



IBM Domino plug-in overview

Snap Creator Framework

NetApp

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IBM Domino plug-in overview

The IBM Domino plug-in for the Snap Creator Framework offers a complete backup and recovery solution for Domino databases on NetApp storage. With the IBM Domino plug-in, you can back up databases efficiently and restore them as needed without taking database servers offline. The plug-in uses IBM-provided APIs to ensure application consistency.

With key NetApp data protection technologies tightly integrated in the Snap Creator Framework, you can use the IBM Domino plug-in to:

- Create application-consistent Snapshot copies on primary storage
- Replicate Snapshot copies to secondary storage for disaster recovery and archiving

Integrated technologies include Snapshot, SnapMirror, and SnapVault.

Understanding IBM Domino plug-in backup operations

Unlike other backup technologies, the IBM Domino plug-in allows data to be written to the database during backup operations. It ensures that the backup is consistent with application data by recording any changes to the database during backup operations in a temporary directory called changeinfo. At restore time, it applies these changes to the database after restoring data from the Snapshot copy.

During backup operations, database files are said to be in backup mode. Although the Snap Creator Framework refers to these files as “quiesced,” that is not the case. Data continues to be written to the files while the Snapshot copy is being made.

High-level steps are as follows:

1. List databases, templates, and mailboxes in the volumes to be backed up.
2. Put files in backup mode, one database at a time.
3. Check for inconsistent or corrupted databases.



You can force the plug-in to proceed with backup operations despite errors, as described in step [task_using_the_gui_to_create_a_configuration_file.md#STEP_AA41331683A24598B7845367CB967F99](#).

4. Make a Snapshot copy of each volume.
5. If Domino transaction logging is in use, archive copies of Domino transaction logs for use in up-to-the-minute restore operations.
6. Take files out of backup mode, one database at a time.
7. Record changes to the database since files were put in backup mode in the changeinfo directory.

Understanding IBM Domino plug-in restore operations

The IBM Domino plug-in restores database files from the Snapshot copy of the volume on which the database is stored. When the Snapshot restore operation is complete, the plug-in applies any changes recorded in the changeinfo directory.

High-level steps are as follows:

1. Restore database files from Snapshot copies.
2. Apply changes recorded in changeinfo directory.
3. Apply transaction log information, if available.

Restore options

The plug-in offers a wide variety of restore options:

Restore type	Description
Volume restore (point-in-time)	Restores the entire volume to its state at the time of the Snapshot copy.
Volume restore (up-to-the-minute)	Restores the entire volume to its state at the time of the Snapshot copy, then plays forward Domino transaction logs to the most recent copy.
Volume restore (selectable up-to-the-minute)	Restores the entire volume to its state at the time of the Snapshot copy, then plays forward Domino transaction logs to a specified time.
Single-file restore (point-in-time)	Restores a single file to its state at the time of the Snapshot copy (NFS only).
Single-file restore (up-to-the-minute)	Restores a single file to its state at the time of the Snapshot copy, then plays forward Domino transaction logs to the most recent copy (NFS only).
Single-file restore (selectable up-to-the-minute)	Restores a single file to its state at the time of the Snapshot copy, then plays forward Domino transaction logs to a specified time (NFS only).

Note: For up-to-the-minute and selectable up-to-the-minute restores, Domino transaction logging must be enabled.

Transaction logs can only be played forward. Selecting a time before the Snapshot copy was created causes a restore error.

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