Setup & configuration issues - Azure SQL Database Ledger

Last updated by | Pooja Kamath | Jun 1, 2021 at 11:33 PM PDT

Setup & Configuration of SQL Ledger

Read more on Azure SQL Database ledger.

Contents

Setup and configuration

1. Ledger database can be configured when creating a new Azure SQL Database from the Azure portal. Under the Security heading in the **Create** pane, go to **Ledger**.
   - Here you can configure your database as a ledger database, such that all tables create in the future are updatable ledger table. Alternatively, you can configure ledger database when creating a new database by specifying the `LEDGER = ON` argument in your CREATE DATABASE(Transact-SQL) statement.
   - If you don't want your database to have updatable ledger tables by default, you can create updatable or append-only ledger tables when creating new tables by specifying the `LEDGER = ON` argument in your CREATE TABLE (Transact-SQL) statement.
   - You can also configure automatic digest storage by selecting either Azure Storage or Azure Confidential Ledger. Note that you do not need to configure ledger database in order to configure automatic digest storage as they are independent from each other.

Home > SQL databases > testmaint (maintwindnotif/testmaint) > maintwindnotif >

Create SQL Database ...

Microsoft

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Enable Azure Defender for SQL * ⓘ

- (•) Start free trial
- ( ) Not now

Azure Defender for SQL will automatically create a new storage account for saving vulnerability assessments. If a storage account was previously created for this purpose, it will be used instead. Azure storage prices will apply.

Ledger (preview)

Ledger cryptographically verifies the integrity of your data and detects any tampering that might have occurred. Learn more

Ledger (preview)

Not configured
Configure ledger

Review + create | < Previous | Next : Additional settings >

Configure ledger (preview) ...

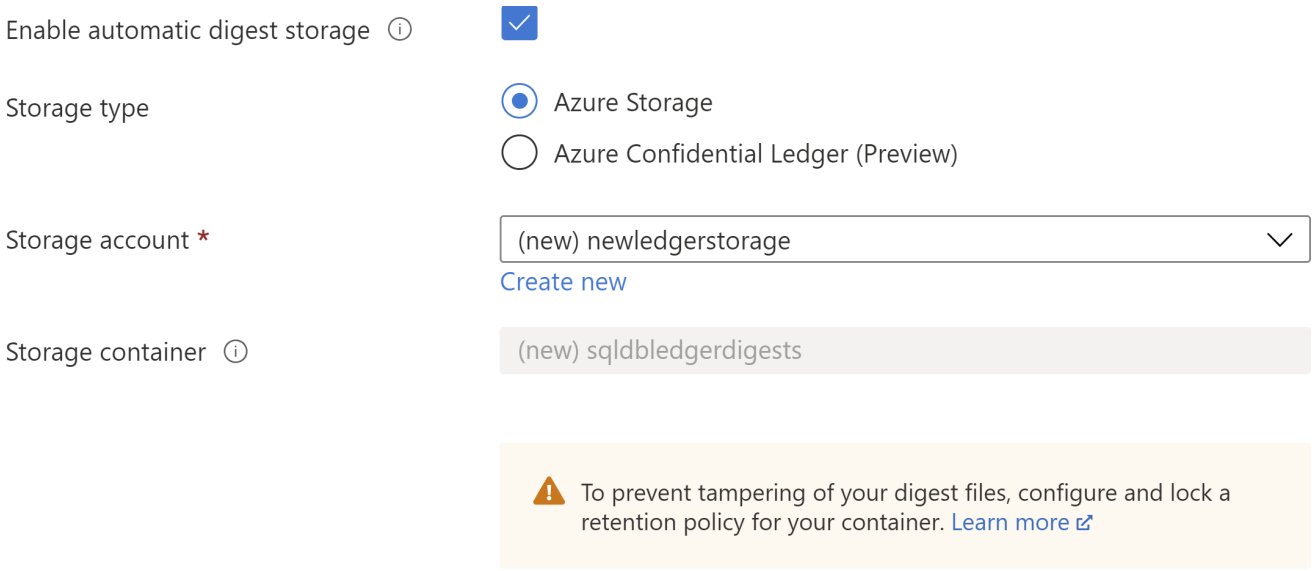
Create SQL Database

Ledger (preview)
Enabling ledger functionality will make all tables in your database ledger tables that can be updated. This option cannot be changed after you create your database. If you do not select this option now, you can create ledger tables that can be updated or only appended to when creating new tables using T-SQL. After enabling ledger functionality for a table, you cannot disable this option. Learn more

Enable for all future tables in this database ☐

Digest storage
If you want ledger to generate digests automatically and store them for your verification later, you need to configure an Azure Storage account or Azure Confidential Ledger. Alternatively, you can manually generate digest and store them in your own secure location. Learn more

Enable automatic digest storage ⓘ ☐



Common Solutions and Limitations:

Common Issues and Solutions

- When configuring an Azure Storage account for digest storage, an time-based retention immutability policy should be configured to protect the digests from potential tampering. The policy must be configured after the storage account and container are created. As such, this must be done after configuring the storage account in Azure SQL Database ledger. See Set and manage immutability policies for Blob storage for details.
- Azure Confidential Ledger does not currently have an Azure Portal experience for viewing and managing ledgers. Refer to the REST API documentation for how to access Azure Confidential Ledger resources.

Limitations

- You cannot enable ledger database for append-only tables. Append-only ledger tables can be created any time through T-SQL, even if you have ledger database enabled.
- Once enabled, ledger database cannot be disabled.
- Once created, updatable and append-only ledger tables cannot be reverted back to non ledger-enabled tables.
- Ledger tables, and columns in ledger tables, once dropped are not deleted from your database. Instead, they are renamed in order to preserve the data in these tables.
- Existing tables cannot be converted to ledger tables. Instead you will have to copy the data from your existing tables to newly created ledger tables.

See Limitations for Azure SQL Database ledger for more details.

Required Permissions and access:

- For details on permissions required for ledger tables, see Permissions.

How good have you found this content?