

MAGENTO 2.1 VS MAGENTO 2.0

WHAT MAKES THE LATEST EDITION MORE VERSATILE?



The release of Magento 2.0 in November 2015 was a watershed moment, with the already popular e-commerce platform getting a host of improvements. The spate of server side and client side enhancements, with new and improved features such as full page caching, effective image compression, improved search and quality, automated plagiarism scans, and better coding standards, make it possible to roll out highly powerful and fast web stores, in a highly efficient way.

CONTENTS

01

*WHAT'S NEW IN MAGENTO 2.1 OVER
MAGENTO 2.0?*

02

FOCUS ON SPEED WITH SCALABILITY

03

*MODULAR ARCHITECTURE AND
RESPONSIVE DESIGN*

03

BETTER CODE QUALITY

04

SUPERIOR ADMIN PANEL

04

BETTER PRODUCT DISPLAY CAPABILITIES

05

SMOOTHER CHECKOUTS

05

IMPROVED SECURITY

06

SIMPLIFIED PCI COMPLIANCE

06

BETTER SEO CAPABILITIES

07

ABOUT SUYATI

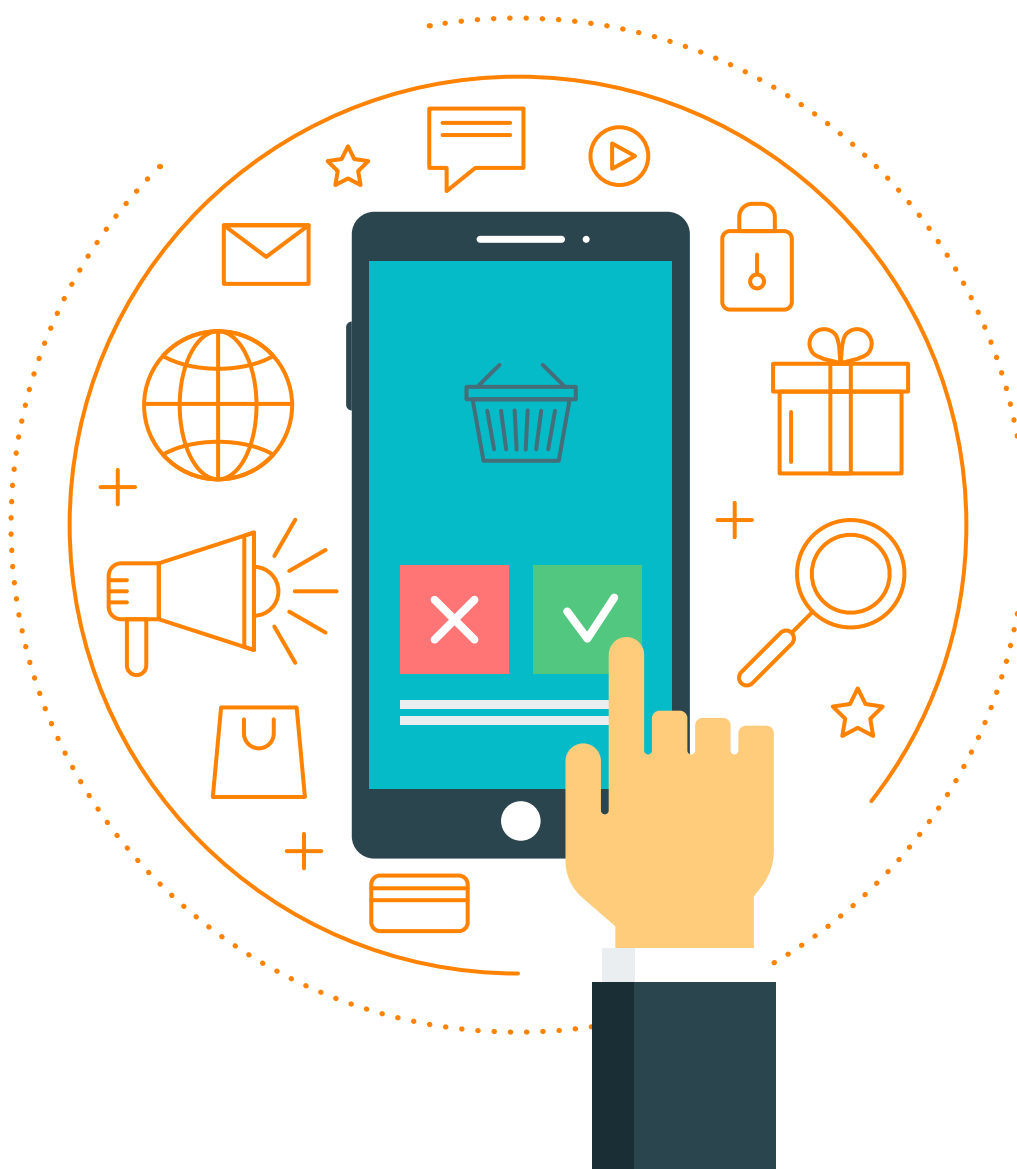
WHAT'S NEW IN MAGENTO 2.1 OVER MAGENTO 2.0?

The release of Magento 2.0 in November 2015 was a watershed moment, with the already popular e-commerce platform getting a host of improvements. The spate of server side and client side enhancements, with new and improved features such as full page caching, effective image compression, improved search and quality, automated plagiarism scans, and better coding standards, make it possible to roll out highly powerful and fast web stores, in a highly efficient way.

Magento, however, is not resting on its laurels. Close-on-heels of Magento 2.0 is the new Magento 2.1, which builds on the

improvements of Magento 2.0 and offers several new improvements in its own right. Magento 2.1, released in June 2016, also does a good job of eradicating the several bugs that emerged as developers and customers started using Magento 2.0 extensively in the real environment.

The key USP of Magento Enterprise Edition 2.1 is its versatility, combined with stability. Magento 2.1 retains and improves on the unprecedented scalability offered in Magento 2.0, and adds the ability to offer deep customization, to deliver a highly engaging shopping experience to customers.



FOCUS ON SPEED WITH SCALABILITY

A central focus of Magento 2.x is speed. Now the platform is highly scalable as well, across all levels of catalog, checkout, and backend.

Magento 2.1 comes with full support for the latest PHP versions, including PHP 7.0.4 and PHP 5.6.5, apart from MySQL 5.7. These PHP versions come with the latest security fixes and improvements, directly impacting the web store's speed. It also enables using Varnish caching out of the box, sparing store owners the need to install a third-party module to use this hugely successful caching HTTP reverse proxy.

Magento 2.1 is capable of processing 100K records in about 25 minutes. The Catalog area, beefed up with Varnish, now handles up to 10 million page views per hour, up to 1.5 million simple products, and about 5000 categories, with ease. Checkout is capable of processing anywhere between 50,000 orders per hour (community version) to 90,000 orders per hour (enterprise version). The backend supports 50+ product management tools, with option to set deferred product updates.

The advanced page caching mechanism integrated into Magento 2.1 delivers optimum performance with minimum tuning.

The JavaScript code modules also come optimized, facilitating quick page rendering, capable of withstanding peak enterprise level traffic loads. The faster frontend performance with quick page rendering means website visitors will not have to wait for full page load to see the primary content.

Image compression, or the ability to optimize images directly on the server using Magento 2.1's built-in tools is a big improvement over the manual work required in Magento 1.x. Compressed images further improve the page load speed, adding to the shopper experience.

Enterprise Edition 2.1 is now available in the cloud as well, sparing store owners the headache of having to provision for infrastructure as well. The cloud edition offers a storefront built on AWS, which is fully-customizable, secure, and scalable. It is optimized for rapid deployments and performance, and has the flexibility to deploy the site in an environment of choice.

The focus on speed and scalability perfectly suits the requirements of today's fast-paced business environment, with customers always in a hurry and not ready to put with up any delays.

MODULAR ARCHITECTURE AND RESPONSIVE DESIGN

Closely related to the need for speed is delivering seamless and innovative shopping experience. Magento 2.1 co-opts a revamped architecture, to facilitate such an experience.

Magento 2.1's modular code base, combined with automated testing capabilities, makes customization easy and effortless. The enhanced theming options on offer enable merchants to launch new products and roll out seasonal campaigns easily, in about half the time compared to before.

Magento 2.1 has gone in for a complete

overhaul of design references. The new update introduces responsive design, catering to the ever-increasing tribe of mobile users. Users can now access any Magento store through the desktop or any mobile device, and the web store will display in an optimal manner relative to the screen size.

Not only does responsive design enhance the user experience greatly, but it also adds to the growth of the web store. Google grants higher ranking in search results for mobile-friendly stores.

BETTER CODE QUALITY

Magento 2.1 offers better code quality and testing options compared to earlier versions. Significant API level changes have occurred in the backend. Magento 2.1 offers several enhancements in the API classes, enriching the developer experience. Apart from the modification and removal of several classes with a view to improving code efficiency, Magento 2.1 launches two new web APIs for

Sales module. These new modules, "ShipOrder" and "InvoiceOrder" co-opt functionality currently available in the Admin interface to the sales API, making it easier to capture the payment and ship the product.

Significantly, the new and modified APIs and interfaces do not break any existing customization or extensions.

SUPERIOR ADMIN PANEL

Magento 2.1 overhauls the admin panel, making it more agile, simple, and user-friendly compared to the ones in previous versions. Several daily tasks, which required convoluted processes before, are now done easily through the revamped admin panel.

The sleek and modern dashboard shows important metrics such as lifetime sales, last orders, average orders, top search items, last search items, revenue tax, quantity shipped, bestselling items, and more, enabling shop owners to keep track of the state of the

business easily. The admin panel also becomes more flexible. The enhanced drag and drop feature allows admins to customize the panel with the required metrics, such as ordered product details, customer, or any other important parameter, as desired. Admins are empowered to add or remove columns on the orders or customers management grid, sparing the need to reach out to developers for every minor change. The all-new admin search feature makes it easy to find customer and order information quickly.

BETTER PRODUCT DISPLAY CAPABILITIES

Magento 2.1 offers several enhancements to content staging and preview. Redesigned forms simplify and speed up the process of creating new products, content, and categories. A new step-by-step product creation tool makes it easy to upload new products. The product merchandising feature likewise gets a boost, with the ability to easily integrate high-quality media from streaming sites such as Vimeo and YouTube, apart from the already available functionality to add images. Data import also becomes easier and faster.

Inbuilt tools, developed after extensive usability testing, make it easy to stage, preview, and schedule new content and updates to products, as well to roll out

promotions on-the-fly. The enhanced preview functionality enables store owners to preview changes across the store, by view and date, and share links to staged content with team members. It is also easy to preview changes in checkout to confirm all promotions work on expected lines.

A new timeline dashboard in the Enterprise edition offers visibility of all scheduled updates, enabling effective coordination of campaigns to maximize sales impact. The system publishes and removes updates automatically at scheduled times, offering store owners and admins the unbridled advantage of setting an update and forgetting all about it.

Magento 2.1 co-opts Elasticsearch, the dynamic and innovative new search engine, to facilitate easy setup, scale and management of products. Store owners may set 'stop words', search synonyms, and attribute weighting, to deliver highly relevant

search results. Elasticsearch is also capable of scaling seamlessly to handle large catalogs of growing merchants. The Elastic search engine offers also offers out-of-the-box support for 33 languages.

SMOOTHER CHECKOUTS

Users have little patience in today's fast-paced environment. Unless they are assured of a fast and seamless experience, they would sooner move elsewhere. Central to the efforts are a redesigned checkout, which cuts the number of steps in the check-out process from five to just two. Furthermore, registration is simplified. Magento 2.1 automatically analyses email addresses to identify registered customers, without them having to login specifically. Admins can opt to allow guest checkout as well.

The checkout becomes more dynamic as well. For instance, changing the customer's

location will now change the shipping cost as well. Such a function was absent in Magento 2.0 and earlier versions.

Another significant upgrade offered by Magento 2.1 is PayPal payment Method Integration, to further streamline the checkout process. Customers can now pay via PayPal without leaving the merchant site, resulting in a smoother and seamless experience, and increasing conversion rates. It also allows storing credit details so that shoppers can make faster payments for future purchases, without having to re-enter card details each time.

IMPROVED SECURITY

Magento 2.1 makes big improvements on the security front as well. The strengthened hashing algorithms (SHA-256) make passwords more resilient to dictionary types of attacks.

The customer billing information is now sent from the website directly to the payment gateway, making the process more secure than before. Magento 2 offers out-of-the-box

support for PayPal, Braintree, Authorize.net, WorldPay and some other payment methods.

While there are no confirmed attacks related to these issues to date, certain vulnerabilities which may potentially be exploited to access customer information or take over administrator sessions have been unearthed. The new version offers effective patches to fix such bugs and preempt attacks.

ABOUT SUYATI

Suyati provides marketing technology and integration services for companies that wish to combine the best breed of solutions and create a unified approach to customer acquisition. This unified digital marketing approach requires system integration between various CMS and CRM platforms, and a slew of eCommerce, Marketing Automation, Social Media Listening, email and social marketing, and customer service systems. Our specialized knowledge in Salesforce, open source and .Net based systems enables us to build effective custom integrated solutions for our clients. Suyati's custom technology solutions have been deployed in companies in the US, Western Europe and Australia, and have helped many enterprises leverage the web/cloud/mobile technologies to acquire customers through integrated digital marketing. Suyati is based in Chicago with product engineering capability out of the US and India.

MORE AT: www.suyati.com

WRITE TO US: services@suyati.com



REFERENCE

- 
1. <https://magento.com/blog/magento-news/magento-enterprise-edition-21-unleashes-power-marketers-and-merchandisers>
 2. <http://devdocs.magento.com/guides/v2.1/release-notes/ReleaseNotes2.1.2CE.html>
 3. <https://www.cubettech.com/blog/magento-enterprise-edition-2-1-the-next-generation-ecommerce-platform/>
 4. <http://ecommercedesign.agency/is-now-the-right-time-to-move-to-magento-2>
 5. <https://www.cminds.com/must-know-points-choosing-magento-2-community-enterprise-cloud-editions/>
 6. <https://www.atwix.com/magento-2/magento-1-vs-magento-2/>
 7. <http://www.exinent.com/magento-2-0-versus-magento-2-1/>
 8. <https://www.quora.com/Which-version-of-Magento-2-0-or-2-1-should-I-use-for-development>
 9. <https://www.appseconnect.com/magento-2-vs-magento-2-1/>
- 