BlueArc Network Storage Servers

BlueArc Secure Virtual Servers

BlueArc Virtual Servers Optimize Utilization and Data Security.

BlueArc offers companies a better way to consolidate and securely organize information assets through the use of server virtualization technology. Virtual Servers allow better organization and secure control of data accessibility when assets reside on a single shared physical resource like a a BlueArc server or server cluster. This approach is critical to consolidating resources to improve storage utilization, as well as optimizing hardware and administrative costs. Companies can distribute and provide access to information assets according to business needs and organizational requirements so that different users can be isolated safely, while still leveraging a common shared storage infrastructure.

A Virtual Server is a logical representation of a physical server which can be managed independently with separate security authentication and policies. A BlueArc server or server cluster can support a maximum of 64 Virtual Servers. Each Virtual Server has an independent set of IP addresses, mount points and file systems. For additional security, an optional software upgrade allows for Secure Virtual Servers. This feature enables each Virtual Server to have separate security domain authentication allowing assignment of Domain Controllers on a one to one basis with each Virtual Server. This also allows both public and private or multiple separate networks to coexist on the same BlueArc Server.

Virtual Servers can be automatically or manually migrated between individual physical servers as necessary. This capability is vital for high availability because it automatically transitions Virtual Servers from a failed node to any remaining operational nodes in the cluster if unplanned disruptions occur. This auto-migration capability is designed to minimize application disruption and customer downtime, while simultaneously ensuring no loss of data. Virtual Server migration is a standard feature of all BlueArc clusters and is available as an optional software upgrade when server migration is desired for multiple BlueArc servers sharing a common SAN, but are not clustered.

Virtual Servers in Action: Focusing the Data Processing Power Where You Need It.

With Virtual Servers, rendering, computational or production projects that require additional time, speed and storage resources can now be moved to a dedicated or less busy server supporting the common storage pool. When processing is completed, they can be instantly moved back to their initial configuration.

Similarly, if a BlueArc server needs maintenance work, Virtual Servers on the physical device can be quickly moved to another BlueArc server with no disruption in service, and then moved back when the original server becomes available.

By breaking the tie between the physical servers and their associated storage, Virtual Servers allows administrators to consolidate and share resources better by avoiding bottlenecks and improve processing power by using the power of multiple Titans or Mercurys.

Administrators can add up to eight BlueArc servers to a cluster, with each server or cluster capable of hosting up to 64 Virtual Servers at a time. Virtual Servers can also be manually moved between clustered and non-clustered BlueArc servers. Individual server clusters can be configured to support automatic failover of a total of 64 Virtual Servers within a high availability cluster in the event a physical node goes down.

For today's on-demand, rapid-response IT environments, Virtual Servers ensures a new level of quality on demand not previously attainable in network storage environments.

HIGHLIGHTS

- **Up to 64 virtual servers per server or server cluster**
- **Separate IP addresses and policies for better data management and security**
- **Cluster Namespace support for assigning virtual servers to file systems**
- **Virtual servers can easily be migrated between servers to optimize access and performance**
- **Clustering support with automatic failover and recovery**
- **Secure virtual servers introduces multiple domain and private network isolation to enhance and secure data access**

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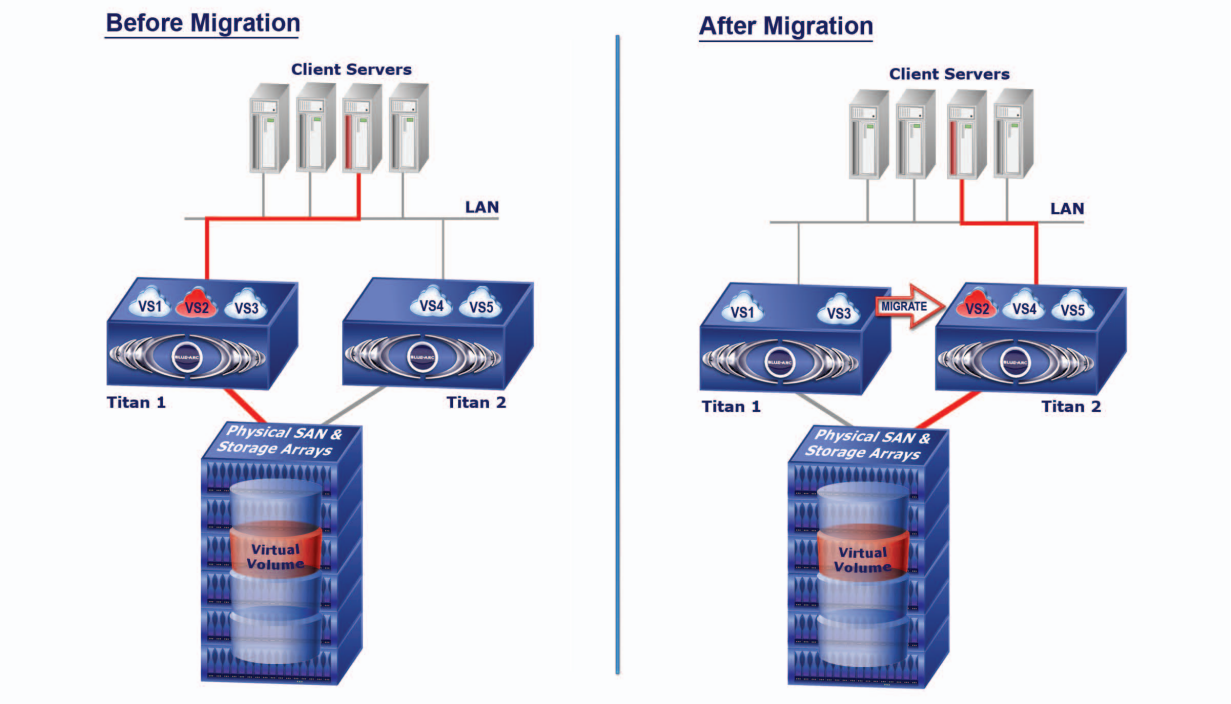

Virtual Servers Solution

FEATURE	SPECIFICATION
Maximum number of Virtual Servers	64 per BlueArc Server or Server Cluster
Supported BlueArc Servers	BlueArc Titan, BlueArc Mercury
Individual Virtual Server Identity	Separate IP address and policies
Cluster Namespace Support	Yes
Individual Bandwidth Allocation	Ethernet port or trunk group binding
Virtual Server Support	Standard Feature
Secure Virtual Servers	Optional Feature for Multi-Domain Support
Virtual Server Migration	Optional Feature (Standard Feature with Cluster License)
Cluster Support	Yes (Includes Migration Option)
Integrated Management, Monitoring and Configuration	Yes (Standard User Interface and CLI)
Licensed Features (Virtual Servers, Virtual Server Migration, Secure Virtual Servers)	Virtual Servers (Standard Feature) Virtual Server Migration • Non-Clustered (Optional Feature) • Clustered (Included) Secure Virtual Servers (Optional Feature)

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