**Magento 2 issues in GitHub**

1. **Magento 2 Admin Page Not Loading**

**Issue:** The Magento 2 admin page may sometimes fail to load due to issues with file permissions, incorrect base URLs, or incomplete installation.  
  
 **Error:**

**Exception #0 (Magento\Framework\Exception\FileSystemException): Cannot write to directory /var/www/html/magento2/var/generation. Access forbidden.**

**Solution:**

* **File Permissions:** Ensure correct file permissions for directories and files:

find var generated vendor pub/static pub/media app/etc -type f -exec chmod g+w {} +

find var generated vendor pub/static pub/media app/etc -type d -exec chmod g+ws {} +

* **Check Base URLs:** Update base URLs in the database if needed:

UPDATE core\_config\_data SET value = 'http://yourdomain.com/' WHERE path = 'web/unsecure/base\_url';

UPDATE core\_config\_data SET value = 'https://yourdomain.com/' WHERE path = 'web/secure/base\_url';

* **Recompile and Clean Cache:**

php bin/magento setup:di:compile

php bin/magento cache:clean

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2. **404 Error on Category Pages After Installation**

**Issue:** Category pages may return a 404 error after a fresh installation or migration.

**Error:**

404 Error: Page Not Found The page you requested was not found.

**Solution:**

* **Reindex:** Run the following commands:

php bin/magento indexer:reindex

* Flush Cache: php bin/magento cache:flush
* **Check URL Rewrites:** Navigate to Marketing > SEO & Search > URL Rewrites and check if the correct URL rewrites exist for categories.

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3. **Product Image Not Showing in Frontend**

**Issue:** Product images not showing on the front end could be related to incorrect folder permissions or image cache issues.

**Error:** GET [http://mage246/pub/media/catalog/product/cache/small\_image/300x300/imagename.jpg](http://yourdomain.com/pub/media/catalog/product/cache/small_image/300x300/imagename.jpg) 404 (Not Found)

**Solution:**

* **Folder Permissions:** Ensure correct permissions for the pub/media folder:

chmod -R 775 pub/media

* **Image Cache Flush:** Clear the catalog image cache:

php bin/magento catalog:images:resize

php bin/magento cache:clean

* **Check Image Roles:** Ensure that product images have been assigned appropriate roles (Base, Small, Thumbnail) in the product configuration.

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4. **Magento 2 Crashing with Memory Errors**

**Issue:** Magento 2 processes, like indexing and compiling, may crash due to insufficient memory limits.

**Error:**  Fatal error: Allowed memory size of 536870912 bytes exhausted (tried to allocate 20480 bytes) in /var/www/html/magento/vendor/magento/framework/View/Element/Template/File/Validator.php on line 139

**Solution:**

* **Increase PHP Memory Limit:** Edit the php.ini file and set the memory limit:

memory\_limit = 2G

* **Use the CLI for Heavy Operations:** Perform tasks like reindexing and cache cleaning through the command line rather than the admin interface.
* **Optimize Environment:** Consider increasing server resources (RAM, CPU) if you frequently encounter memory issues.

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5. **Class Not Found Error During Compilation**

**Issue:** The error "Class not found" during di:compile is usually caused by incorrect or missing class references in custom modules.

**Error:**

Fatal error: Uncaught Error: Class 'Tychons\CustomModule\Model\SomeClass' not found in /var/www/html/magento/app/code/Tychons/CustomModule/Controller/Index/Index.php:45 Stack trace: #0 /var/www/html/magento/vendor/magento/framework/App/Action/Action.php(107): Tychons\CustomModule\Controller\Index\Index->execute() #1 /var/www/html/magento/vendor/magento/framework/App/FrontController.php(159): Magento\Framework\App\Action\Action->dispatch(Object(Magento\Framework\App\Request\Http)) #2 /var/www/html/magento/vendor/magento/framework/Interception/Interceptor.php(58): Magento\Framework\App\FrontController->dispatch(Object(Magento\Framework\App\Request\Http)) #3 {main} thrown in /var/www/html/magento/app/code/Tychons/CustomModule/Controller/Index/Index.php on line 45

Solution:

* **Check Namespaces:** Ensure correct namespace declarations in the module files.
* **Check Autoloading Configuration:** Verify the presence of correct autoload configuration in the composer.json file:

"autoload": {

"psr-4": {

"Vendor\\Module\\": "app/code/Vendor/Module"

}

}

* **Delete Generated Code:** Remove the generated/ directory and recompile:

rm -rf generated/\*

php bin/magento setup:di:compile

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6. **Incorrect Pricing Display Due to Cache Issues**

**Issue:**

Cached pricing data might not reflect updates made to product pricing, leading to incorrect pricing displays.

**Error:**

[2024-09-15 11:12:13] main.CRITICAL: Unable to write cache file /var/www/html/magento/var/cache/ ...

[2024-09-15 10:23:45] main.WARNING: Cache type "full\_page" is invalidated but not refreshed. []

**Solution:**

* **Invalidate Cache:** Clear the cache after modifying product prices:

php bin/magento cache:clean

* **Reindex Pricing:** Ensure pricing data is indexed correctly:

php bin/magento indexer:reindex catalog\_product\_price

* **Check Store Configuration:** If multiple stores are set up, ensure that the correct store is configured for product price updates.

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7. **Slow Magento 2 Performance**

**Issue:**

Magento 2 can be slow, especially with large catalogs or on shared hosting environments.

**Error:**

[2024-09-16 14:20:10] main.DEBUG: SQL Query took 5.0032 seconds to execute: SELECT \* FROM catalog\_product\_entity WHERE ...

Fatal error: Maximum execution time of 30 seconds exceeded in /var/www/html/magento/vendor/magento/module-catalog/Model/ProductRepository.php on line 789

[2024-09-16 13:15:42] main.WARNING: Cache type "config" is invalidated but not refreshed. []

**Solution:**

* **Enable Flat Catalog:** Go to Stores > Configuration > Catalog > Catalog > Storefront and enable **Use Flat Catalog Product** and **Use Flat Catalog Category**.
* **Enable Varnish Cache:** Configure Varnish Cache for caching static content:

php bin/magento setup:config:set --http-cache-hosts=127.0.0.1:6081

* **Enable Production Mode:** Set Magento to production mode:

php bin/magento deploy:mode:set production

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8. **Magento 2 Module Conflicts**

**Issue:** Conflicts between third-party extensions may result in unexpected behavior or fatal errors.

**Error:** Fatal error: Uncaught Error: Cannot instantiate interface Vendor\Module\Api\SomeInterface in /var/www/html/magento/vendor/magento/framework/ObjectManager/Factory/Dynamic/Developer.php:73

**Solution:**

* **Identify Conflicts:** Use the following command to check for module conflicts:

php bin/magento setup:di:compile

* **Merge Configurations:** If conflicts arise in di.xml or routes.xml, manually merge the configurations into one.
* **Disable Conflicting Extensions:** Temporarily disable extensions to identify the conflict:

php bin/magento module:disable Vendor\_Module

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9. **Issues with Magento 2 Email Not Sending**

**Issue****:** Emails (order confirmation, shipping, etc.) are not sent from Magento 2 due to improper mail server configuration.

**Error:**

[2024-09-16 14:30:10] main.CRITICAL: Exception message: Unable to send mail: Unknown error

#0 /var/www/html/magento/vendor/magento/framework/Mail/Transport.php(115): Zend\_Mail\_Transport\_Abstract->sendMail()

**Solution:**

* **Check Mail Server Configuration:** Ensure correct SMTP settings under Stores > Configuration > Advanced > System > Mail Sending Settings
* **Use a Third-Party SMTP Extension:** Install an SMTP extension (e.g., Mageplaza SMTP) to handle email sending.
* **Verify Cron Jobs:** Ensure Magento cron jobs are running correctly:

crontab –l

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10. **Magento 2 Cache Not Refreshing Properly**

**Issue****:** After modifying code or configurations, Magento’s cache may not refresh as expected.

**Error:**

[2024-09-16 16:12:55] main.CRITICAL: Exception: Warning: unlink(/var/www/html/magento/var/cache/mage-tags/mage---e1f\_FILE.cache): Permission denied in /var/www/html/magento/vendor/magento/framework/Filesystem/Driver/File.php on line 381

[2024-09-16 17:10:35] main.CRITICAL: Redis server went away {"exception":"[object] (CredisException(code: 0): Redis server went away at /var/www/html/magento/vendor/colinmollenhour/credis/Client.php:999)"} []

**Solution:**

* **Manually Refresh Cache:** Run the following to refresh caches manually:

php bin/magento cache:clean

php bin/magento cache:flush

* **Check File Permissions:** Ensure the var/cache and var/page\_cache directories have appropriate permissions:

chmod -R 775 var/cache var/page\_cache

* **Use Redis for Caching:** Improve cache management by using Redis for backend caching:

php bin/magento setup:config:set --cache-backend=redis --cache-backend-redis-server=127.0.0.1 --cache-backend-redis-port=6379