



Magento Product Updates

Magento 2.1.4 Enterprise Edition
Magento 2.1.4 Community Edition

Magento 2.0.12 Enterprise Edition
Magento 2.0.12 Community Edition

Magento 1.14.3.2 Enterprise Edition
Magento 1.9.3.2 Community Edition



Table of Content	
Magento Enterprise Edition 2.1.4	3
Highlights	3
Security enhancement	3
Functional fixes and enhancements	3
Known issues	6
System requirements	7
Install the Magento software	8
Upgrade from an earlier version	9
Migration toolkits	9
Magento Community Edition 2.1.4	10
Highlights	10
Security enhancement	10
Functional fixes and enhancements	10
Known issues	13
System requirements	14
Install the Magento software	15
Upgrade from an earlier version	16
Migration toolkits	17
Magento Enterprise Edition 2.0.12	18
Highlights	18
Security enhancement	18
Functional fixes	18
Known issues	21
System requirements	22
Install the Magento software	23
Upgrade from an earlier version	24
Migration toolkits	24
Magento Community Edition 2.0.12	25
Highlights	25
Security enhancement	25
Functional fixes	25
Known issues	28
System requirements	29
Install the Magento software	30
Magento Community Edition 1.9.3.2	32
Important upgrade information	32
Magento Enterprise Edition 1.14.3.2	33
Important upgrade information	33



Magento Enterprise Edition 2.1.4

We are pleased to present Magento Enterprise Edition 2.1.4. This release includes many functional fixes and enhancements, plus one important security fix.

Highlights

Magento 2.1.4 contains more than 20 functional fixes and enhancements, and one security enhancement. Look for the following highlights in this release:

- **Removal of vulnerability with the Zend framework `Zend_Mail` library.** For more information, see [New Zend Framework 1 Security Vulnerability](#).
- **Updates to the catalog, payment, and sales modules.**

Security enhancement

This release includes an important enhancement to the security of your Magento software. While there are no confirmed attacks related to the Zend framework `Zend_Mail` library vulnerability to date, certain vulnerabilities can potentially be exploited to access customer information or take over administrator sessions. We recommend that you upgrade your existing Magento software to the latest version as soon as possible.

Functional fixes and enhancements

We address the following functional fixes and enhancements in this release.

Catalog

- The storefront gallery now displays all the images associated with a configurable product. Previously, when you clicked on the swatches associated with a configurable product, the gallery displayed only one of several possible images. ([GITHUB-6195](#)), ([GITHUB-4101](#))
- Magento now displays the **This is a required field** message immediately adjacent to the product options as needed during checkout. Previously, Magento displayed this message at the bottom of the checkout form.



Checkout

- Magento now successfully estimates shipping costs. Previously, when you tried to estimate shipping costs, the load indicator would spin indefinitely, and Magento displayed this exception: `Object doesn't support this action.` ([GITHUB-5358](#)), ([GITHUB-7051](#))

Indexers

- `IndexerHandlerFactory` no longer tries to cast the `$indexer` object to a `String` if an error occurs. Since `$indexer` is an object of type `IndexerInterface` and does not have a `_toString()` method, attempting to cast the `$indexer` object to a `String` previously resulted in an error. ([GITHUB-5155](#))
- The Magento flat indexer now collects correct product data for `ROW_ID`.
- The Magento flat indexer no longer throws an error after flat tables are enabled and re-indexed. This fix applies to both product and catalog tables.

Installation, configuration, and deployment

- Third-party command line tools no longer fail when you run `setup:di:compile`.
- Magento now correctly applies website configuration parameters to the corresponding store view. ([GITHUB-7943](#))

Miscellaneous

- Magento now displays the price of out-of-stock products on the product page.
- The **Allow Gift Wrapping for Order Items** setting now works as expected. Previously, when **Stores > Configuration > Sales > Gift Options** was set to **No**, users saw the Gift Option link under each product in their shopping cart.
- Information set by the **Default Billing Address** and **Default Shipping Address** checkboxes on the Customer page are now saved correctly.
- Admin users with appropriate permissions can now reset the passwords of more than one customer at a time. ([GITHUB-5260](#))
- Admin interface forms now load data as expected after initializing all components. Previously, under certain conditions, the load indicator would spin indefinitely, and Magento would not load data.



- If you remove an item from the Compare Items list that is displayed on any Category page, Magento no longer redirects you to the Compare Products page.
- The order comments history no longer duplicates the time that a comment was made. Previously, the time that a comment was made was listed twice.

Payment methods

- You can now successfully complete PayPal checkout with products that have custom options. ([GITHUB-5938](#))
- PayPal Payflow Pro now uses the currency you've specified in your store settings. Previously, Magento converted the total price into U.S. dollars, no matter which currency was specified in the store settings.
- Magento no longer displays the **No Payment method available** message when a customer tries to ship items to a billing-restricted country.
- Third-party payment gateways are now visible from the Admin. ([GITHUB-7891](#))
- Magento now updates you as expected on order comments and order history after you initiate a refund using Braintree. Previously, when you clicked the **Refund** button (to initiate a refund), Magento did not redirect you to order comments and history information.
- We've fixed an issue with using PayPal Express Checkout to order products with custom options. Previously, although an Admin user could create and configure File type custom options, customers could not upload and store files within the order quote. ([GITHUB-5434](#))

Travis builds

- We've fixed a fatal issue that occurred if you executed the `CatalogImportExport` test before running a subsequent test. Previously, you would receive this error: `Failed asserting that false is true.`
- We've fixed a fatal issue that occurred if you ran Travis builds on `imagettfbbox 2.1.2`. Previously, you would receive this error:

```
PHP Fatal error: Call to undefined function
Magento\Framework\Image\Adapter\imagettfbbox() in
/home/travis/build/magento/magento2/lib/internal/Magento/Framework
/Image/Adapter/Gd2.php
```

Known issues

Issue: You receive the following fatal error while installing 2.1.3 from `repo.magento.com`:

```
Fatal error: Cannot instantiate interface
Magento\Framework\App\Config\Scope\ReaderPoolInterface in
/var/www/html/magento2ce/vendor/magento/framework/ObjectManager/Factory/Dynamic/Developer.php on line 73
```

Workaround: You can avoid this fatal error by taking one of these actions:

- If your Magento root directory is `<Magento install dir>/pub`, then start the Web Setup Wizard from `http://<Magento host or IP>/setup` instead of from `http://<Magento host or IP>`
- Install Magento using the [command line](#).

Issue: Magento fails to validate a customer address or customer attributes as expected during checkout.

Issue: Installing with Varnish can result in products not appearing on the frontend even after you purge the cache.

Issue: When editing a product, you cannot edit customizable options on the store view level. Consequently, a change to one option affects products on all stores. Also, the **Use Default Value** checkbox for the option title does not work. Clearing this checkbox, and then changing the option title affects all store views.

Issue: You cannot use a negative value in the **Quantity** field for a product, even when you activate back orders (**Stores > Configuration > Catalog > Inventory > Product Stock Options > Backorders = Allow Qty Below 0**) ([GITHUB-7401](#))

Issue: When you upgrade your Magento installation from the command line, the `bin/magento` commands do not skip the `var/session` folder, as expected. (The `bin/magento` commands include `setup:cron:run`, `setup:upgrade`, and `setup:uninstall`.) **Workaround:** Make `var/session` writeable before you run the `bin/magento` commands.

Issue: The Low Stock Products report (**Admin > Reports > Products > Low Stock**) is not working correctly.



Issue: You cannot re-enable a previously disabled `Magento_AdminGws` module without causing a range of JavaScript errors. Here is a sample error:

```
[PDOException]
SQLSTATE[42S02]: Base table or view not found: 1146 Table
'magento.quote_item' doesn't exist
```

Issue: If you move a product update from one scheduled update to another, Magento will no longer track entity changes.

Issue: You cannot place an order from an account that has multiple shipping addresses available, even after you select only one address. While placing an order, if you select one shipping address from a list of available addresses, and then try to proceed to the Shipping step, Magento displays this type of error:

```
Parse error: syntax error, unexpected ' ', expecting endswitch
(T_ENDSWITCH) or case (T_CASE) or default (T_DEFAULT) in
/var/www/html/magento2ce/var/view_preprocessed/html/app/code/Magento/GiftM
essage/view/frontend/templates/inline.phtml on line 1
```

Issue: You cannot generate secure content if you deploy static content under these conditions:

- `pub/static` is in read-only mode
- Magento is in production mode

Requests to `pub/static/_requirejs/frontend/Magento/luma/en_US/secure/requirejs-config.js`, and consequently the frontend code, will fail under these conditions.

Issue: Client-side LESS compilation is not working properly. Consequently, page load performance is not optimal.

System requirements

Our technology stack is built on PHP and MySQL. For more information, see [System Requirements](#).



Install the Magento software

See one of the following sections:

- [Get Magento EE using Composer](#)
- [Get Magento EE using a compressed archive](#)
- [Complete the installation](#)

Get Magento EE using Composer

Magento EE is available from repo.magento.com. Before installing the Magento EE software using Composer, familiarize yourself with these [prerequisites](#), then run:

```
composer create-project --repository-url=https://repo.magento.com/magento/project-enterprise-edition=<version> <installation directory name>
```

where <version> is 2.1.0, 2.1.1, and so on

For example, to install 2.1.1 in the `magento2` directory:

```
composer create-project --repository-url=https://repo.magento.com/magento/project-enterprise-edition=2.1.1 magento
```

Get Magento EE using a compressed archive

The following table discusses where to get the Magento software. We provide the following downloads:

- Magento EE software only
- Magento EE software with sample data (designed to help you learn Magento faster)
-

These packages are easy to get and install. You don't need to use Composer, all you need to do is to upload a package to your Magento server or hosted platform, unpack it, and run the web-based Setup Wizard.

Archives are available in the following formats: `.zip`, `.tar.bz2`, `.tar.gz`.

To get the Magento EE archive:

1. Go to [your account on magento.com](#).
2. Log in with your Magento user name and password.
3. In the left navigation bar, click **Downloads**.



4. In the right pane, click **Magento Enterprise Edition 2.X > Full Release** or **Magento Enterprise Edition 2.X > Full Release + Sample Data** for the software.
5. Follow the instructions on your screen to complete the Magento EE download:
 - `Magento-EE-<version>.*` (without sample data)
 - `Magento-EE-<version>+Samples.*` (with sample data)
6. Transfer the installation package to your development system.

Complete the installation

After you get the EE software:

1. [Set file system ownership and permissions](#).
2. Install the software:
 - [Web Setup Wizard](#)
 - [Command line](#)

Upgrade from an earlier version

To upgrade to Magento EE 2.1 from an earlier version, see [Upgrade to Magento version 2.1 \(June 22, 2016\)](#).

Migration toolkits

The [Data Migration Tool](#) helps transfer existing Magento 1.x store data to Magento 2.x. This command-line interface includes verification, progress tracking, logging, and testing functions. For installation instructions, see [Install the Data Migration Tool](#). Consider exploring or contributing to the [Magento Data Migration repository](#).

The [Code Migration Toolkit](#) helps transfer existing Magento 1.x store extensions and customizations to Magento 2.0.x. The command-line interface includes scripts for converting Magento 1.x modules and layouts.



Magento Community Edition 2.1.4

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Highlights

Magento 2.1.4 contains more than 20 functional fixes and enhancements, and one security enhancement. Look for the following highlights in this release:

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- PayPal Payflow Pro now uses the currency you've specified in your store settings. Previously, Magento converted the total price into U.S. dollars, no matter which currency was specified in the store settings.
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PHP Fatal error: Call to undefined function
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/var/www/html/magento2ce/vendor/magento/framework/ObjectManager/Facto
ry/Dynamic/Developer.php on line 73
```

Workaround: You can avoid this fatal error by taking one of these actions:

- If your Magento root directory is `<Magento install dir>/pub`, then start the Web Setup Wizard from `http://<Magento host or IP>/setup` instead of from `http://<Magento host or IP>`
- Install Magento using the [command line](#).

Issue: Magento fails to validate a customer address or customer attributes as expected during checkout.

Issue: Installing with Varnish can result in products not appearing on the frontend even after you purge the cache.

Issue: When editing a product, you cannot edit customizable options on the store view level. Consequently, a change to one option affects products on all stores. Also, the **Use Default Value** checkbox for the option title does not work. Clearing this checkbox, and then changing the option title affects all store views.

Issue: You cannot use a negative value in the **Quantity** field for a product, even when you activate back orders (**Stores > Configuration > Catalog > Inventory > Product Stock Options > Backorders = Allow Qty Below 0**) ([GITHUB-7401](#))



Issue: When you upgrade your Magento installation from the command line, the `bin/magento` commands do not skip the `var/session` folder, as expected. (The `bin/magento` commands include `setup:cron:run`, `setup:upgrade`, and `setup:uninstall`.) **Workaround:** Make `var/session` writeable before you run the `bin/magento` commands.

Issue: The Low Stock Products report (**Admin > Reports > Products > Low Stock**) is not working correctly.

Issue: You cannot re-enable a previously disabled `Magento_AdminGws` module without causing a range of JavaScript errors. Here is a sample error:

```
[PDOException]
SQLSTATE[42S02]: Base table or view not found: 1146 Table
'magento.quote_item' doesn't exist
```

Issue: You cannot place an order from an account that has multiple shipping addresses available, even after you select only one address. While placing an order, if you select one shipping address from a list of available addresses, and then try to proceed to the Shipping step, Magento displays this type of error:

```
Parse error: syntax error, unexpected ' ', expecting endswitch
(T_ENDSWITCH) or case (T_CASE) or default (T_DEFAULT) in
/var/www/html/magento2ce/var/view_preprocessed/html/app/code/Magento/
GiftMessage/view/frontend/templates/inline.phtml on line 1
```

Issue: You cannot generate secure content if you deploy static content under these conditions:

- `pub/static` is in read-only mode
- Magento is in production mode

Requests to `pub/static/_requirejs/frontend/Magento/luma/en_US/secure/requirejs-config.js`, and consequently the frontend code, will fail under these conditions.

Issue: Client-side LESS compilation is not working properly. Consequently, page load performance is not optimal.

System requirements

Our technology stack is built on PHP and MySQL. For more information, see [System Requirements](#).



Install the Magento software

You can get Magento Community Edition 2.1 from Github, Composer, or using a compressed archive.

See one of the following sections for more information:

- [Get the Magento CE software using Composer](#)
- [Get a compressed archive](#)
- [Get the Magento CE software from GitHub](#)
- [Complete the installation](#)

Get the Magento CE software using Composer

The CE software is available from `repo.magento.com`. Before getting the CE software, familiarize yourself with the Composer metapackage [prerequisites](#), then run

```
composer create-project --repository-url=https://repo.magento.com/magento/project-community-edition=<version> <installation directory name>
```

where `<version>` is 2.1.0, 2.1.1, and so on

For example, to install Magento CE 2.1.1 in the `magento2` directory:

```
composer create-project --repository-url=https://repo.magento.com/magento/project-community-edition=2.1.1 magento2
```

Get a compressed archive

The following table discusses where to get the Magento software. We provide the following downloads:

- Magento CE software only
- Magento CE software with sample data (designed to help you learn Magento faster)

These packages are easy to get and install. You don't need to use Composer, all you need to do is to upload a package to your Magento server or hosted platform, unpack it, and run the web-based Setup Wizard.

Archives are available in the following formats: `.zip`, `.tar.bz2`, `.tar.gz`

To get the Magento CE software archive:



1. Go to <http://magento.com/download>.
2. Choose either the software or the software and sample data:
 - `Magento-CE-<version>.*` (without sample data)
 - `Magento-CE-<version>+Samples.*` (with sample data)

<version> is the three-digit release number (for example, 2.0.7, 2.0.10, and so on).

Get the Magento CE software from GitHub

If you clone the Magento 2 GitHub repository, you *cannot* use the Magento software in a production environment. You cannot have a live store that accepts orders and so on.

Before proceeding, please familiarize yourself with these prerequisites, then run

```
git clone git@github.com:magento/magento2.git
cd magento2
git checkout tags/<version>[-b <version>]
```

where

<version> is 2.1.0, 2.1.1, and so on

`[-b <version>]` optionally checks out a new branch.

Complete the installation

After you get the CE software:

1. [Set file system ownership and permissions](#).
2. Install the software:
 - [Web Setup Wizard](#)
 - [Command line](#)

Upgrade from an earlier version

See the following sections for more information.



Upgrade an existing installation from the GitHub repository

Developers who contribute to the CE codebase can [upgrade manually](#) from the Magento CE GitHub repository.

1. Go to the [Contributing Developers](#) page.
2. Follow the instructions to pull the updates from the repository and update using Composer.

Other upgrades

Other types of upgrades are discussed in [Upgrade to Magento version 2.1 \(June 22, 2016\)](#).

Migration toolkits

The [Data Migration Tool](#) helps transfer existing Magento 1.x store data to Magento 2.x. This command-line interface includes verification, progress tracking, logging, and testing functions. For installation instructions, see [Install the Data Migration Tool](#). Consider exploring or contributing to the [Magento Data Migration repository](#).

The [Code Migration Toolkit](#) helps transfer existing Magento 1.x store extensions and customizations to Magento 2.0.x. The command-line interface includes scripts for converting Magento 1.x modules and layouts.



Magento Enterprise Edition 2.0.12

We are pleased to present Magento Enterprise Edition 2.0.12. This release includes many functional fixes and enhancements.

Backward-incompatible changes are documented in [Magento 2.0 Backward Incompatible Changes](#).

Highlights

Magento 2.0.12 contains more than 20 functional fixes and enhancements, and one security enhancement. Look for the following highlights in this release:

- **Removal of vulnerability with the Zend framework `Zend_Mail` library.** For more information, see [New Zend Framework 1 Security Vulnerability](#).
- **Updates to the catalog, payment, and sales modules.**

Security enhancement

This release includes an important enhancement to the security of your Magento software. While there are no confirmed attacks related to the Zend framework `Zend_Mail` library vulnerability to date, certain vulnerabilities can potentially be exploited to access customer information or take over administrator sessions. We recommend that you upgrade your existing Magento software to the latest version as soon as possible.

Functional fixes

We address the following functional issues in this release.

Catalog

- You can now directly add a configurable product (with all possible options defined) to your shopping cart from the category page. Previously, you had to review a product on the product page before completing the process of adding it to your shopping cart. ([GITHUB-2574](#)), ([GITHUB-5850](#)), ([GITHUB-5882](#)), ([GITHUB-6572](#)), ([GITHUB-5558](#))



- Admin users can no longer create an empty URL key for a category. Previously, Magento let Admin users create an empty URL key, which lead to category-related errors.
- Magento now successfully saves a product even when you include an empty Custom Options row (**Products > Catalog > Custom Options**). Previously, under these conditions, Magento displayed the `Invalid option value` error message, and did not save the product.
- The **Match products by rule** option in the Admin interface now works as expected.
- You can now successfully match products by rule with an AND condition on Category Rule. Previously, this operation did not return any matched products.

Checkout

- Magento now displays custom address attributes on the checkout summary.
- The **Use Default Checkboxes for Custom Options** option now works as expected. Previously, the checkboxes under the option title and value title were not rendered correctly, and the feature did not work.
- Magento now displays the **Thank you for your purchase!** message after a customer successfully checks out. Previously, Magento did not display this message, even though the HTML code was present. (GITHUB-6968)
- You can now create a new order from the Magento Admin. ([GITHUB-5533](#)), ([GITHUB-6855](#))

Customer

- When you add an address, new custom attributes are now displayed together, along with other address details.

Gift card

- You can now use a gift card to complete payment for an order that contains gift wrap. Previously, when you paid for an order with a gift card, the gift wrap amount remained as a balance, even when the gift card contained sufficient funds to cover the expense of gift wrapping.

Import/export

- Magento can now import additional images that are tagged with labels that contain a comma separator.



- Magento no longer deletes a product after you select the Replace option while importing a product. Previously, Magento deleted the product rather than replacing it.
- You can now use Extension Manager to uninstall extensions that were installed using Composer.

Miscellaneous

- Magento now redirects you to the Setup page as expected when you specify a particular port when installing the application using Nginx. Previously, Magento did not redirect you to the Setup page, and instead displayed this message in `var/report`: You cannot install Magento using the Setup Wizard because the Magento setup directory cannot be accessed.
- Requests to Edge Side Includes (ESI) now return data. Previously, requests to ESI did not return data because the requested block was absent in the layout.
- Admin users need view permission to the store to which the customers belong in order to see information about those customers. Previously, an Admin user could see information about customers that belonged to websites or stores for which the user did not have explicit permission to view.
- You can now change a category's display mode to Static Block Only when the flat indexer is on. Previously, Magento experienced a fatal error under these conditions.
- You can now use Composer to install Magento 2.0.x with sample data, and use `deploy:mode:set production`, without incurring an error. Previously, Magento displayed an error when you tried to use `deploy:mode:set production` under these conditions.

Payment methods

- You can now ship items to a country from which you have not authorized payment. Previously, when a customer tried to ship an order to a country from which the store was not authorized to receive payment, Magento displays this message, `No Payment method available`.

Sales

- Magento now displays an error message as expected when a user tries to add less than the specified minimum quantity of a product to their shopping cart.



- The Free Shipping method now shows up as an available option when you create an order from the Magento Admin. ([GITHUB-2939](#))
- Magento no longer assigns all orders a status of Suspected Fraud in multi-currency store configurations. ([GITHUB-4263](#))
- An Admin user with restricted permissions no longer has access to all orders.

Travis builds

- We've fixed a fatal issue that occurred if you ran Travis builds on `imagettfbbox 2.1.2`. Previously, you would receive this error:

```
PHP Fatal error: Call to undefined function
Magento\Framework\Image\Adapter\imagettfbbox() in
/home/travis/build/magento/magento2/lib/internal/Magento/Framework
/Image/Adapter/Gd2.php
```

Known issues

- **Issue:** You cannot cancel check out of an order you are making with the Worldpay payment option without emptying your shopping cart. Currently, when you cancel a checkout operation while using this payment method, Magento empties your shopping cart.
- **Issue:** Customers cannot view all images that are associated with a configurable product. The gallery does not show all the images that are associated with a configurable option. ([GITHUB-6195](#)), ([GITHUB-4101](#))
- **Issue:** You cannot use the Web Setup wizard to uninstall a module.
- **Issue:** Magento does not save a configurable product with specific attribute options under the following conditions:
 - the configurable product price is derived from its children
 - the children have been previously created and are in stock
- **Issue:** After you've removed all variations of a configurable product (**Admin > Configuration > Remove Product**), the **Add Products Manually** link is not available. **Workaround:** Retain at least one variation or use the **Choose a different product option** option.



- **Issue:** Magento saves images and videos as global values, not per store view. This can potentially result in the unwanted duplication of product images across store views.
- **Issue:** Magento does not consistently save video information for a product after you edit the information.
- **Issue:** Client-side LESS compilation is not working properly. Consequently, page load performance is not optimal.
- **Issue:** You encounter an error when you try to install Magento with the `magento/module-cms-sample-data 100.0.5` sample data set: **Error in update!**
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- **Issue:** You cannot use Braintree PayPal to successfully complete the purchase of a gift card. Instead, your purchase stays in the processing stage.
- **Issue:** You cannot successfully create and save a dropdown attribute using **Stores > Attributes > Product > Add New Attribute**. **Workaround:** Save the attribute with **values required** set to **no** first, before re-saving it with **values required** set to **yes**.
- **Issue:** Magento experiences a fatal error when you try to get a refund on an invoice. (Specifically, a fatal error occurs when calling `LocalizedException` in `CreditmemoService`.)
- **Issue:** Search synonyms not working as expected. Typically, Magento redirects users to the URL set in the search term. Currently, Magento ignores the synonym, and searches for the term that the customer enters.
- **Issue:** Magento does not enforce the value that specifies the minimum quantity of a product that a customer can add to the shopping cart. Instead of displaying a message that prompts the user to enter the required minimum, Magento permits a customer to order as few items as they'd like.
- **Issue:** When editing a product description, you cannot delete a product image across multiple stores. When you try to save your edits, Magento displays this message: **The image cannot be removed as it has been assigned to the other image role.**

System requirements

Our technology stack is built on PHP and MySQL. See [System Requirements](#).



Install the Magento software

See one of the following sections:

- [Get Magento EE using Composer](#)
- [Get Magento EE using a compressed archive](#)
- [Complete the installation](#)

Get Magento EE using Composer

This software is available from repo.magento.com. Before installing the Magento EE software using Composer, familiarize yourself with these [prerequisites](#), then run:

```
composer create-project --repository-url=https://repo.magento.com/magento/project-enterprise-edition=<version> <installation directory name>
```

where `<version>` matches the version you want (for example, `2.0.10`)

For example, to install `2.0.10` in the `magento2` directory:

```
composer create-project --repository-url=https://repo.magento.com/magento/project-enterprise-edition=2.0.10 magento2
```

Get Magento EE using a compressed archive

The following table discusses where to get the Magento software. We provide the following downloads:

- Magento EE software only
- Magento EE software with sample data (designed to help you learn Magento faster)

These packages are easy to get and install. You don't need to use Composer, all you need to do is to upload a package to your Magento server or hosted platform, unpack it, and run the web-based Setup Wizard.

Archives are available in the following formats: `.zip`, `.tar.bz2`, `.tar.gz`

To get the Magento EE archive:

1. Go to [your account on magento.com](#).
2. Log in with your Magento user name and password.
3. In the left navigation bar, click **Downloads**.



4. In the right pane, click **Magento Enterprise Edition 2.X > Full Release** or **Magento Enterprise Edition 2.X > Full Release + Sample Data** for the software.
5. Follow the instructions on your screen to complete the Magento EE download:
 - `Magento-EE-<version>.*` (without sample data)
 - `Magento-EE-<version>Samples.*` (with sample data)
6. Transfer the installation package to your development system.

Complete the installation

After you get the EE software:

1. [Set file system ownership and permissions](#).
2. Install the Magento software:
 - [Web Setup Wizard](#)
 - [Command line](#)

Upgrade from an earlier version

To upgrade to version 2.0.x from an earlier version:

- [Web Setup Wizard \(System Upgrade\)](#)
- [Command-line upgrade](#)

Migration toolkits

The [Data Migration Tool](#) helps transfer existing Magento 1.x store data to Magento 2.x. This command-line interface includes verification, progress tracking, logging, and testing functions. For installation instructions, see [Install the Data Migration Tool](#). Consider exploring or contributing to the [Magento Data Migration repository](#).

The [Code Migration Toolkit](#) helps transfer existing Magento 1.x store extensions and customizations to Magento 2.0.x. The command-line interface includes scripts for converting Magento 1.x modules and layouts.



Magento Community Edition 2.0.12

We are pleased to present Magento Community Edition 2.0.12. This release includes many functional fixes and enhancements.

Backward-incompatible changes are documented in [Magento 2.0 Backward Incompatible Changes](#).

Highlights

Magento 2.0.12 contains more than 20 functional fixes and enhancements, and one security enhancement. Look for the following highlights in this release:

- **Removal of vulnerability with the Zend framework zend_mail library.** For more information, see [New Zend Framework 1 Security Vulnerability](#).
- **Updates to the catalog, payment, and sales modules.**

Security enhancement

This release includes an important enhancement to the security of your Magento software. While there are no confirmed attacks related to the Zend framework zend_mail library vulnerability to date, certain vulnerabilities can potentially be exploited to access customer information or take over administrator sessions. We recommend that you upgrade your existing Magento software to the latest version as soon as possible.

Functional fixes

We address the following functional issues in this release.

Catalog

- You can now directly add a configurable product (with all possible options defined) to your shopping cart from the category page. Previously, you had to review a product on the product page before completing the process of adding it to your shopping cart. ([GITHUB-2574](#)), ([GITHUB-5850](#)), ([GITHUB-5882](#)), ([GITHUB-6572](#)), ([GITHUB-5558](#))
- Admin users can no longer create an empty URL key for a category. Previously, Magento let Admin users create an empty URL key, which lead to category-related errors.



- Magento now successfully saves a product even when you include an empty Custom Options row (**Products > Catalog > Custom Options**). Previously, under these conditions, Magento displayed the Invalid option value error message, and did not save the product.
- The **Match products by rule** option in the Admin interface now works as expected.
- You can now successfully match products by rule with an AND condition on Category Rule. Previously, this operation did not return any matched products.

Checkout

- Magento now displays custom address attributes on the checkout summary.
- The **Use Default Checkboxes for Custom Options** option now works as expected. Previously, the checkboxes under the option title and value title were not rendered correctly, and the feature did not work.
- Magento now displays the **Thank you for your purchase!** message after a customer successfully checks out. Previously, Magento did not display this message, even though the HTML code was present. ([GITHUB-6968](#))
- You can now create a new order from the Magento Admin. ([GITHUB-5533](#)), ([GITHUB-6855](#))

Customer

- When you add an address, new custom attributes are now displayed together, along with other address details.

Gift card

- You can now use a gift card to complete payment for an order that contains gift wrap. Previously, when you paid for an order with a gift card, the gift wrap amount remained as a balance, even when the gift card contained sufficient funds to cover the expense of gift wrapping.

Import/export

- Magento can now import additional images that are tagged with labels that contain a comma separator.



- Magento no longer deletes a product after you select the Replace option while importing a product. Previously, Magento deleted the product rather than replacing it.
- You can now use Extension Manager to uninstall extensions that were installed using Composer.

Miscellaneous

- Magento now redirects you to the Setup page as expected when you specify a particular port when installing the application using Nginx. Previously, Magento did not redirect you to the Setup page, and instead displayed this message in `var/report`: You cannot install Magento using the Setup Wizard because the Magento setup directory cannot be accessed.
- Requests to Edge Side Includes (ESI) now return data. Previously, requests to ESI did not return data because the requested block was absent in the layout.
- Admin users need view permission to the store to which the customers belong in order to see information about those customers. Previously, an Admin user could see information about customers that belonged to websites or stores for which the user did not have explicit permission to view.
- You can now change a category's display mode to Static Block Only when the flat indexer is on. Previously, Magento experienced a fatal error under these conditions.
- You can now use Composer to install Magento 2.0.x with sample data, and use `deploy:mode:set production`, without incurring an error. Previously, Magento displayed an error when you tried to use `deploy:mode:set production` under these conditions.

Payment methods

- You can now ship items to a country from which you have not authorized payment. Previously, when a customer tried to ship an order to a country from which the store was not authorized to receive payment, Magento displays this message, **No Payment method available**.

Sales

- Magento now displays an error message as expected when a user tries to add less than the specified minimum quantity of a product to his shopping cart.



- The Free Shipping method now shows up as an available option when you create an order from the Magento Admin. ([GITHUB-2939](#))
- Magento no longer assigns all orders a status of Suspected Fraud in multi-currency store configurations. ([GITHUB-4263](#))
- An Admin user with restricted permissions no longer has access to all orders.

Travis builds

- We've fixed a fatal issue that occurred if you ran Travis builds on `imagettfbbox 2.1.2`. Previously, you would receive this error:

```
PHP Fatal error: Call to undefined function
Magento\Framework\Image\Adapter\imagettfbbox() in
/home/travis/build/magento/magento2/lib/internal/Magento/Framework
/Image/Adapter/Gd2.php
```

Known issues

- **Issue:** You cannot cancel check out of an order you are making with the Worldpay payment option without emptying your shopping cart. Currently, when you cancel a checkout operation while using this payment method, Magento empties your shopping cart.
- **Issue:** Customers cannot view all images that are associated with a configurable product. The gallery does not show all the images that are associated with a configurable option. ([GITHUB-6195](#)), ([GITHUB-4101](#))
- **Issue:** You cannot use the Web Setup wizard to uninstall a module.
- **Issue:** Magento does not save a configurable product with specific attribute options under the following conditions:
 - the configurable product price is derived from its children
 - the children have been previously created and are in stock
- **Issue:** After you've removed all variations of a configurable product (**Admin > Configuration > Remove Product**), the **Add Products Manually** link is not available. **Workaround:** Retain at least one variation or use the **Choose a different product option** option.



- **Issue:** Magento saves images and videos as global values, not per store view. This can potentially result in the unwanted duplication of product images across store views.
- **Issue:** Magento does not consistently save video information for a product after you edit the information.
- **Issue:** Client-side LESS compilation is not working properly. Consequently, page load performance is not optimal.
- **Issue:** You encounter an error when you try to install Magento with the `magento/module-cms-sample-data 100.0.5` sample data set: **Error in update!**
- **Issue:** Magento does not always display the accurate price for a configurable product when running Magento in an environment that contains multiple store views and websites.
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- **Issue:** Search synonyms not working as expected. Typically, Magento redirects users to the URL set in the search term. Currently, Magento ignores the synonym, and searches for the term that the customer enters.
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- **Issue:** When editing a product description, you cannot delete a product image across multiple stores. When you try to save your edits, Magento displays this message: **The image cannot be removed as it has been assigned to the other image role.**

System requirements

Our technology stack is built on PHP and MySQL. See [System Requirements](#).



Install the Magento software

See one of the following sections:

- [Get Magento CE using Composer](#)
- [Get Magento CE using a compressed archive](#)
- [Get the Magento CE software from GitHub](#)
- [Complete the installation](#)

Get the Magento CE software using Composer

This software is available from `repo.magento.com`. Before installing the CE software using Composer, familiarize yourself with the Composer metapackage [prerequisites](#), then run

```
composer create-project --repository-url=https://repo.magento.com/magento/project-community-edition=<version> <installation directory name>
```

where `<version>` matches the version you want (for example, `2.0.10`)

For example, to install Magento CE 2.0.10 in the `magento2` directory:

```
composer create-project --repository-url=https://repo.magento.com/magento/project-community-edition=2.0.10 magento2
```

Get Magento CE using a compressed archive

The following table discusses where to get the Magento software. We provide the following downloads:

- Magento CE software only
- Magento CE software with sample data (designed to help you learn Magento faster)

These packages are easy to get and install. You don't need to use Composer, all you need to do is to upload a package to your Magento server or hosted platform, unpack it, and run the web-based Setup Wizard.

Archives are available in the following formats: `.zip`, `.tar.bz2`, `.tar.gz`

To get the Magento CE software archive:



1. Go to <http://magento.com/download>.
2. Choose either the software or the software and sample data:
 - `Magento-CE-<version>.*` (without sample data)
 - `Magento-CE-<version>+Samples.*` (with sample data)

`<version>` is the three-digit release number (for example, 2.0.7, 2.1.0, and so on).

Get the Magento CE software from GitHub

If you clone the Magento 2 GitHub repository, you *cannot* use the Magento software in a production environment. You cannot have a live store that accepts orders and so on.

Before proceeding, please familiarize yourself with [these prerequisites](#), then run

```
git clone git@github.com:magento/magento2.git
```

```
cd magento2
```

```
git checkout tags/<version>[-b<version>]
```

where

`<version>` matches the version you want (for example, 2.0.10)

`[-b<version>]` optionally checks out a new branch.

Complete the installation

After you get the CE software:

1. [Set file system ownership and permissions](#).
2. Install the Magento software:
 - [Web Setup Wizard](#)
 - [Command line](#)

Upgrade from an earlier version

To upgrade to version 2.0.x from an earlier version:

- [Web Setup Wizard \(System Upgrade\)](#)
- [Command-line upgrade](#)



Magento Community Edition 1.9.3.2

This patch addresses the following issues:

- Removal of vulnerability with the Zend framework zend_mail library. For more information, see [Magento Security Center](#).
- Updated the copyright year to 2017.

Important upgrade information

Important: Use CE 1.9.3.0 or later for *all new CE installations and upgrades* to get the latest fixes, features, and security updates.



Magento Enterprise Edition 1.14.3.2

This patch addresses the following issues:

- Removal of vulnerability with the Zend framework `zend_mail` library. For more information, see [Magento Security Center](#).
- Updated the copyright year to 2017.

Important upgrade information

Important: Use EE 1.14.3.0 or later for *all new EE installations and upgrades* to get the latest fixes, features, and security updates.