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Snap Enterprise Data Replicator Express

A Cost-Effective Snap Server Disaster Recovery Solution

Award-winning Snap Servers are a simple, cost-effective way to consolidate data, while still providing instant access to users throughout a corporation. However, as the quantity of critical data being stored on Snap Servers increases over time, the challenge becomes how to protect that data without breaking the IT budget. The chosen data protection solution must address several challenges: protect against file data corruption, operate without impacting access to user data, and provide for instant data availability in the event of a disaster, whether that disaster is a local server failure or regional disaster. Snap Enterprise Data Replicator (Snap EDR) Express solves these challenges, providing an enterprise-class disaster recovery solution for IT departments of any size.

Snap EDR Express is an enterprise-class replication solution, providing both nearline and long distance disaster recovery for GuardianOS-based Snap Servers. Snap EDR Express replicates selected directories, files, and shares between source and destination Snap Servers, whether they are in the same room or across the country. The initial synchronization creates a copy of the selected dataset from the source server to the target location on the destination server. Each subsequent replication job transfers only the differences between the servers at that point in time to ensure that the dataset on the destination server is kept current. For organizations with two active sites, Snap EDR Express can even be used for bi-directional replication, so the Snap Server in each office is both active storage and backup storage for the other office.

Snap EDR Express for Long Distance Disaster Recovery

To fully protect your business' information assets, and to provide access to those assets even during regional disruptions such as power outages and earthquakes, you need to keep an active copy of your data well outside of the potential impact zone. Snap EDR Express is network optimized, allowing destination servers to be located thousands of mile away, connected via a WAN or Internet connection. Snap EDR Express keeps its impact on the network to a minimum by using byte-level differential replication, moving only the changed bytes of a file rather than the whole file, reducing network traffic. Snap EDR Express is highly resilient: if the network goes down during a replication job, it will start again from where it left off when the network becomes available. The high security model present in Snap EDR Express will keep your data safe, even when it is being transferred over less-than reliable public networks.

Snap EDR Express for Nearline Backup

Should a source server ever fail, users can directly access their replicated files from the destination server until the source server is returned to service. Snap EDR Express provides substantially improved time-to-data advantages over traditional tape-based backups: no need to load a tape, find the data, transfer it, uncompress it, and copy it on disk. Snap EDR Express provides immediate access to data on the destination server, eliminating down time and lost productivity. Once the source server has been repaired or replaced, the servers can be re-synchronized simply and easily, without impacting data access.

Flexible, Policy-Based Management

Snap EDR Express provides the ability to customize replication scheduling to meet the unique needs of each business process, whether those needs are near real-time replication or once-a-day backups, or any

Key Features

- Synchronize and Replicate Data Between Snap Servers

- Immediate Access to Replicated Files

- Network Efficient and Resilient

- File-Level Replication Granularity

- High Security Model

- Policy-Based Scheduling

- Full-Featured Monitoring and Reporting

- Browser-Based User Interface for System Administration

Snap EDR Express

combination in between. Not all data is created equal, which is why Snap EDR Express can manage customized replication schedules by directory, allowing more important data to be synchronized as often as needed.

Part of the Snap EDR Family

Snap EDR Express is part of the Snap EDR product line, and can grow with the business through seamless product upgrades. Snap EDR Express is designed for one-to-one replication between two Snap Servers for data protection and disaster recovery. As the business needs grow to include data

consolidation, distribution and management, Snap EDR Express can be easily upgraded to Snap EDR or Snap EDR Advanced without impacting your core disaster recovery solution.

Snap EDR Express

Snap Server 18000   **Snap Server 18000**

Enterprise-Class Data Replication with Snap EDR Express

	Feature	How Does it Work	Benefit
Powerful, Centralized Control	Flexible Scheduling	Replication is scheduled by day, time, with up-to-the-minute scheduling	Maximum flexibility for increased data protection
	Ease of Use	Intuitive installation and graphical interface provides step-by-step job configuration and management	Allows users to quickly move from learning to managing data
Network Optimized	Variable Bandwidth Throttling	Network-aware bandwidth throttling is set using the actual speed of your network. Handles high latency networks.	Full control of limited network bandwidth avoids performance impact
	Data Compression	Compress data to improve network performance	Compression minimizes network traffic and reduces data transfer times
	Byte-level Incremental	Replicate only changed bytes files to minimize network traffic (move less data)	Further reduces network traffic required to move data, keeping the network highly available.
Robust Security	Tiered Security	Combines data encryption with certificate authentication for data transfer	Ensures high security for transmitting sensitive data over public networks
	Certificate Authentication	Strong authentication between hosts utilizing digital certificates	Guarantees data is only sent to authorized parties
	Data Encryption	User-selectable encryption up to 128-bit encryption. Or turn off encryption for improved performance over a LAN	Choose the level of security that's right for the data being transmitted

Data Replicator Express Specifications

Required Components	Snap Server Models Supported	Management Console Operating System Support
• At least one source server and one or more target servers (2 Snap Servers[1]) • Two or more licensed copies of Snap EDR Express software (each Snap EDR agent requires a unique license)[2] • Standard IP network access with one of the following web browsers: • Internet explorer 5.5 or greater • Netscape Navigator 6.1 or greater	Requires GuardianOS 3.1 or higher • Snap Server 18000 • Snap Server 15000 • Snap Server 14000 • Snap Server 4500 • Snap Server 4400 • Snap Server 4200	GuardianOS v3.1 or higher running on supported Snap Servers **System Memory** 128MB or more **Disk Space** Installation Directory: 100MB **Network Connection** 100MB/s Ethernet or faster

[1] Snap EDR not supported on any SnapOS-based Snap Servers.
[2] Snap EDR is not compatible with any version of Server-to-Server (S2S) Synchronization software for Snap Servers

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