



InMage Scout

Simplify Disaster Recovery. Eliminate Backups

- Simple, cost-effective disaster recovery solutions for any application that support long distance requirements using IP-based networks
- Comprehensive recovery that includes not only data recovery but can automate application recovery as well, making it faster and more reliable
- Unique hybrid recovery technology eliminates backups as a discrete event while providing granular recovery capabilities to support the most stringent RPO/RTO requirements
- Single solution that supports heterogeneous servers and storage, preserving existing investments in other data protection products and processes

Recovery is a critical concern for enterprises of all sizes, and must be addressed both remotely (for disaster recovery) and locally (for daily recovery). Disaster recovery (DR) is recognized as a need, but many enterprises cannot afford to implement it effectively in a way to support recovery requirements. Most enterprises are already backing up locally and using tapes for DR, but may be experiencing issues with backup windows, data loss on recovery, lengthy recovery times, or recovery reliability. Because of the heterogeneity of today's IT environments, most enterprises use multiple products and tools to cover their range of recovery requirements, a situation that leads to high management complexity and cost.

Data recovery provides a strong foundation, but alone is not sufficient to meet comprehensive recovery needs. Data is only useful when applications that can use that data are available, and application recovery must be addressed as well to ensure continued business operations. Application recovery generally requires human intervention, further adding to infrastructure complexity, cost, and recovery risk.

InMage Scout: A Single Solution for DR, Backup, and Application Failover

InMage Scout provides a software-based solution that leverages the advantages of disk-based data protection to eliminate backups and provide application-aware recovery that can meet remote (DR) and/or local requirements. Using unique hybrid recovery technology, InMage Scout captures changes to data in real time as they occur and offers flexible recovery to any previous point in time, a feature which ensures fast, reliable recovery even when data is corrupted. Automated recovery of application services can be configured to meet either remote or local requirements, going above and beyond the protection offered by replication, conventional backup, and clustering products alone.

InMage Scout collects changes from one or more servers continuously as they occur and sends them to a local target called the CX. This approach allows very large data sets and applications to be protected while requiring very little network bandwidth. From the CX, data can be replicated to a local repository while at the same time it is replicated to a remote repository for DR purposes. As data is captured, it is labeled in such a way that recoveries can occur from any previous point in time by retroactively creating the desired recovery point as a disk-based image, providing the maximum flexibility to select the best recovery point for any given scenario. N into 1 replication support offers the option of remote office data protection configurations that minimize tape infrastructure and manual involvement in locations that may not have access to sophisticated backup expertise. Recoveries can occur from either remote or local locations, and can meet very stringent RPO/RTO requirements.

InMage Scout supports a range of reliable recovery options that can be equally applied for DR, backup, and application failover. For the fastest recoveries, InMage Scout uses AppShots, which are application-consistent points in time that are automatically tracked based on policies established by the administrator. AppShots can be read/write or read-only, virtual or physical copies of data, depending on how they are defined when they are created. When a recovery is required, administrators can select from a wide range of AppShots so as to pick the one which best supports optimized recovery operations (which can be defined as the most recent, the one right before the data corruption occurred, etc.). Recoveries can also occur from any other previous point in time, each of which are crash-consistent and retroactively generated upon demand, just like AppShots.

Scalable, Cost-Effective DR

InMage Scout supports cost-effective DR configurations that leverage asynchronous, IP-based replication and support heterogeneous servers and storage. The solution scales well as it grows (both in terms of storage capacities and number of supported servers) because most of the processing associated with moving the data is off-loaded to the CX. When recovery is required, InMage Scout can immediately generate recoverable images, and those images can be mounted on local recovery targets or at targets at the DR site. If desired, customers can run production applications at the DR site and then, when the primary site is again ready to be brought on line, InMage Scout can restart primary site operations using the latest data state.

Eliminate Backups

Backup is a discrete administrative operation that impacts production applications and can present scheduling problems. InMage Scout eliminates backup as a discrete operation that impacts production servers while integrating seamlessly with existing backup infrastructures. By front ending existing tape-based configurations with InMage Scout, backup windows are eliminated and near term recoveries can be rapidly and reliably handled directly from disk. If companies still want to migrate data to tape, backups can be performed directly from disk-based images generated by InMage Scout. This can minimize the use of tape in data protection operations, and for some companies may entirely eliminate it.

Automated Application Recovery

InMage Scout also supports application failover/failback, uniquely combining a DR and backup solution with an application availability management solution all on a single platform. Based on policies established by the administrator, InMage Scout may automatically recover applications locally, making services available from a different physical server in a manner completely transparent to clients. Alternatively, administrators can perform a "one button" failover to a remote location. InMage Scout's automated application recovery can be used with any application, and supports faster, more reliable recoveries.

Application Aware Solutions Make Deployments Easy

To simplify deployments, InMage provides a range of application-aware solutions, all of which reside on and are managed centrally from a single, secure, web browser-based management console. InMage Scout solutions include application-specific functionality, particularly with respect to AppShot creation and usage and the management of application failover/failback, even though they are managed under a common set of policies. Multiple application recovery

solutions can all reside on a single CX, although multiple CX's can be deployed to meet scaling requirements. These solutions are available for key enterprise applications such as Microsoft Exchange, SQL, and SharePoint as well as Oracle, Blackberry Server, and SAP as well as any Windows, Linux, or Unix-based file systems. In providing the recovery foundation underneath various application environments, the key advantage InMage Scout offers is its ability to retroactively choose the optimum point from which to start immediate and reliable recovery operations.

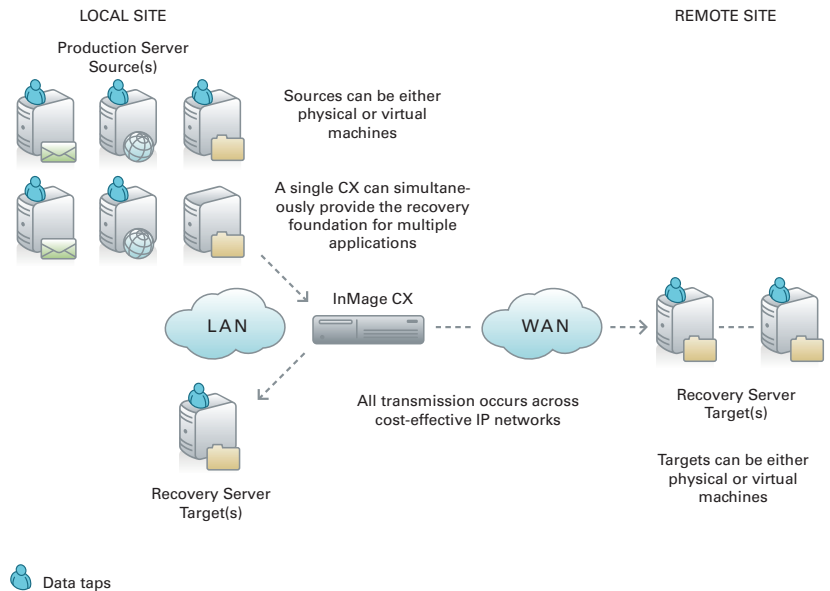


Figure 1. Using data taps, data is granularly collected from servers as it is created and sent to a local CX, which can then store the data locally and/or remotely (using replication). If bi-directional and/or one button application failover is desired at the remote site, an optional second CX would be deployed there. Note that in InMage's unique architecture, data is replicated between servers, not between appliances or storage arrays.

Unique Hybrid Recovery Technology

InMage Scout's unique hybrid recovery technology translates directly into customer value propositions. It accommodates heterogeneous servers (Windows, Linux, and Unix servers are supported) and storage (and storage architectures like DAS, SAN, NAS, iSCSI, and FC), while providing recovery solutions that are tailored to specific application environments. InMage Scout leverages cost-effective IP-based networks for data capture and replication, employing continuous data protection for granular recovery and asynchronous replication to support long distance DR solutions. Its flexible design preserves existing investments in hardware, software, and processes while providing the benefits of disk-based recovery and maximum freedom in purchasing and deploying new products going forward.

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