



HA4i - High Availability Solution

Features

- Easy installation and configuration
- Uses Remote Journal technology
- Fully automated replication processes
- Automatic Profile & Password replication
- Complete auditing functionality
- Fully automated role-swap
- Optional many to one, one to many
- Reduced system foot print

System Requirements

- IBM i OS Version 7.3 or later
- Suitable network connection between the source and target systems
- Journaling for both object and database replication, if you do not have journaling enabled, you will need sufficient resources to support the journaling processes



is a premier High Availability solution of the

IBM i and its predecessors (AS/400, iSeries, Systemi, i5, etc). Developed from our experience with other High Availability solutions and customer requests, HA4i delivers a flexible and simplistic approach to implementing a High Availability offering.

New features and enhancements have taken the product beyond its original concepts. The product was completely rewritten to take advantage of ILE concepts which has resulted in a better and leaner product which uses less resources to carry out the task.

HA4i is a full function High Availability Solution that provides the ability to securely replicate your important system data and objects between systems. HA4i is running in many high profile and very demanding IBM i environments with extremely high customer satisfaction levels. It is constantly evolving with new enhancements and

improvement being delivered regularly.

Shield's AAG - Nagios Monitoring for IBM i and EM4i Message Monitoring complement the HA4i environment.

Value

HA4i is attractively priced offering superior functionality at a lower cost.

Developed with "ease-of-use" at its core, this reduces the cost of ownership and provides an easily manageable environment for most IBM i shops. Installation and fix management is carried out using the same commands used to manage the OS. Licensing is IBM CPU tier based.

Services

Services may include: installation and configuration, remote management, project management, or hosting via one of our partners.



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HIGH AVAILABILITY for IBM i



Database File replication

Shield developed its own apply process which uses remote journal technology as the intersystem transport. It applies the entries to a remote database using our proprietary process and can handle any journal entry found in a User Journal. This has brought a number of new benefits, none more important than being able to enhance the apply process based on customer requirements.

Object Replication

Object replication is triggered using the QAUDJRN. As soon as entries are placed into the journal receiver, they are read and if necessary a replication request is placed in the replication queue. This ensures the replication process only replicates the latest copy of an objects and removes duplication of effort. The number of objects supported by the replication process continues to grow, as customers require additional support we are able to introduce it very quickly.

IFS Replication

The IFS can be replicated using the object replication processes (based on the QAUDJRN), or using the user journal process (Journal entries are applied on the target using the apply process). The object replication process will automatically filter out any requests for those objects which are

also being replicated using any user journal configured to HA4i.

DLO Replication

Added by a recent update it uses the QAUDJRN to signal changes that are sent to the remote system.

Auditing

Auditing is important for any High Availability Solution. Even if the apply process does everything it should, there can be times when audits provide additional functionality. The audits available through HA4i have seen many improvements as a result of customer feedback. This has resulted in automated repair capabilities and better object audits.

Monitoring

HA4i has a number of tools which significantly ease the burden of managing the product. An automated process can be configured to run at a set frequency that will check that the processes which should be running are, plus ensure the remote journal links are kept active. It can be configured to notify any number of users if problems are found (even if they are corrected) using a number of notification methods.

HA4i comes with an Email capability which can be configured to send notifications out to pre-determined users via your own internal SMTP server.

Implementation

HA4i is packaged as an IBM LPP, this

means the install and management uses the same IBM commands you use for installing and maintaining the IBM OS. To install, you simply download the base product as a save file from the website, and use the RSTLICPGM command to install and configure the product. The updates we provide are packaged as IBM PTFs, they will be posted to our website to allow download for those users who are under a current maintenance agreement for the product. Installation takes minutes and uses the IBM LOD/APYPTF commands.

Configuration

The installation process gathers the required common configuration data and simple to understand menus offer the ability to configure the application specific data prior to starting the replication process. Once you have configured each side of the replication process you can start the programs and HA4i will maintain a duplicate copy of the configured data and objects on the remote system.

Management

HA4i attempts to recover from most replication errors without notification to the user, however, if an error is found which it cannot rectify, it will pass that notification to the user in a number of ways.



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