

# Shopify Sync Automation - Overview

The Shopify Sync Setup page at [phptools.org](https://phptools.org) is designed to facilitate seamless inventory synchronization between two Shopify stores. By entering the required API credentials and store details, users can initiate the synchronization process, which the system will then manage automatically. Upon starting, users are directed to a dashboard that provides real-time progress tracking.

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## Workflow Overview

### 1. User Input

- Users provide API credentials for the source and destination Shopify stores, including optional location IDs.
- These credentials are securely stored for future use.

### 2. Data Collection

- The system retrieves product variant data from both stores using the Shopify API.
- The fetched data is organized and prepared for SKU matching.

### 3. SKU Matching

- The program matches SKUs between the source and destination stores.
- The matching process prepares a dataset for inventory updates by identifying corresponding products in both stores.

### 4. Inventory Updates

- Inventory updates are processed in batches to ensure reliability and avoid timeouts.
- The system automatically updates inventory levels in the destination store based on the matched data.

### 5. Progress Tracking

- Real-time progress tracking is displayed, showing the status of SKU matching and inventory updates.
- Progress is saved, allowing tasks to resume from the last processed point in case of interruptions.

### 6. Logs and Debugging

- Detailed logs are maintained for monitoring and debugging.
  - Errors are logged, and invalid data is skipped to ensure uninterrupted processing.
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## Key Features

- 1. User Input**
    - A simple interface allows users to input store credentials.
    - Credentials are securely stored and used throughout the synchronization process.
  - 2. Data Matching**
    - Matches SKUs between the source and destination stores.
    - Ensures accurate mapping of products for inventory synchronization.
  - 3. Batch Processing**
    - Processes inventory updates in manageable batches for reliability.
    - Resumes from the last successful batch if interrupted.
  - 4. Real-Time Tracking**
    - Provides a dashboard displaying live updates on synchronization progress.
    - Tracks SKU matching and inventory updates.
  - 5. Error Handling**
    - Logs errors and skips invalid data to maintain workflow integrity.
    - Automatically retries failed updates where possible.
  - 6. Automation**
    - Ensures continuous updates through automated scheduling until all SKUs are processed.
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## Usage Instructions

- 1. Set Up Credentials**
  - Enter the API credentials for both stores in the provided interface.
  - Submit the form to initialize the process.
- 2. Start Synchronization**
  - The workflow begins by fetching product data.
  - SKUs are matched between stores, and a dataset is prepared for updates.
  - Inventory updates are initiated in batches.
- 3. Monitor Progress**
  - Use the progress dashboard to track the status of SKU matching and inventory updates.
- 4. Completion**

- The process completes once all SKUs are updated.
- Logs are available for review, providing details on any errors or skipped data.