**Hardware software requirements are as Follows:**

**Operating systems (Linux x86-64)**

Linux distributions such as RedHat Enterprise Linux (RHEL), CentOS, Ubuntu, Debian, and so on

**Composer (latest stable version)**

Composer is required for developers who wish to contribute to the Magento 2 codebase or anyone who wishes to develop Magento extensions

**Web servers**

* [Apache 2.2 or 2.4](http://httpd.apache.org/download.cgi)

In addition, the apache mod\_rewrite module must be enabled. mod\_rewrite enables the server to perform URL rewriting. For more information, see [our Apache documentation](http://devdocs.magento.com/guides/v2.0/install-gde/prereq/apache.html).

* nginx 1.8 (or latest stable version)

**Database**

MySQL 5.6 (Oracle or Percona)

**PHP**

* 5.6.x
* 5.5.x
* Magento has been tested with PHP 7.0 [Release Candidate 7](http://php.net/archive/2015.php) (currently the most recent)
* There is a [known PHP issue](https://bugs.php.net/bug.php?id=66985) with versions:
  + 5.5.10–5.5.16
  + 5.6.0

This issue prevents users from being able to set their timezones to Greenwich time and several other time zones.

To work around the issue, see [Known issue with certain PHP versions](http://devdocs.magento.com/guides/v2.0/install-gde/trouble/tshoot_install-issues.html#known-devrc-php).

* Magento no longer supports PHP 5.4.

Documentation: [CentOS](http://devdocs.magento.com/guides/v2.0/install-gde/prereq/php-centos.html), [Ubuntu](http://devdocs.magento.com/guides/v2.0/install-gde/prereq/php-ubuntu.html)

**Required PHP extensions:**

* [PDO/MySQL](http://php.net/manual/en/ref.pdo-mysql.php)
* [mbstring](http://php.net/manual/en/book.mbstring.php)
* [mcrypt](http://php.net/manual/en/book.mcrypt.php)
* [mhash](http://php.net/manual/en/book.mhash.php)
* [SimpleXML](http://php.net/manual/en/book.simplexml.php)
* [curl](http://php.net/manual/en/book.curl.php)
* [xsl](http://php.net/manual/en/book.xsl.php)
* [gd](http://php.net/manual/en/book.image.php), [ImageMagick 6.3.7](http://php.net/manual/en/book.imagick.php" \t "_blank) (or later) or both
* [soap](http://php.net/manual/en/book.soap.php)
* [intl](http://php.net/manual/en/book.intl.php)
* [bc-math](http://php.net/manual/en/book.bc.php) http://devdocs.magento.com/common/images/ee-only_small.png
* [openssl](http://php.net/manual/en/book.openssl.php)

The PHP openssl extension is installed automatically in some cases. To check to see whether you have it or not, use a [phpinfo.php](http://devdocs.magento.com/guides/v2.0/install-gde/prereq/optional.html" \l "install-optional-phpinfo) page.

**SSL**

* A valid security certificate is required for HTTPS.
* Self-signed SSL certificates are not supported.

**Mail server**

Mail Transfer Agent (MTA) or an SMTP server

* + Apache Solr

[Solr search](http://devdocs.magento.com/guides/v2.0/config-guide/solr/solr-overview.html) can be used as a search provider. Available for Magento Enterprise Edition (EE) only.

* + RabbitMQ

[RabbitMQ](http://devdocs.magento.com/guides/v2.0/config-guide/mq/rabbitmq-overview.html) can be used to publish messages to queue and to define the consumers that receive the messages asynchronously. Available for Magento EE only.

* + Three master databases

These [master databases](http://devdocs.magento.com/guides/v2.0/config-guide/multi-master/multi-master.html) provide scalability advantages for different functional areas of the Magento application: checkout, orders, and product data. Available for Magento EE only.

**Optional but recommended:**

* [php\_xdebug2.2.0](http://xdebug.org/download.php) or later (development environments only; can have an adverse effect on performance)

There is a known issue with xdebug that can affect Magento installations or access to the storefront or Magento Admin after installation.

For details, see [Known issue with xdebug](http://devdocs.magento.com/guides/v2.0/install-gde/trouble/tshoot_install-issues.html#known-devbeta-xdebug).

* PHPUnit (as a command-line tool) 4.1 or later