

CMS performance

SINGLE SERVER SCENARIOS

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INTRODUCTION

What this document is about

This document contains performance numbers for the CMS part of Dynamicweb in some typical scenarios.

Who this document is for

This document can serve as a guideline for choosing the proper hosting setup for your Dynamicweb CMS solution.

1 CMS PERFORMANCE

The purpose of the following document is to provide relevant performance data for the CMS part of Dynamicweb.

Web performance in general is very dependent on the chosen design and the specific implementation of the website. This will often be a more important factor than the power of the hardware hosting the site.

The performance figures below are based on the Dynamicweb documentation site solution and the Dynamicweb official website both running version 8.8. We have built these sites using only items and they are a good example of content rich solutions.

The hardware used in the tests are a *quad core Xeon E3-1230v2* server with *16 GB RAM* running on *Windows Server 2012 and MSSQL 2012*.

All testing is done using the Microsoft Visual Studio Ultimate Load and Stress testing tool. User behavior time is estimated by looking at click statistics for real life Dynamicweb solutions.

1.1 Item paragraph scenarios

Show a content rich page based on items

Paragraph name	Include	Edited	User
Basic			
Pages	✓	Tue, 15 Mar 2016 11:51	System administrator
Basic Concepts	✓	Tue, 15 Mar 2016 11:52	System administrator
Creating pages	✓	Tue, 15 Mar 2016 11:53	System administrator
The paragraph list	✓	Tue, 15 Mar 2016 11:55	System administrator
The Content tab	✓	Tue, 15 Mar 2016 11:57	System administrator
Frontend editing	✓	Tue, 15 Mar 2016 12:03	System administrator
The Tools-tab	✓	Tue, 15 Mar 2016 12:04	System administrator
Previewing page content	✓	Tue, 15 Mar 2016 12:06	System administrator
The Marketing-tab	✓	Tue, 15 Mar 2016 12:08	System administrator
Deleting, moving & copying pages – etc.	✓	Tue, 15 Mar 2016 12:10	System administrator
Page Properties	✓	Tue, 15 Mar 2016 12:19	System administrator
The Menu-tab	✓	Tue, 15 Mar 2016 12:20	System administrator
The Options-tab	✓	Tue, 15 Mar 2016 12:21	System administrator
The Advanced-tab	✓	Tue, 15 Mar 2016 12:27	System administrator
The Layout-tab	✓	Tue, 15 Mar 2016 12:30	System administrator
Implementing			
Implementing	✓	Tue, 15 Mar 2016 12:32	System administrator
PDF-generation	✓	Tue, 15 Mar 2016 12:32	System administrator
Developing			
Developing	✓	Tue, 15 Mar 2016 12:33	System administrator
Database			
Database	✓	Tue, 15 Mar 2016 12:33	System administrator
Integrating			
Integrating	✓	Tue, 15 Mar 2016 12:33	System administrator

In this test, the visitor views a page with 20 paragraphs all item based. User behavior think times are supplied below.

Single server (1 x Xeon E3-1230v2, 16 GB, Windows Server 2012, SQL 2012):

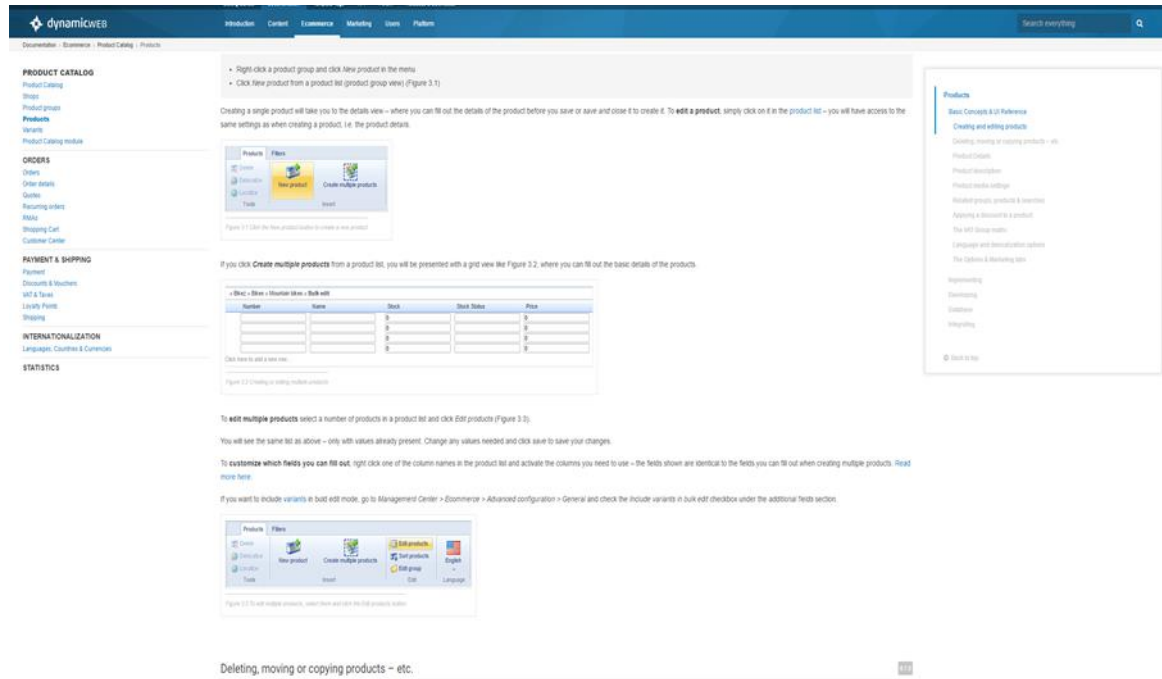
300 concurrent users.

View page (12 sec.)

90.000 page views / hour

Average page time 0.35 seconds

Show a very content-heavy page based on items



In this test, the visitor looks at a very content-heavy page with 60 item based paragraphs in total containing 50 images and 50.000 characters of text. User behavior think times are supplied below.

Single server (1 x Xeon E3-1230v2, 16 GB, Windows Server 2012, SQL 2012):

150 concurrent users.










View page (12 sec.)

35.000 page views / hour

Average page time 1.5 seconds

1.2 Item list scenarios

Browse an item list containing 50 items on a large page (3mb)

		
<p>HÄLSOKRAFT B2B ecommerce solution B2B ecommerce and inventory solution generating customer specific prices, inventory and order entry. Read more</p>	<p>INVITA Personalized content Improving B2C ecommerce and customer loyalty by displaying personalized content. Read more</p>	<p>LIFEHAMMER B2C ecommerce increases sales With a modern designed e-commerce platform to increase, internationalize and optimize sales. Read more</p>
		
<p>LINDAB Multichannel ecommerce B2B multichannel ecommerce solution with product configuration for 35 subsidiaries in 31 countries. Read more</p>	<p>LOUIS POULSEN B2C digital universe ROI of less than 4 months and a doubling of online sales during the second and third year. Read more</p>	<p>MAGNUSSON & FREIJ B2B and B2C with Jeeves ERP B2B and B2C ecommerce solution with Jeeves integration automates processes and increases conversions. Read more</p>
		
<p>MULTIFORM B2C lead generation High end kitchen retailer launches website designed to generate leads and newsletter subscribers. Read more</p>	<p>NEVOTEX B2B ecommerce with NAV New B2B ecommerce solution increases amount of online orders with more than 100%. Read more</p>	<p>NH1816 VERZEKERINGEN SEO optimized B2B and B2C website Google rankings have ascended with 54% and have more than doubled the sales pipeline. Read more</p>

In this test, the customer browses an item list on a large page with 50 items and chooses to show the details for a random item. User behavior think times are supplied below.

Single server (1 x Xeon E3-1230v2, 16 GB, Windows Server 2012, SQL 2012):

100 concurrent users

View list of 50 items (10 sec.), view item detail (10 sec.)

30.000 page views / hour

Average page time 0.7 seconds

Browse a large raw item lists

Links	Name	Remarks	Settings	Summary	Type
	UserManagement:Search.Query	Available when @GetString("UserManagement:Search.Form") is used in list template.	The value is generated automatically.	Returns the search query entered by a user.	String
	Field.Input		Not documented	Not documented	
	UserManagement:User.UserAddress.Address		The value is based on the Address input field for a user in Addresses. (User Management > User > Addresses > Edit user address > Address)	Returns the address of the user.	String
	DWUsers:User:Username		Not documented	Not documented	
	CustomField.Name		Not documented	Not documented	
	Group.ID		The value is generated automatically.	Returns the ID of the user group.	Integer
	Ecom:Product.Configurator.ID		Not documented	Returns the ID of the BOM/parts list configurator (product).	String
	Item.Area.Field.First	The tag returns [blank] or True. If it returns True then the field is the first in the list. The tag is only available in Page templates.	The value is generated automatically.	Returns a value if the website item field is the first in the list.	
	[TemplateTag]		The value is based on the product group field on the product group edit page. (Ecommerce - Product Group - Edit group - Product group fields - Product group field)	The value of the input field for the product group field.	String
	Ecom:VariantGroupProperty.Name		The value is based on the Name field in the variant property settings. (Management Center >	Returns the name of the variant property.	String

In this test, the visitor browses through a raw item list showing 100 out of 3000 items. User behavior think times are supplied below.

Single server (1 x Xeon E3-1230v2, 16 GB, Windows Server 2012, SQL 2012):

100 concurrent users.

Show first page (10 sec). Show second page (10 sec). Show third page (10 sec.)

30.000 page views / hour

Average page time 0.5 second

1.3 Default paragraphs and pages

View simple front page of a site

ATbiler.dk

Forside | Alle forretninger | Serviceaftaler | Værksted | Nye biler | Brugte biler | 4x4 ekspert | Tilbehør | Profil

Kig forbi ATbiler A/S i weekenden
Vi har åben kun for dig hver søndag kl. 11-15.
Kom og se/prøve den nye Aygo og Yaris - et par super lækre biler.
Velkommen hos din lokale Toyota forhandler i trekantensområdet: Fredericia, Give, Horsens og Vejle.

Links & Promotions

Ny Yaris
Ny Toyota Yaris fra 104.995 kr.

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Hold din Aygo godt kørende fra kun 1.395,-*

Toyota banker stadig bankerne
Toyota banker stadig bankerne.

Yaris Comfort - Selv prisen er super behagelig

Toyota Services

Finansiering | Brugte biler | Udstyrspakker | Toyota Forsikring | Serviceaftaler

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In this test, the customer views the front page of a site based on default paragraphs and pages. User behavior think times are supplied below.

Single server (1 x Xeon E3-1230v2, 16 GB, Windows Server 2012, SQL 2012):

200 concurrent users

View front page (10 sec.)

75.000 page views / hour

Average page time 0.2 seconds

