Marathon FTvirtual Server™

Fast recovery from application downtime is good. Never failing in the first place is even better. That's what makes Marathon FTvirtual Server™ software unique. Marathon goes beyond replication and recovery to deliver *continuous* operation of unmodified Windows applications through faults, failures and disasters.

This simple, affordable software delivers the industry's highest levels of availability for any Windows application running on industry-standard Intel servers by detecting, isolating, and computing continuously through the most common sources of downtime.

Zero Downtime

With no downtime to recover from and no failover to script, manage, and test, Marathon software frees your valuable IT resources for more important projects. Best of all, your end-users can keep working without interruption or data loss.

Virtual Application Environment

Marathon uses the redundancy provided by two standard Intel-based servers or blades to create a true, fault tolerant environment that protects your Windows applications, data, and OS.

Two servers are connected with gigabit Ethernet and Marathon software is loaded on each. The Marathon software synchronizes the two servers into lockstep operation and creates a virtual application environment that runs on both servers simultaneously. If either server in the connected pair fails, the application environment continues to function uninterrupted using the processing power of the other. There is no failover, so there is no downtime.

Simple Administration

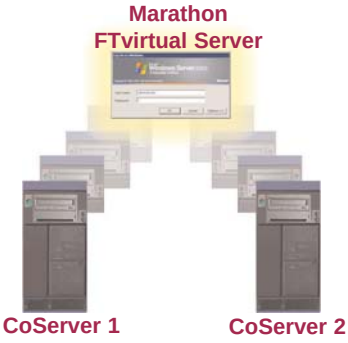
Marathon fault and disaster-tolerant configurations are as easy to manage as a single standard Windows server. The Marathon management interface provides comprehensive status information on the application environment, network connections, and devices.

SplitSite® for Disaster Tolerance

Marathon's unique SplitSite® capability allows you to physically separate the two redundant CoServers that comprise a Marathon configuration by up to 100 miles (161 kilometers), connecting them through a standard TCP/IP switched network. If one CoServer is destroyed, the application will continue to operate without pause or data loss. Marathon's advanced software protects the application and data even in the event of simultaneous loss of all network connectivity between the CoServers.

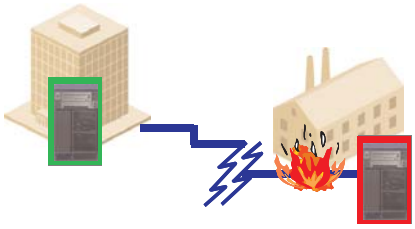
Benefits of Marathon FTvirtual Server software include:

- *Reduced IT complexity.* No cluster failover to manage and test. No scripting or specialized knowledge needed.



- *Highest availability at lowest total cost.* You get continuous application and data access through failures with no loss of state or application context using cost-effective industry standard Intel servers/blades and Marathon's simple, affordable software.
- *Increased productivity and decreased cost of downtime* by eliminating unplanned downtime, in-flight data transactions are preserved through failures.
- *Any Windows applications* - no need for "cluster aware" applications

SplitSite Option for Disaster Tolerance



Minimum Hardware Requirements

- 2 Identically configured, Marathon-tested, Intel-based servers each containing:
  - Pentium 4 Xeon processors (dual processors or single processors with HT technology)
  - 512 MB RAM (768 MB recommended)
  - 2 Network ports *required* (Mbs): 1- 1000 plus 1- 10/100; 4 network ports *recommended* (Mbs): 2- 1000 plus 2- 10/100 or 100)
  - 1 IDE/SCSI controller or RAID controller
  - 1 CD-ROM (IDE or SCSI)
- 2 Crossover network cables (for CoServer links)
- 2 Straight-through network cables (for client and management networks)

Operating System Requirements

Microsoft® Windows 2000 (Server or Advanced Server) or Microsoft® Windows® Server 2003 (Standard or Enterprise Edition)

Supported Technology

Storage Support:	IDE, SCSI, iSCSI, and Fibre Channel (SAN)
Networking Support:	Fast and Gigabit Ethernet
Redirected Video Support:	Color Palette: 256 Colors Resolutions: 640 x 480, 800 x 600, 1024 x 768
Marathon Manager:	Windows 2000, XP Professional
Application Support:	Microsoft Windows Applications

SplitSite Minimum Requirements

- Marathon FTvirtual Server 6.1 software
- 2 CoServers on same subnet or vLAN
- *Network connectivity to quorum server
- 2 CoServer links via dedicated or routed IP connections
  - Bandwidth: OC1 (51 Mb/sec); recommended: OC3 (155 Mb/sec) per link (appl. dependent)
  - Maximum latency: 2 msec or better
- Quorum server requirements
  - Local or remote Windows servers equipped with Marathon quorum service software
  - A single quorum service can support multiple SplitSite CoServer pairs
  - Multiple quorum servers can be deployed for redundancy

**For automatic quorum server discovery, CoServers and quorum server should be on same subnet or VLAN. Manual IP address configuration is available for separate subnets.*

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