

High Availability Target Scenarios



Hardware Failure

Protection from the failure of basic server hardware components such as...

- Processor
- RAM
- Storage
- Power Supplies



Hardware Updates

Allow for upgrading the solution's underlying infrastructure and hardware without significant interruption in the application's business function.



Platform Failure

Protection from unexpected issues within Windows, IIS, SQL and TrakSYS due to single server environmental conditions.



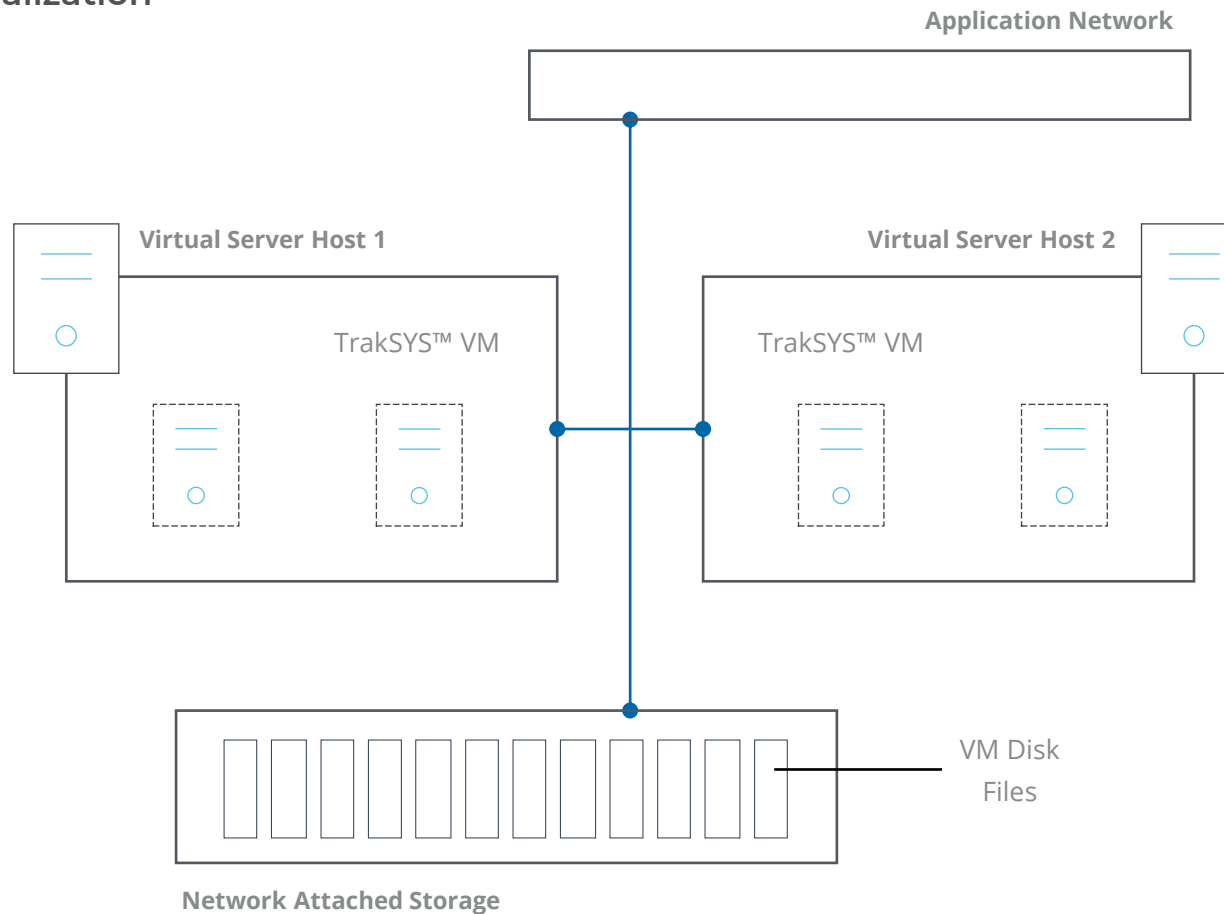
Platform Updates

Allow for the patching, updating and upgrading of the base platform technologies such as Windows, IIS and SQL Server, without significant interruption in the application's business function.

High Availability Hardware Redundancy

High Availability / Fault Tolerance via Virtualization

- Abstracts Hardware to Windows and TrakSYS
- Provides Total Hardware Redundancy
- Requires 3rd Party Virtualization Layer Licensing

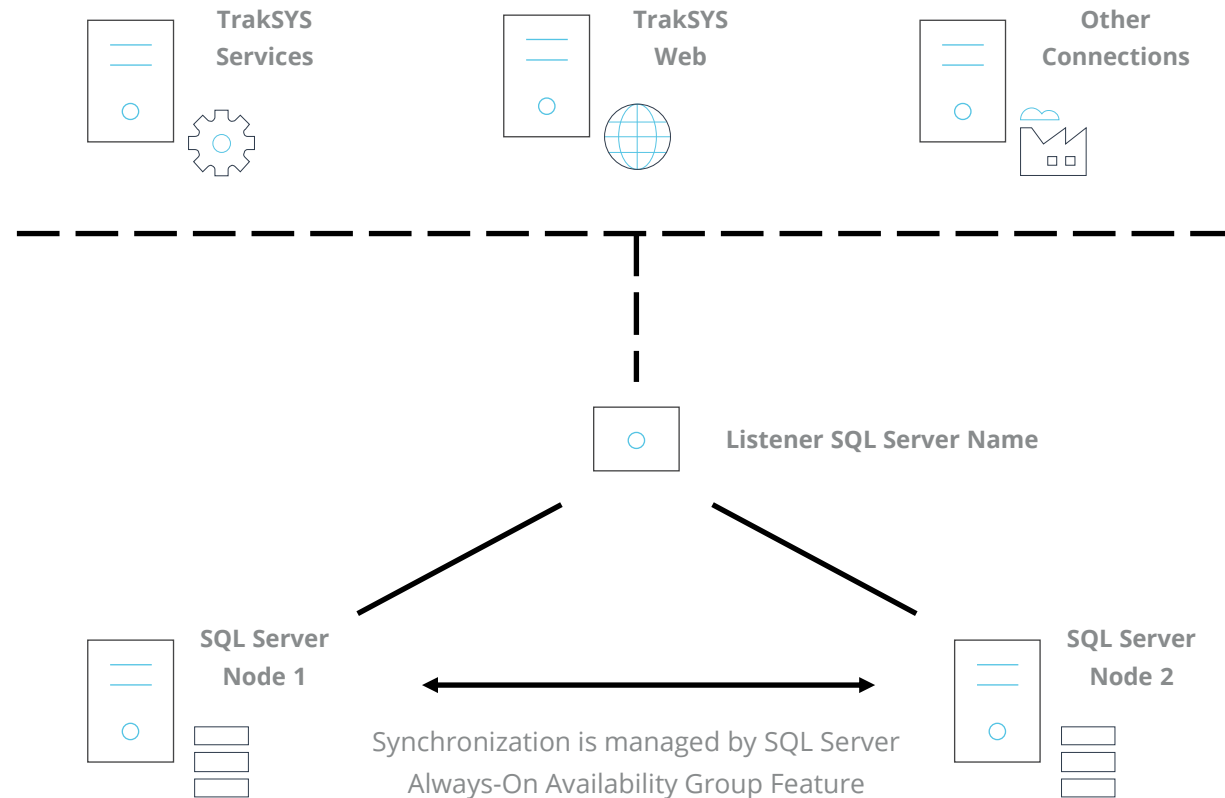


High Availability Database Redundancy

SQL Server Always-On Availability Groups

Abstracts all connections to the database and distributes them to one server or another, or both depending on the configuration.

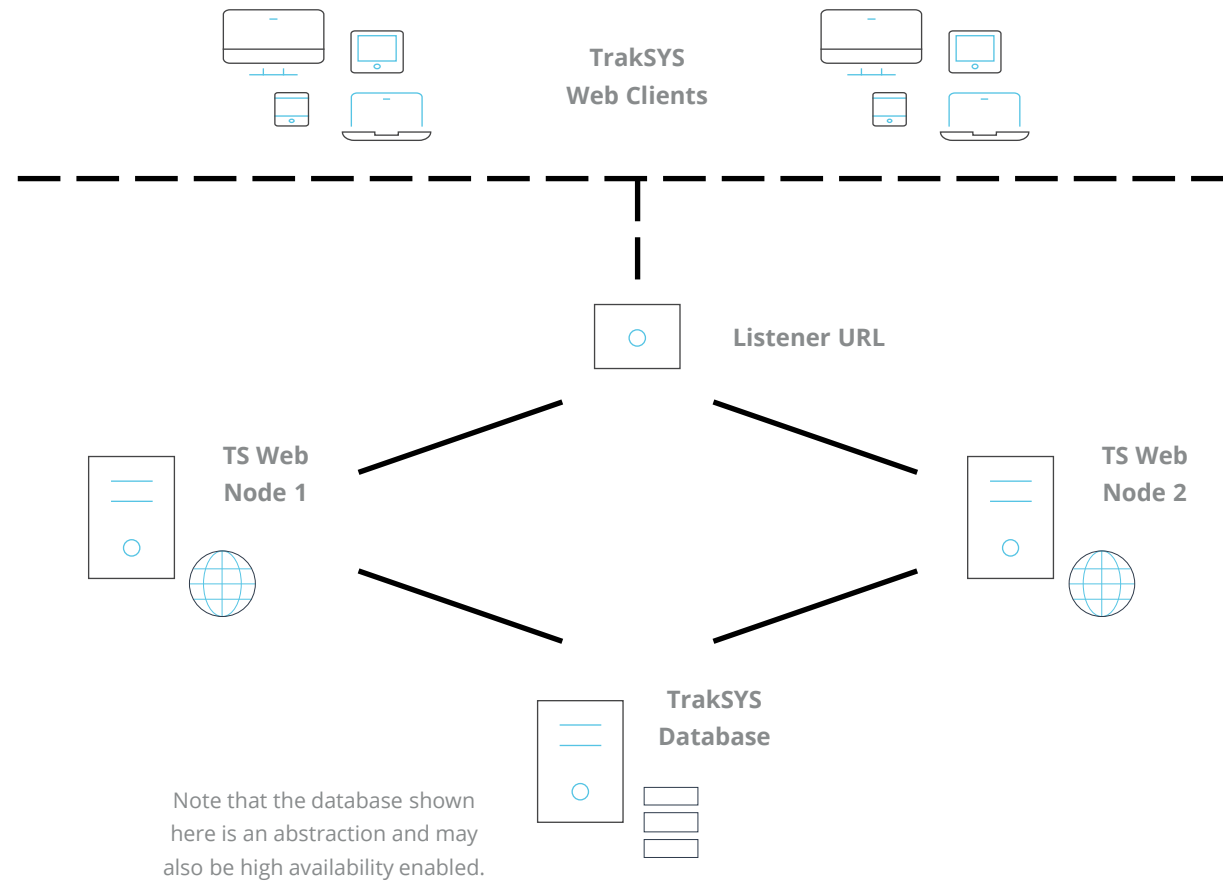
- Requires SQL Server Enterprise
- Requires Windows Server Failover Cluster



High Availability TS Web Redundancy

Windows Server IIS Network Load Balancing

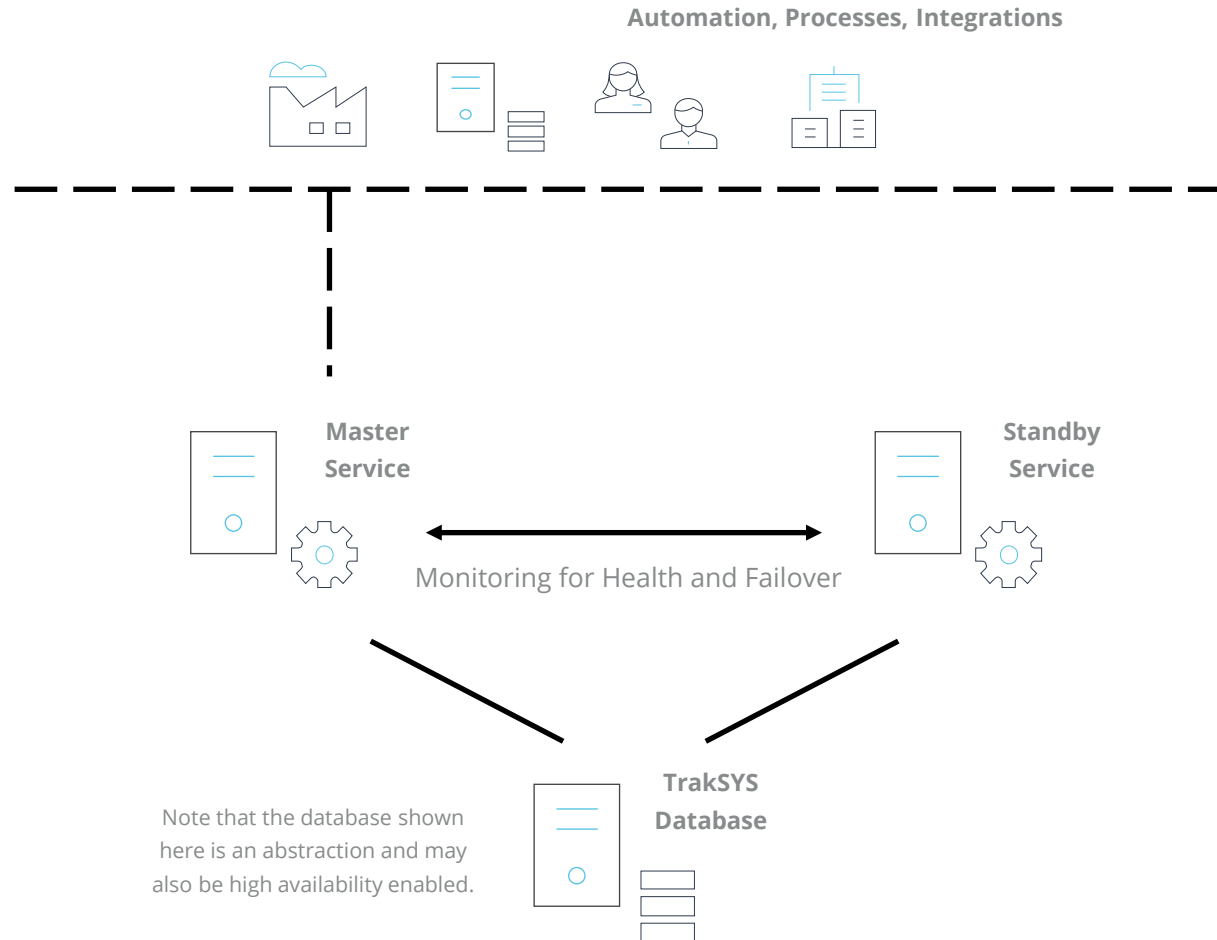
Abstracts all connections to the web application distributes them to one server or another, or both depending on the configuration.



High Availability Service Redundancy

TrakSYS Service Redundancy

When a Service failure occurs for any reason (platform, software or hardware), the Standby Service starts and resumes operations.



High Availability License Considerations



Infrastructure

Additional Servers to Support Redundant Components



Windows Clustering

Windows Server Licenses for additional Cluster Nodes



Virtualization

High Availability Licensing (Platform Dependent)



SQL Server Always-On

SQL Server Enterprise Licenses for Always-On Nodes



TrakSYS High Availability

TrakSYS [High Availability License Feature](#) to enable additional Web Applications and Services