VESSOT

VAULT ENCRYPTED SINGLE SOURCE OF TRUTH

VESSOT

Secure Portable Data Extension Setup & Usage

Vault Encrypted Single Source Of Truth

The ultimate secure data store for your mission-critical applications.

- Service Configuration
- Extension Installation
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- Functionality & Usage

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Service Configuration

This extension requires a VESSOT account to use - create one at vessot.tech.

What Is VESSOT?

VESSOT is a highly secure business data management service.

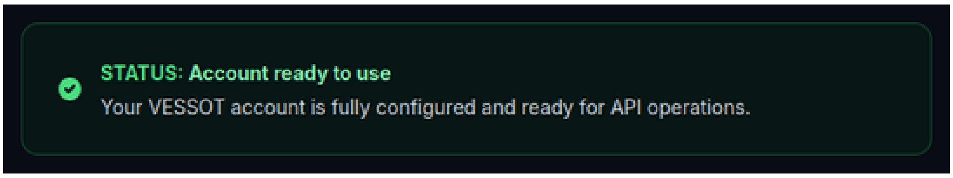
It provides the ultimate solution for securely storing all of your mission critical data, making it portable and accessible between all of your business systems and services.

Read more, including the services quick start guide here.

Getting Setup

Here are the steps for getting setup with your enterprise grade secure data storage solution at VESSOT:

- **Register** for an account here.
- **Enter your payment details** to get setup for usage based billing. All payments are managed by Stripe.
- **Initialise your storage area**. This steps creates your own secure, account specific, storage area for all of your business data.
- **Generate an API token** and store it securely. The API token links the data you push to your storage area.
- **Your account is ready**. You'll see confirmation of this:



✓ STATUS: Account ready to use

Your VESSOT account is fully configured and ready for API operations.

Extension Installation

The extension is installed using composer. Run this command from the root of your Magento install:

```
composer require vessot/magento-secure-portable-data
```

The extension is completely open source. You can see the module on packagist here, and the related GitHub repository here.

This will also install our **vessot/crypt** composer module as a dependency.

This module is also completely open source and you can see it on packagist here, and on GitHub here.

The **vessot/crypt** module handles all the secure communication to the VESSOT service and performs the client side encryption of all your data to before it is communicated to our API

Once installed, run the following commands at your root Magento directory to set the extension:

```
bin/magento module:enable Vessot_SecurePortableData
bin/magento setup:upgrade
bin/magento setup:di:compile
bin/magento setup:static-content:deploy
bin/magento cache:flush
```

The extension will now be correctly setup for use in your Adobe Commerce/Magento environment.

Setup

With your VESSOT account created and configured, and the extension installed, there are some minimal configuration steps required in your Adobe Commerce/Magento install.

They are as follows:

- Set an **environment variable** for your **integration token**.
- Set an **environment variable** for your **encryption key**.
- **Configure** the extension

Setting Environment Variables

This is also documented on our API setup page which you can find here.

When the **vessot/crypt** module encrypts and then communicates data to the VESSOT API, it checks environment variables for your integration token, and also your encryption key.

Note On Environment Variables

Environment variables were used for this data as opposed to admin config options as a deliberate security choice.

Your integration token and encryption key values are critical pieces of information related to your VESSOT account.

If this data appeared as config options in your install, this also means they would appear in your database and subsequent backups.

Setup

There would also be the possibility of these values being added to config.php or env.php and so likely end up under version control.

Any spread of these values in an uncontrolled way like this should be strictly prohibited.

Additionally, as environment variables, you can distribute your install to be setup in local development, or staging environments without fear of these values being included in that distribution.

A note is that this extensions functionality will fail gracefully if these values are not found.

Adding Environment Variables

The requirements here are largely environment specific, but our API setup page found here shows examples for Apache, PHP-FPM and Laravel.

The environment variables to be set are as follows.

For the integration token:

```
VESSOT_INT_TOKEN
```

For the encryption key:

```
VESSOT_CRYPT_KEY
```

Setup

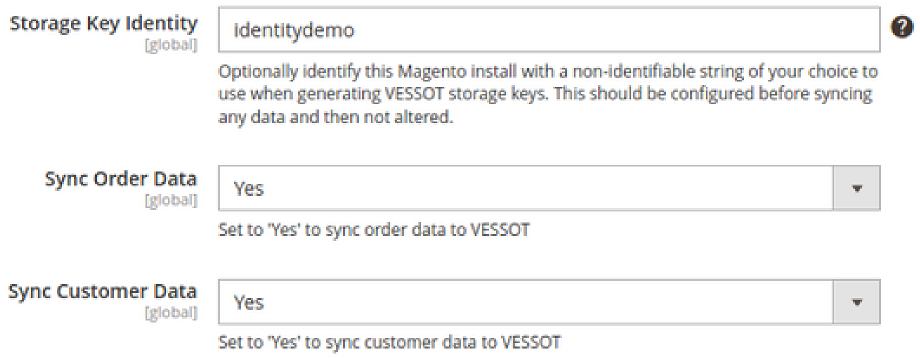
Configuring The Extension

Minimal setup is required within Adobe Commerce/Magento admin. All configuration options can be found in admin under

Stores → Configuration → VESSOT → Data Sync

In this configuration area, you have just 3 configuration options:

- Storage Key Identity
- Sync Order Data
- Sync Customer Data



Storage Key Identity [global]: identitydemo

Optionally identify this Magento install with a non-identifiable string of your choice to use when generating VESSOT storage keys. This should be configured before syncing any data and then not altered.

Sync Order Data [global]: Yes

Set to 'Yes' to sync order data to VESSOT

Sync Customer Data [global]: Yes

Set to 'Yes' to sync customer data to VESSOT

Storage Key Identity

Data is stored to VESSOT in key value pairs. The purpose of the Storage Key Identity config setting is to enter a non specific, unique string that will identify this particular install. This is to ensure that if you use this extension on multiple distinct installs, you won't have a crossover of storage key values. Set this value before enabling any syncing.

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Sync Order Data

This defaults to **No** so you must set this **Yes** in order to enable the syncing of order data to VESSOT. If this setting is disabled, it will also hide VESSOT related data fields, and functionality that would otherwise be available in admin.

Sync Customer Data

This defaults to **No** so you must set this **Yes** in order to enable the syncing of customer data to VESSOT. If this setting is disabled, it will also hide VESSOT related data fields, and functionality that would otherwise be available in admin.

At this stage you will be fully setup, and data will start automatically syncing to VESSOT.

See the next section for information on extension functionality and usage.

Functionality & Usage

This section discusses the automatic and manual functionality offered by the extension, and shows where to see the storage keys that are generated against orders and customers during syncing.

Automatic Functionality

Syncing of day to day order and customer data to VESSOT is done automatically using a message queue. This gives controlled processing of the message queue processing, with a maximum of 500 orders, and 50 customers processed in any given 15 minute period.

There should be no additional configuration required for this to operate correctly, however if you also want to process the order or customer syncing queues from the command line, you can do so using this command for the order queue:

```
bin/magento queue:consumers:start vessot.order.process.save.execute
```

And this command for the customer queue:

```
bin/magento queue:consumers:start vessot.customer.process.save.execute
```

The automatic syncing functionality triggers queueing of an order or customer to sync when any action is taken that either creates or modifies these items. So syncing to VESSOT occurs when:

- A customer places an order.
- An admin user places an order.

Functionality & Usage

- A customer creates an account, or edits an existing accounts data.
- An admin user creates a customer account, or edits an existing customer accounts data.
- A customer creates or edits an address
- An admin user creates or edits a customer address

Basically any action that creates or edits an order or customer will trigger a data sync to VESSOT.

It is also worth noting that when an order is placed, in the case of it not being a guest, syncing of the related customer is also triggered as the customer data stored also contains the VESSOT storage keys of all orders placed by that customer.

Manual Functionality

As well as the manual functionality, it is also possible to trigger syncing from the order grid and the customer grid.

The extension adds an entry to both grids action dropdowns to **Queue for VESSOT Sync**. As with other actions you select the grid items you would like to sync, and then select this action to queue.

This is useful straight after adding the extension to an install with existing orders and customers. Here you can quickly queue up historic orders and customer to sync to VESSOT, and allow the automatic logic to then handle those records day to day.

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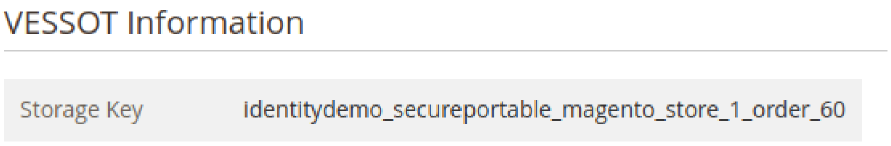
It’s worth noting that there is no harm in queueing items that have already been synced. In this case, records will simply be updated with the latest information, also making this a method to trigger an update should you find that’s ever required.

Seeing VESSOT Storage Keys

After data has been synced to VESSOT, it’s possible to see the storage key the data has been stored to when viewing orders and customers in admin. Note that this information is not shown to the customer.

Order Storage Keys

When viewing an order, you can see the VESSOT storage key under the **Information** tab:

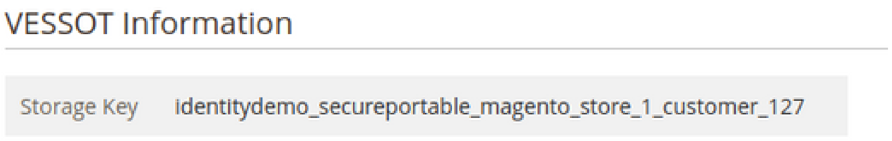


VESSOT Information

Storage Key identitydemo_secureportable_magento_store_1_order_60

Customer Storage Keys

When viewing a customer, you can see the VESSOT storage key under the **Customer View** tab:



VESSOT Information

Storage Key identitydemo_secureportable_magento_store_1_customer_127

Functionality & Usage

Database Query

If you wish to pull VESSOT storage keys from the database directly, you can do so by querying the this table to find order key data:

`vessot_order_key`

And this table to find customer key data:

`vessot_customer_key`

Synced Data

When syncing occurs, the following data is synced to VESSOT with all values encrypted before leaving your servers:

Order Data

- General order information
- Shipping address
- Billing address
- Payment information
- All order items

Customer Data

- General customer informaton
- All custom attributes
- All extension attributes
- Newsletter consent
- All addresses
- All VESSOT storage keys for the customers orders

Functionality & Usage

Retrieving Data On Other Systems

The final point to cover is retrieving order and customer data that has been synced from Adobe Commerce/Magento to VESSOT, on other systems.

In order to do this, you should leverage our stand alone **vessot/crypt** composer package as covered in our API setup page here and discussed earlier. Simply install the package on whatever system requires access to the synced data:

```
composer require vessot/crypt
```

You should also configure the integration token, and encryption key as environment variables in this environment, as covered previously.

The API setup page also covers making API calls using the composer package. But by way of a simple example of getting all data for a given key, first instantiate the VESSOT data object in the relevant class:

```
<?php
...
use Vessot\Service\Data as VessotData;
...
public function __construct(
    protected VessotData $vessotData
) { }
...
```

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Then in that class call the **show()** method against the VESSOT data object passing the key you want to retrieve the data against:

```
$key = ‘identitydemo_secureportable_magento_store_1_customer_127’
$result = $this->vessotData->show(
   $key
);
```

This will pull the encrypted record from VESSOT, automatically decrypt it, and return the plaintext data that was originally stored under your Adobe Commerce/Magento install.

This marks the end of the guide. If you require support or guidance in using this extension or the VESSOT service, you can contact us at hello@vessot.tech.

Thank you for choosing VESSOT!

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