



Hanwha Video Surveillance (CCTV)

Profile

- Hanwha video surveillance platform with high availability of the Smart Security Manager (SSM) application

Users

- A video surveillance activity relying on the SSM application cannot be interrupted by an IT failure.

Challenges

- Find a simple and robust solution for 24x7 availability of the SSM application.

Benefits

- Deploy the solution on two Windows PCs or servers.
- Replicate SSM data in real-time and restart automatically the SSM application in case of failure.

In South Korea, WithNCompany deploys high availability of the Hanwha Video Surveillance platform with SafeKit

Smart Security Manager (SSM), a critical application

Hanwha Techwin's video surveillance products (network cameras, encoders, Digital Video Recorders and Network Video Recorders) are managed through a single application, named SSM (Smart Security Manager).

The SSM application is critical because,

- numerous users can administer video surveillance products installed across multiple sites,
- users monitor maps, live images, playbacks and health checks for each device,
- critical events are displayed to allow the immediate reaction of users.

Hardware or software failures cannot stop the video surveillance

The operators relying on the Smart Security Manager application must react immediately to the slightest incident. The idea of an IT failure compromising the video surveillance and the operators' view is totally unthinkable.

WithNCompany, a reseller of SafeKit in South Korea, offers a high availability solution to provide 24x7 availability of the SSM application between 2 Windows PCs or servers.

WithNCompany chose the Evidian SafeKit high availability solution because it is currently the easiest product on the market to set up and deploy.

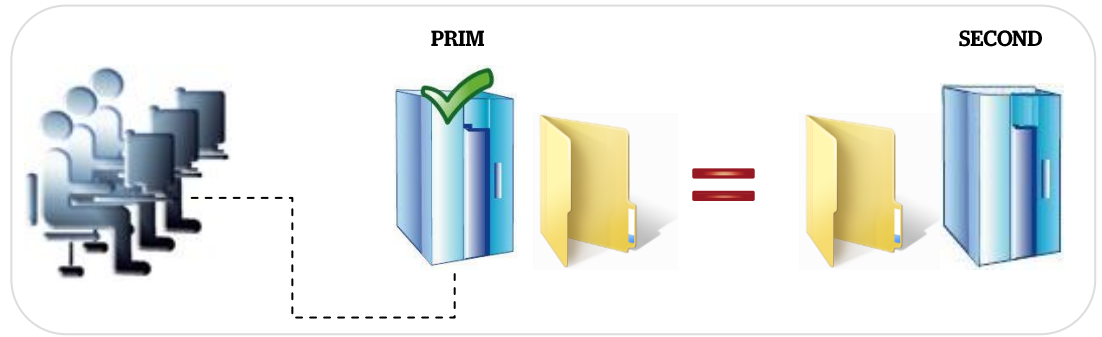
A simple SafeKit mirror module customized for the SSM application

WithNCompany deploys SafeKit on two standard Windows PCs or servers (physical or virtual). Without changing the SSM application, WithNCompany customizes SafeKit with a mirror module. The module implements real-time replication of SSM data over the network, automatic restart of the SSM application in case of failure and failover of the virtual IP address.

Deployment of a SafeKit cluster for high availability of the Hanwha Video Surveillance platform

“WithNCompany is a reseller of Evidian SafeKit in South Korea. WithNCompany has deployed many SafeKit high availability solutions with the Hanwha Video Surveillance Platform and with the SSM application. SafeKit is appreciated because the product is easy to install and very quickly deployed. The SSM application does not need to be modified to run in the high availability mode. The SSM application can be installed on the default C: drive and there is no need to configure a separate disk volume. SafeKit is able to make real-time replication of SSM folders inside the C: drive. Moreover, for cost saving, SafeKit can be installed on 2 Windows PCs instead of 2 servers.”

Tommy Park,
CEO,
WithNCompany.



Phase 1. Normal status.

Server 1 runs the Smart Security Manager (SSM) application. SafeKit replicates on server 2, in real time over the network, the files opened by the SSM application. Only the modifications made by the application are replicated, thereby limiting the traffic.

Phase 2. Switchover in case of failure.

If server 1 fails, SafeKit makes a switchover to server 2. SafeKit switches the cluster's virtual IP address and starts the SSM application on server 2. The application retrieves the replicated files: no write operation on disk is lost between server 1 and server 2.

Phase 3. Failure recovery.

When server 1 is restarted, SafeKit re-synchronizes the files automatically. Only the files modified on server 2 when server 1 was inactive are resynchronized. Server 1 is resynchronized without stopping the SSM applications on server 2.



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