



Making Your Life Easier with the Magento 2 CLI

@mbalparda - #MageTitansIT

Miguel Balparda



- ✈ Full time traveller
- 👉 Magento Master 2016
- 🔊 Meet Magento Speaker
- 👷 Top 4% Magento StackExchange
- 📖 Magento Certified Solution Specialist
- 🍔 BBQ Certified Solution Specialist
- ☐ Magento 2 community gatekeeper

```
[phpseven@sip4-888 public_html]$ php bin/magento list
```

Magento CLI version 2.1.4

Usage:

command [options] [arguments]

Options:

--help (-h) Display this help message
--quiet (-q) Do not output any message
--verbose (-v|vv|vvv) Increase the verbosity of messages: 1 for normal output, 2 for more verbose output and 3 for debug
--version (-V) Display this application version
--ansi Force ANSI output
--no-ansi Disable ANSI output
--no-interaction (-n) Do not ask any interactive question

Available commands:

help	Displays help for a command
list	Lists commands
admin	
admin:user:create	Creates an administrator
admin:user:unlock	Unlock Admin Account
app	
app:config:dump	Create dump of application
cache	
cache:clean	Cleans cache type(s)
cache:disable	Disables cache type(s)
cache:enable	Enables cache type(s)
cache:flush	Flushes cache storage used by cache type(s)
cache:status	Checks cache status
catalog	
catalog:images:resize	Creates resized product images
catalog:product:attributes:cleanup	Removes unused product attributes.
cron	
cron:run	Runs jobs by schedule
customer	
customer:hash:upgrade	Upgrade customer's hash according to the latest algorithm
deploy	
deploy:mode:set	Set application mode.
deploy:mode:show	Displays current application mode.

```
.ssh — phpseven@sip4-888:~/public_html — ssh -p 22005 -i id_rsa mbalparda@login.otr.nexcess.net — 140x39
[phpseven@sip4-888 public_html]$ php bin/magento setup:install --base-url=http://127.0.0.1/magento2/ --db-host=localhost --db-name=magento --db-user=magento --db-password=magento --admin-firstname=Magento --admin-lastname=User --admin-email=user@example.com --admin-user=admin --admin-password=admin123 --language=en_US
SQLSTATE[HY000] [1045] Access denied for user 'magento'@'localhost' (using password: YES)
```

```
[InvalidArgumentException]
Parameter validation failed
```

```
setup:install [--backend-frontname="..."] [--key="..."] [--session-save="..."] [--definition-format="..."] [--db-host="..."] [--db-name="..."] [--db-user="..."] [--db-engine="..."] [--db-password="..."] [--db-prefix="..."] [--db-model="..."] [--db-init-statements="..."] [--skip-db-validation] [--http-cache-hosts="..."] [--base-url="..."] [--language="..."] [--timezone="..."] [--currency="..."] [--use-rewrites="..."] [--use-secure="..."] [--base-url-secure="..."] [--use-secure-admin="..."] [--admin-use-security-key="..."] [--admin-user="..."] [--admin-password="..."] [--admin-email="..."] [--admin-firstname="..."] [--admin-lastname="..."] [--cleanup-database] [--sales-order-increment-prefix="..."] [--use-sample-data] [--magento-init-params="..."]
```

```
[phpseven@sip4-888 public_html]$
```

```

[phpseven@sip4-888 public_html]$ php bin/magento setup:install --help
Usage:
  setup:install [--backend-frontendname="..."] [--key="..."] [--session-save="..."] [--definition-format="..."] [--db-host="..."] [--db-name="..."]
  [--db-user="..."] [--db-engine="..."] [--db-password="..."] [--db-prefix="..."] [--db-init-statements="..."] [-s|--skip-db-validation]
  [--http-cache-hosts="..."] [--base-url="..."] [--language="..."] [--timezone="..."] [--currency="..."] [--use-rewrites="..."]
  [--use-secure="..."] [--base-url-secure="..."] [--use-secure-admin="..."] [--admin-use-security-key="..."] [--admin-user="..."] [--admin-password="..."]
  [--admin-email="..."] [--admin-firstname="..."] [--admin-lastname="..."] [--cleanup-database] [--sales-order-increment-prefix="..."]
  [--use-sample-data] [--magento-init-params="..."]

Options:
  --backend-frontendname      Backend frontendname (will be autogenerated if missing)
  --key                       Encryption key
  --session-save              Session save handler
  --definition-format         Type of definitions used by Object Manager
  --db-host                   Database server host
  --db-name                   Database name
  --db-user                   Database server username
  --db-engine                 Database server engine
  --db-password               Database server password
  --db-prefix                 Database table prefix
  --db-model                  Database type
  --db-init-statements        Database initial set of commands
  --skip-db-validation (-s)   If specified, then db connection validation will be skipped
  --http-cache-hosts          http Cache hosts
  --base-url                  URL the store is supposed to be available at
  --language                  Default language code
  --timezone                  Default time zone code
  --currency                  Default currency code
  --use-rewrites              Use rewrites
  --use-secure                Use secure URLs. Enable this option only if SSL is available.
  --base-url-secure           Base URL for SSL connection
  --use-secure-admin          Run admin interface with SSL
  --admin-use-security-key    Whether to use a "security key" feature in Magento Admin URLs and forms
  --admin-user                (Required) Admin user
  --admin-password            (Required) Admin password
  --admin-email               (Required) Admin email
  --admin-firstname           (Required) Admin first name
  --admin-lastname            (Required) Admin last name
  --cleanup-database          Cleanup the database before installation

```

```
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[phpseven@sip4-888 public_html]$ php bin/magento cache:status
Current status:
    config: 1
    layout: 1
    block_html: 1
    collections: 1
    reflection: 1
    db_ddl: 1
    eav: 1
    customer_notification: 1
    full_page: 1
    config_integration: 1
    config_integration_api: 1
    translate: 1
    config_webservice: 1
[phpseven@sip4-888 public_html]$
```



```
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[phpseven@sip4-888 public_html]$ php bin/magento cache:flush
Flushed cache types:
config
layout
block_html
collections
reflection
db_ddl
eav
customer_notification
full_page
config_integration
config_integration_api
translate
config_webservice
[phpseven@sip4-888 public_html]$ php bin/magento cache:clean
Cleaned cache types:
config
layout
block_html
collections
reflection
db_ddl
eav
customer_notification
full_page
config_integration
config_integration_api
translate
config_webservice
[phpseven@sip4-888 public_html]$
```



Clean vs Flush

Cleaning a cache type deletes all items from enabled Magento cache types only.

In other words, this option does not affect other processes or applications because it cleans only the cache that Magento uses.

Disabled cache types are not cleaned.

Flushing a cache type purges the cache storage, which might affect other processes applications that are using the same storage.

Flush cache types if you've already tried cleaning the cache and you're still having issues that you cannot isolate.


```
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[[phpseven@sip4-888 public_html]$ php bin/magento cache:disable translate db_ddl
Changed cache status:
    db_ddl: 1 -> 0
    translate: 1 -> 0
[[phpseven@sip4-888 public_html]$ php bin/magento cache:enable translate db_ddl
Changed cache status:
    db_ddl: 0 -> 1
    translate: 0 -> 1
Cleaned cache types:
db_ddl
translate
[[phpseven@sip4-888 public_html]$
```

```
.ssh — phpseven@sip4-888:~/public_html — ssh -p 22005 -i id_rsa mbalparda@login.otr.nexcess.net — 140x39

[phpseven@sip4-888 public_html]$ php bin/magento admin:user:create --admin-user='new-admin' --admin-password='!admin123!' --admin-email='info@domain.com' --admin-firstname='Jon' --admin-lastname='Doe'
Created Magento administrator user named new-admin
[phpseven@sip4-888 public_html]$ php bin/magento admin:user:unlock new-admin
The user account "new-admin" was not locked or could not be unlocked
[phpseven@sip4-888 public_html]$ php bin/magento admin:user:create --admin-user='new-admin' --admin-password='!admin1234!' --admin-email='info@domain.com'
First Name is a required field.
Last Name is a required field.
[phpseven@sip4-888 public_html]$
[phpseven@sip4-888 public_html]$ php bin/magento admin:user:create --admin-user='new-admin' --admin-password='!NEWPASSWORD!' --admin-email='info@domain.com' --admin-firstname='Jon' --admin-lastname='Doe'
Your password must include both numeric and alphabetic characters.
[phpseven@sip4-888 public_html]$ php bin/magento admin:user:create --admin-user='new-admin' --admin-password='!123NEWPASSWORD!' --admin-email='info@domain.com' --admin-firstname='Jon' --admin-lastname='Doe'
Created Magento administrator user named new-admin
[phpseven@sip4-888 public_html]$
```

```
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[phpseven@sip4-888 public_html]$ php bin/magento indexer:info
design_config_grid           Design Config Grid
customer_grid               Customer Grid
catalog_category_product    Category Products
catalog_product_category    Product Categories
catalog_product_price       Product Price
catalog_product_attribute   Product EAV
catalogsearch_fulltext      Catalog Search
cataloginventory_stock      Stock
catalogrule_rule            Catalog Rule Product
catalogrule_product         Catalog Product Rule
[phpseven@sip4-888 public_html]$ php bin/magento indexer:status
Design Config Grid:         Ready
Customer Grid:              Ready
Category Products:         Ready
Product Categories:         Ready
Product Price:              Ready
Product EAV:                Ready
Catalog Search:             Ready
Stock:                      Ready
Catalog Rule Product:       Ready
Catalog Product Rule:       Ready
[phpseven@sip4-888 public_html]$ php bin/magento indexer:reindex
Design Config Grid index has been rebuilt successfully in 00:00:00
Customer Grid index has been rebuilt successfully in 00:00:00
Category Products index has been rebuilt successfully in 00:00:00
Product Categories index has been rebuilt successfully in 00:00:00
Product Price index has been rebuilt successfully in 00:00:00
Product EAV index has been rebuilt successfully in 00:00:00
Catalog Search index has been rebuilt successfully in 00:00:00
Stock index has been rebuilt successfully in 00:00:00
Catalog Rule Product index has been rebuilt successfully in 00:00:00
Catalog Product Rule index has been rebuilt successfully in 00:00:00
[phpseven@sip4-888 public_html]$
```

```
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[phpseven@sip4-888 public_html]$ php bin/magento indexer:set-mode schedule catalog_product_category
Index mode for Indexer Product Categories was changed from 'Update on Save' to 'Update by Schedule'
[phpseven@sip4-888 public_html]$ php bin/magento indexer:show-mode
Design Config Grid:      Update on Save
Customer Grid:           Update on Save
Category Products:       Update on Save
Product Categories:      Update by Schedule
Product Price:           Update on Save
Product EAV:             Update on Save
Catalog Search:          Update on Save
Stock:                   Update on Save
Catalog Rule Product:    Update on Save
Catalog Product Rule:    Update on Save
[phpseven@sip4-888 public_html]$
```

```
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[phpseven@sip4-888 public_html]$ php bin/magento module:status
List of enabled modules:
Magento_Store
Magento_AdvancedPricingImportExport
Magento_Directory
Magento_Theme
Magento_Backend
Magento_Backup
Magento_Eav
Magento_Customer
Magento_BundleImportExport
Magento_AdminNotification
Magento_CacheInvalidate
Magento_Indexer
Magento_Cms
Magento_CatalogImportExport
Magento_Catalog
Magento_Rule
Magento_Msrp
Magento_Search
Magento_Bundle
Magento_Quote
Magento_CatalogUrlRewrite
Magento_Widget
Magento_SalesSequence
Magento_CheckoutAgreements
Magento_Payment
Magento_SampleData
Magento_CmsUrlRewrite
Magento_Config
Magento_ConfigurableImportExport
Magento_Downloadable
Magento_CatalogSearch
Magento_Contact
Magento_Cookie
Magento_Cron
Magento_CurrencySymbol
Magento_User
Magento_CustomerImportExport
```



```
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[phpseven@sip4-888 public_html]$ php bin/magento module:enable Inchoo_Console
The following modules have been enabled:
- Inchoo_Console

To make sure that the enabled modules are properly registered, run 'setup:upgrade'.
Cache cleared successfully.
Generated classes cleared successfully. Please run the 'setup:di:compile' command to generate classes.
Info: Some modules might require static view files to be cleared. To do this, run 'module:enable' with the --clear-static-content option to clear them.

[phpseven@sip4-888 public_html]$ php bin/magento setup:upgrade
Cache cleared successfully
File system cleanup:
/chroot/home/phpseven/php7.magento2-demo.nexcess.net/html/var/generation/Composer
/chroot/home/phpseven/php7.magento2-demo.nexcess.net/html/var/generation/Magento
/chroot/home/phpseven/php7.magento2-demo.nexcess.net/html/var/generation/Symfony
The directory '/chroot/home/phpseven/php7.magento2-demo.nexcess.net/html/var/di/' doesn't exist - skipping cleanup
Updating modules:
Schema creation/updates:
Module 'Inchoo_Console':
Module 'Magento_Store':
Module 'Magento_AdvancedPricingImportExport':
Module 'Magento_Directory':
Module 'Magento_Theme':
Module 'Magento_Backend':
Module 'Magento_Backup':
Module 'Magento_Eav':
Module 'Magento_Customer':
Module 'Magento_BundleImportExport':
Module 'Magento_AdminNotification':
Module 'Magento_CacheInvalidate':
Module 'Magento_Indexer':
Module 'Magento_Cms':
Module 'Magento_CatalogImportExport':
Module 'Magento_Catalog':
Module 'Magento_Rule':
Module 'Magento_Msrp':
Module 'Magento_Search':
Module 'Magento_Bundle':
Module 'Magento_Quote':
```

```
.ssh — phpseven@sip4-888:~/public_html — ssh -p 22005 -i id_rsa mbalparda@login.otr.nexcess.net — 140x39

[phpseven@sip4-888 public_html]$ php bin/magento maintenance:status
Status: maintenance mode is not active
List of exempt IP-addresses: none

[phpseven@sip4-888 public_html]$ php bin/magento maintenance:enable --ip=127.0.0.1 --ip=127.0.0.2
Enabled maintenance mode
Set exempt IP-addresses: 127.0.0.1, 127.0.0.2

[phpseven@sip4-888 public_html]$ php bin/magento maintenance:status
Status: maintenance mode is active
List of exempt IP-addresses: 127.0.0.1, 127.0.0.2

[phpseven@sip4-888 public_html]$ php bin/magento maintenance:disable
Disabled maintenance mode

[phpseven@sip4-888 public_html]$ php bin/magento maintenance:status
Status: maintenance mode is not active
List of exempt IP-addresses: 127.0.0.1, 127.0.0.2

[phpseven@sip4-888 public_html]$ php bin/magento maintenance:allow-ips 127.0.0.3 127.0.0.4
Invalid IP 127.0.0.3

[phpseven@sip4-888 public_html]$ php bin/magento maintenance:allow-ips 127.0.0.3 127.0.0.4
Set exempt IP-addresses: 127.0.0.3, 127.0.0.4

[phpseven@sip4-888 public_html]$ php bin/magento maintenance:status
Status: maintenance mode is not active
List of exempt IP-addresses: 127.0.0.3, 127.0.0.4

[phpseven@sip4-888 public_html]$ php bin/magento maintenance:enable
Enabled maintenance mode

[phpseven@sip4-888 public_html]$ php bin/magento maintenance:status
Status: maintenance mode is active
List of exempt IP-addresses: 127.0.0.3, 127.0.0.4

[phpseven@sip4-888 public_html]$
```


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Magento



Default mode

Enables you to deploy the Magento application on a single server without changing any settings. However, default mode is not optimized for production.

- Symlinks to static view files are published to the `pub/static` directory
- Exceptions are not displayed to the user; instead, exceptions are written to log files.
- Hides custom `X-Magento-*` HTTP request and response headers



Developer mode

Intended for development only, this mode:

- Symlinks to static view files are published to the `pub/static` directory
- Provides verbose logging
- Enables automatic code compilation
- Enables enhanced debugging
- Shows custom `X-Magento-*` HTTP request and response headers
- Results in the slowest performance (because of the preceding)



Production mode

Intended for deployment on a production system.

- Exceptions are not displayed to the user, exceptions are written to logs only
- Static view files are served from `pub/static` only.
- Static view files are served from `pub/static` only.
- New or updated files are not written to the file system.

```

[phpseven@sip4-888 public_html]$ php bin/magento --help setup:backup
Usage:
  setup:backup [--code] [--media] [--db] [--magento-init-params="..."]

Options:
  --code           Take code and configuration files backup (excluding temporary files)
  --media          Take media backup
  --db             Take complete database backup
  --magento-init-params Add to any command to customize Magento initialization parameters
                   For example: "MAGE_MODE=developer&MAGE_DIRS[base][path]=/var/www/example.com&MAGE_DIRS[cache][path]=/var/tmp/cache"
  --help (-h)      Display this help message
  --quiet (-q)     Do not output any message
  --verbose (-v|vv|vvv) Increase the verbosity of messages: 1 for normal output, 2 for more verbose output and 3 for debug
  --version (-V)   Display this application version
  --ansi           Force ANSI output
  --no-ansi        Disable ANSI output
  --no-interaction (-n) Do not ask any interactive question

[phpseven@sip4-888 public_html]$ php bin/magento setup:backup --code
Enabling maintenance mode
Code backup is starting...
Code backup filename: 1490715625_filesystem_code.tgz (The archive can be uncompressed with 7-Zip on Windows systems)
Code backup path: /chroot/home/phpseven/php7.magento2-demo.nexcess.net/html/var/backups/1490715625_filesystem_code.tgz
[SUCCESS]: Code backup completed successfully.
Disabling maintenance mode
[phpseven@sip4-888 public_html]$ php bin/magento info:backup:list
Showing backup files in /chroot/home/phpseven/php7.magento2-demo.nexcess.net/html/var/backups.
+-----+-----+
| Backup Filename | Backup Type |
+-----+-----+
| 1490715625_filesystem_code.tgz | code        |
+-----+-----+

[phpseven@sip4-888 public_html]$ php bin/magento setup:rollback --code-file="1490715625_filesystem_code.tgz"
Enabling maintenance mode
You are about to remove current code and/or database tables. Are you sure?[y/N]y
Unable to make rollback because not all files are writable
Disabling maintenance mode
[phpseven@sip4-888 public_html]$

```



Create your own command

- https://bitbucket.org/lurajcevi/inchoo_console/src
- Use DI to inject our command
- Only 2 methods: configure and execute
- `php bin/magento module:enable Inchoo_Console`
- `php bin/magento setup:upgrade`
- ???
- Profit!

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```
1 <?xml version="1.0"?>
2 <config xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="urn:magento:framework:ObjectManager/etc/config.xsd">
3   <type name="Magento\Framework\Console\CommandList">
4     <arguments>
5       <argument name="commands" xsi:type="array">
6         <item name="hello_world" xsi:type="object">
          Inchoo\Console\Console\Command\HelloWorldCommand</item>
7       </argument>
8     </arguments>
9   </type>
10 </config>
```

Line 10, Column 10

Tab Size: 4

PHP

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```
1 <?php
2 class CommandList implements CommandListInterface {
3     /**
4      * @var string[]
5      */
6     protected $commands;
7
8     /**
9      * Constructor
10     *
11     * @param array $commands
12     */
13     public function __construct(array $commands = [])
14     {
15         $this->commands = $commands;
16     }
17
18     /**
19     * {@inheritdoc}
20     */
21     public function getCommands()
22     {
23         return $this->commands;
24     }
25 }
```

Line 2, Column 55

Tab Size: 4

PHP

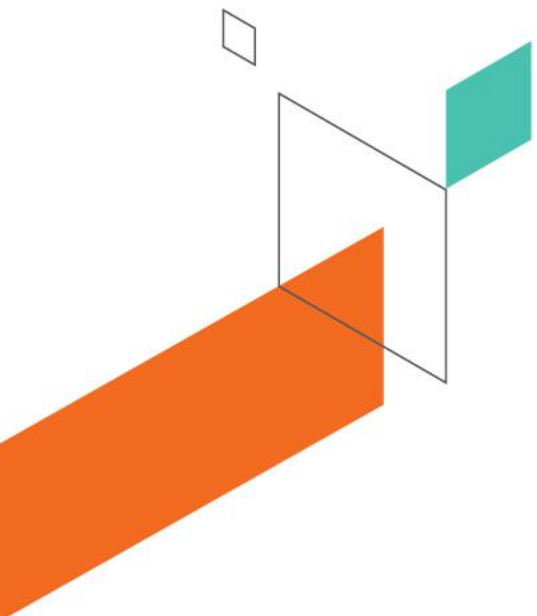
```
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1  <?php
2  /**
3   * Copyright © 2015 Magento. All rights reserved.
4   * See COPYING.txt for license details.
5   */
6  namespace Inchoo\Console\Console\Command;
7
8
9  use Symfony\Component\Console\Command\Command;
10 use Symfony\Component\Console\Output\OutputInterface;
11 use Symfony\Component\Console\Input\InputInterface;
12
13 /**
14  * An Abstract class for Indexer related commands.
15  */
16 class HelloWorldCommand extends Command
17 {
18
19     protected function configure()
20     {
21         $this->setName('inchoo:hello_world')->setDescription('Prints hello world.');
```

Line 5, Column 8

Tab Size: 4

PHP



Making Your Life Easier with the Magento 2 CLI

Questions?