mobile workers, including company executives, rely on email to stay connected and productive while away from the office.

The BlackBerry mobile email back-end for Microsoft Exchange includes three major components: the BlackBerry Enterprise Server (BES), the Microsoft SQL Server database used by BES, and the Microsoft Exchange Server. To ensure 24x7 BlackBerry availability, all three of these components must be protected from unplanned system downtime. Each component must be protected from planned downtime resulting from reconfiguration, hardware upgrades, hot fixes and service packs. They must be protected from data loss or corruption, and site failures or disasters. Clustering or data replication technologies, combined with failover capabilities, are often used to protect BES. However, these solutions don't address all three components, and they often require BES administrators to create special failover scripts.

COMPLETE BLACKBERRY PROTECTION WITH everRun

Marathon's everRun® software provides complete high availability and disaster recovery for all components of your BES back-end: BlackBerry Enterprise Server (BES), Microsoft SQL Server database used by BES, and Microsoft Exchange Server, as well as additional infrastructure components including Active Directory, DNS, DHCP and Global Catalog servers.

everRun software offers a unique set of features and benefits that make everRun a great choice for protecting BES and Exchange:

- Higher levels of availability than competing failover solutions
- Selectable fault-tolerance using a range of everRun products along with the "availability dial" of everRun VM
- Simple to install and manage with no need for specialized staff experience or training
- Solutions for both virtual and physical environments
- Solutions for local, near-distance and long-distance availability and data protection
- Choice of either locally-attached or networked storage
- Built-in failover policy eliminates complex policy definition and the potential for policy errors
- Sophisticated error detection is faster and more reliable than simple heartbeats
- Cost effective for a wide range of BlackBerry environments
- Protection for all three major BlackBerry/Exchange components with a single solution

everRun VM. Basic failover, component-level fault tolerance and system-level fault tolerance (Q1 2009) for BlackBerry/Exchange and coupled applications running in virtualized environments.

everRun FT and everRun HA. System-level (FT) and component-level fault tolerance (HA) for BlackBerry/Exchange running in physical environments.

everRun SplitSite. Extends everRun VM, FT and HA protection to separate data centers for site-wide protection.

everRun DR and everRun CDP. Disaster recovery and continuous data protection that extends the protection offered by the everRun availability products.

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everRun BLACKBERRY HIGH AVAILABILITY PROTECTION

Diagram 1 shows the three major BlackBerry components running as separate virtual machines protected by everRun VM. The virtual machines for BlackBerry Server, SQL Server and Exchange Server are balanced across three servers to evenly spread the processing load.

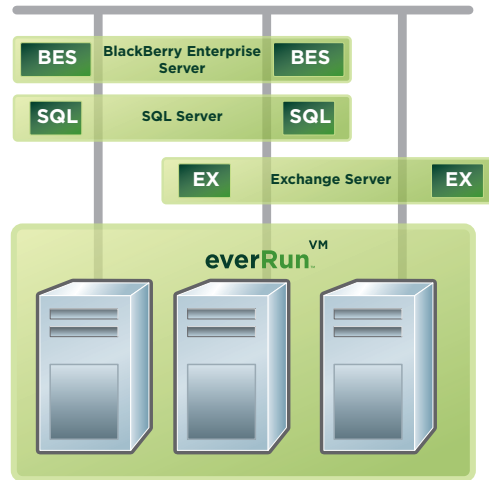


DIAGRAM 1

everRun BLACKBERRY DISASTER RECOVERY PROTECTION

Diagram 2 shows a BlackBerry/Exchange configuration in a disaster recovery scenario using everRun DR across two extended distance sites. everRun VM is used for local protection as well as a way to use virtualization benefits to simplify management and reduce cost of the disaster recovery solution. At the production site, the BlackBerry Server, SQL Server and Exchange Server are running as individual virtual machines across a pool of three servers. At the disaster site, the same virtual machines are configured to run on only two servers, illustrating that the primary and disaster site configurations can be different. This allows companies to save cost by optimizing the disaster site configurations to the specific needs of disaster recovery operation. Data is replicated across the two sites in real time using everRun DR. Failover is also managed by everRun DR.

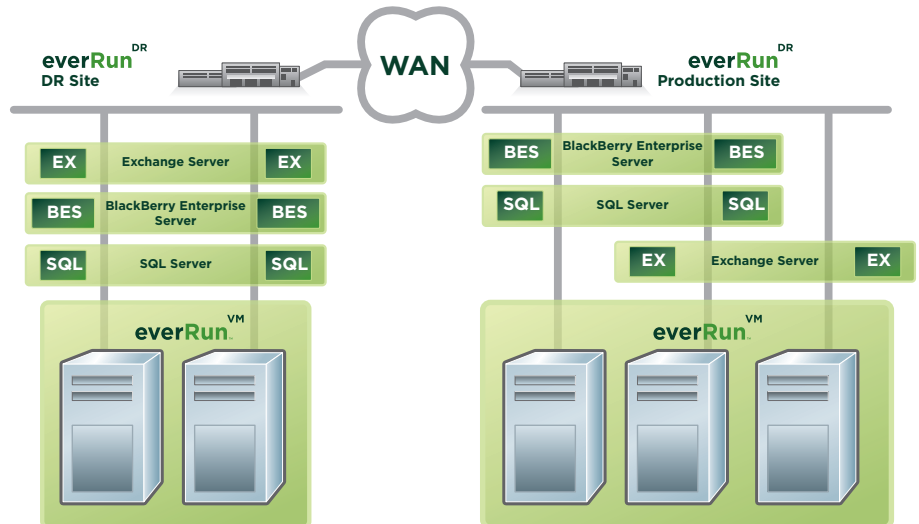


DIAGRAM 2

MARATHON

Run to Infinity

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