

# SafeKit



A 100% software  
high-availability solution

**EVIDIAN**  
A Groupe Bull Company

## A user-friendly 100% software cluster

SafeKit is a clustering solution implemented entirely in software. It offers high-availability functions traditionally provided by hardware, such as load balancing and data replication. SafeKit removes the need for costly load-balancing boxes to distribute network traffic between servers. And, thanks to real-time file replication between servers, you do not need to invest in shared disk bays.

### **Many operating systems, one clustering solution**

You can install SafeKit on standard servers and deploy the same high-availability technology on Linux®, Windows®, AIX® and Solaris®. The result: lower support, maintenance, and training costs if you need clustering solutions for multiple operating systems.

### **Many application types, one clustering solution**

SafeKit bundles network load balancing, real-time file replication and automatic recovery in a single software solution.

As a result, SafeKit is equally suitable for use with web applications (Apache, Microsoft IIS,...), database applications (Oracle, Microsoft SQL Server, MySQL,...) or a combination of the two. This is unique on the market!

### **Hard or soft - how to choose a high-availability solution?**

The answer is simple: for small and medium-sized applications, a software-based clustering solution is ideal, whereas the hardware clustering solution is better for large applications, in spite of its higher cost and complexity.

## The top 3 scenarios for SafeKit

### **1 Data center**

The multi-platform clustering solution is highly appreciated in a data center, for small or medium-sized applications on the periphery of large databases.

### **2 Distributed organization**

All the local or regional branch offices of a distributed organization can implement on two standard servers a simple, user-friendly high-availability solution.

### **3 Software vendors**

Software vendors can add a multi-platform high-availability option to their applications and propose to their customers an integrated software-based clustering solution.

A free trial version of the 100% software high-availability product is available on [www.evidian.com/safekit](http://www.evidian.com/safekit)

### Kick-start your cluster configuration with SafeKit application modules

Application modules for SafeKit are the easy way to get your clustering solution working quickly. Each module includes a set of pre-configured file templates and restart scripts for an application: Apache, IIS, Oracle, Microsoft SQL Server, MySQL... They only need simple parametrization, such as the server IP addresses, at installation time.

### Single-module clusters

The SafeKit single-module solution is appropriate if you need to deploy high-availability for just one application on a cluster of servers. In this case, you can install and run a single application module on the cluster of servers. Two types of single-module solutions are available:

- The farm, with network load balancing and recovery,
- The mirror, with file replication and recovery.

### Multi-module clusters

If you need to deploy high-availability for several applications on the same cluster of servers, SafeKit also supports multi-module execution. In this case, you can install several application modules on the same cluster and start and toggle them individually.

### Efficient network load balancing

Input traffic is directed to a set of servers sharing the same virtual IP address, and is distributed through a filter loaded on the operating system of each server.

SafeKit is a flexible solution: servers can be more or less powerful and handle different workloads. If a server fails, the others automatically take over its workload.

This clustering solution is ideally suited to farms of up to 10 servers.

### Real-time file replication across a standard network

File replication is configured simply by defining the file directories to replicate.

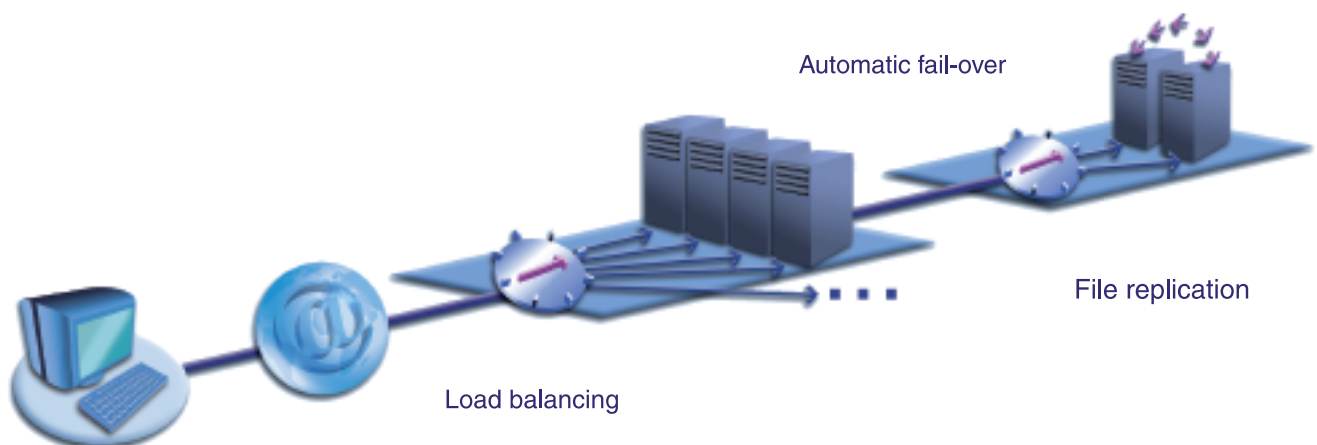
There is no prerequisite on disk organization. Only the file updates are replicated in real time through the network, thus limiting traffic (replication operates on open files at the byte level).

In contrast to asynchronous replication, SafeKit ensures perfect mirroring of data between the disk of the 1st server and the disk of the 2nd server.

Replication is synchronous, with no data loss in case of failure.

After a server failure, during the fail-back procedure, resynchronization of files on the failed server is performed without stopping applications on the other server.

The solution can be used for any type of database with a size below 100 gigabytes. Servers can be located in remote computer rooms in case of disaster.



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