

Kentico CMS Cookbook

Version 1.1
August 2012 Edition



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Foreword



Welcome readers to Version 1.1 of the Kentico CMS cookbook! I have to send a huge thank you to everyone that either downloaded, read, or provided feedback. We have made some minor formatting changes, updated to include support for Kentico CMS 7, and continued to focus on adding quality recipes.

If you would like to contribute or have any comments or recipe requests please don't hesitate to email me at thomasr@kentico.com.

All recipes contain the following sections.

Section name	Description
Recipe	Short descriptive name of the recipe.
Chef	Name of the person and their company that submitted the recipe.
Version	Kentico CMS version this recipe has been tested against.
Problem	Short description of the problem the recipe is designed to solve.
Solution	The solution to the problem.
Discussion	Discussion of the solution.
See also	Additional resources for information.

Until the next edition!

Thom Robbins
Kentico CMS Cookbook Editor
thomasr@kentico.com

Kentico CMS Cookbook

Recipe 1 Exiting Safe Mode

1.0 Chef

Juraj Ondrus, Kentico Customer Care Manager, Kentico CMS

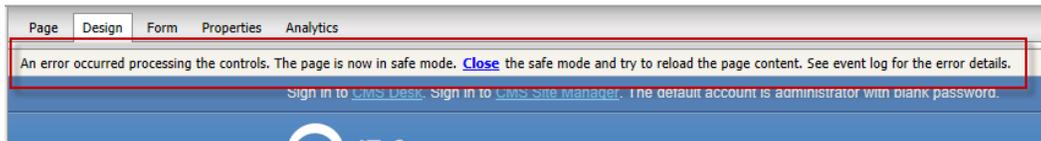
1.1 Version

Kentico CMS Version 6

Kentico CMS Version 7

1.2 Problem

In CMS Desk you see the message **An error occurred processing the controls. The page is now in safe mode. Close the safe mode and try to reload the page content. See event log for details.** as shown in the following screenshot.

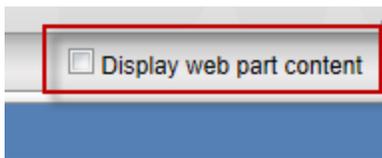


1.3 Solution

Uncheck the Display web part content checkbox or modify the page template web part XML.

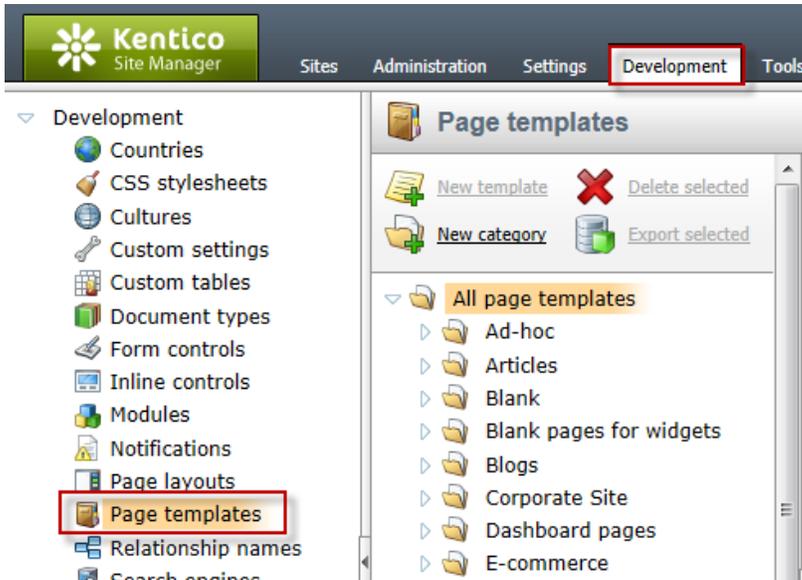
Uncheck the Display web part content checkbox:

On the page where you received **An error occurred processing the controls. The page is now in safe mode. Close the safe mode and try to reload the page content. See event log for the error details.** Uncheck the **Display web part content checkbox** as shown in the following screenshot.

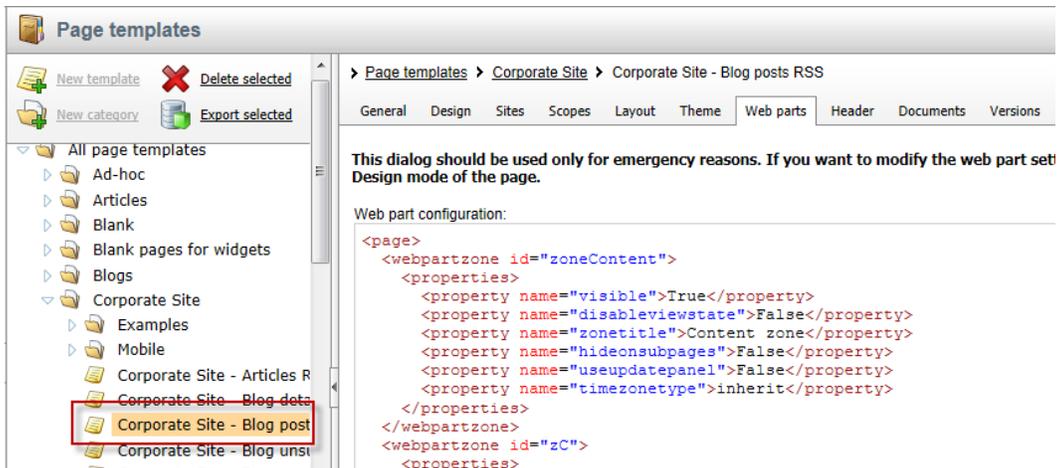


Modify the page template web part XML:

1. Log into **Site manager**, select the **Development** tab and then click the **Page templates** menu option as shown in the following screenshot.

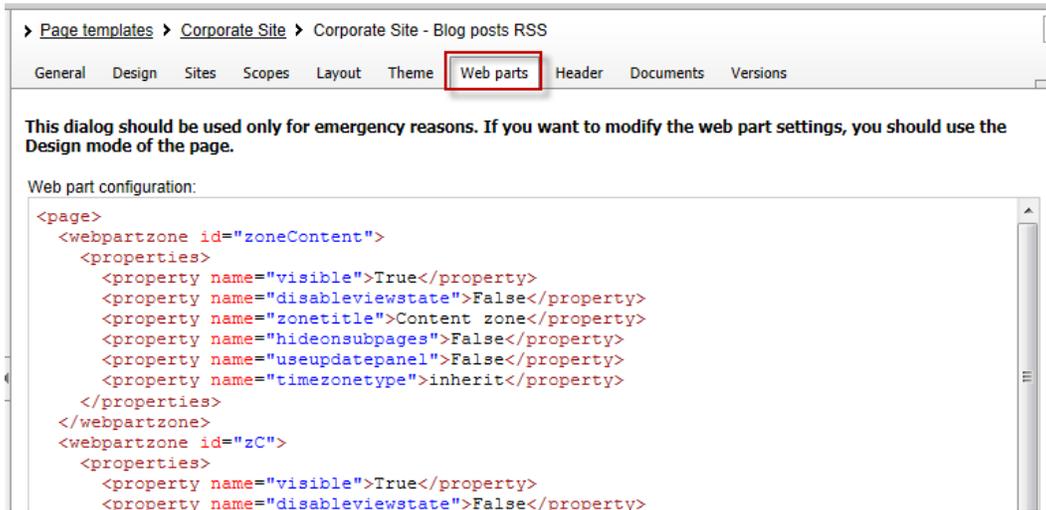


2. In the list of page templates select the page template that contains the web part as shown in the following screenshot.



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- In the Page templates screen select the **Web parts** tab as shown in the following screenshot.



- In the **Web parts** tab in the **Web part configuration:** section modify or remove the XML web part settings as shown in the following screenshot.

This dialog should be used only for emergency reasons. If you want to modify the web part settings, you should use the Design mode of the page.



1.4 Discussion

This error occurs when you configure a web part or run custom code that prevents page processing. When this occurs, Kentico CMS defaults to Safe mode. This mode ensure that the page is still displayed but attempts to buffer the user from problematic code or web parts that may cause processing issues. If you aren't sure what may be causing the error the first thing to do is review the error details in the Event log.

When a page is displayed in Safe mode, there are two options that can be used to recover the page. The first is to uncheck the **Display web part content** option which depending on the error may enable access to web part configuration options. The second is to modify the page template web part XML.

1.5 See also

[Safe mode on Design tab](#)

Recipe 2 Display current date

2.0 Chef

Thom Robbins, Kentico CMS Cookbook Editor, Kentico CMS

2.1 Version

Kentico CMS Version 6

Kentico CMS Version 7

2.2 Problem

You want the current date displayed in a web part.

2.3 Solution

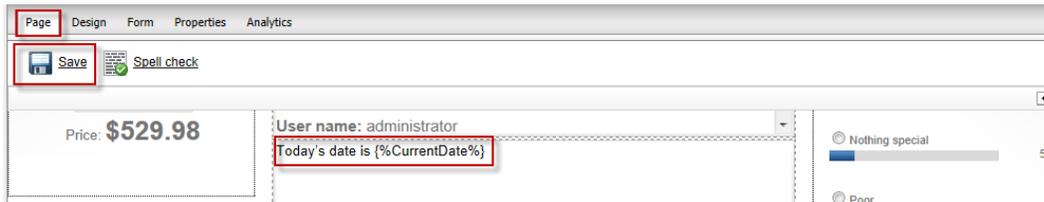
Use the `{%CurrentDate%}` macro expression.

2.4 Discussion

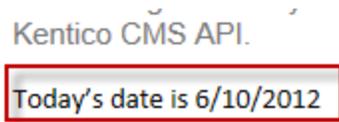
The `{%CurrentDate%}` variable is a macro expression that resolves into a string representing the current server system date.

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In CMS Desk on the **Page** tab within an Editable text web part enter the text **Today's date is {%CurrentDate%}**, and then select **Save** as shown in the following screenshot.



In the View mode panel click the **Preview** button to view the resolved macro as shown in the following screenshot.



2.5 See also

[K# and Kentico EMS – Part 1](#)

[K# and Kentico EMS – Real World Examples](#)

[Transformations Revealed](#)

Recipe 3 Enabling the Design tab for an ASPX Template

3.0 Chef

Thom Robbins, Kentico CMS Cookbook Editor, Kentico CMS

3.1. Version

Kentico CMS Version 6

Kentico CMS Version 7

3.2 Problem

You want to add CMS Desk Design tab to an ASPX page template.

3.3 Solution

When creating the ASPX page template in Visual Studio use the **CMSPagePlaceholder** control and then when registering the page template in the Template type dropdown select **ASPX + Portal page**.

Use the CMSPagePlaceholder control:

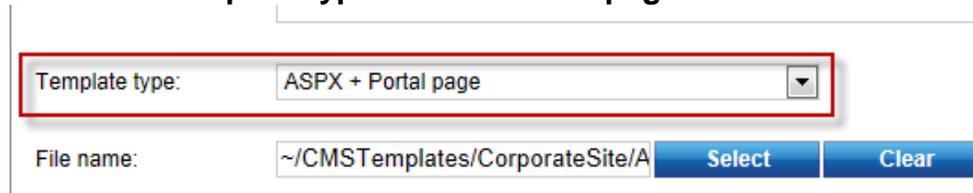
```
<cms:CMSPagePlaceholder ID="plcZones" runat="server">  
  <LayoutTemplate>  
    <cms:CMSWebPartZone ID="zoneCenter" runat="server" />  
  </LayoutTemplate>  
</cms:CMSPagePlaceholder>
```



Cooking note

The **CMSPortalManager** control is also required for portal engine functionality. This control is usually placed on the master page set for the template.

Select the template type ASPX + Portal page:



Template type: ASPX + Portal page

File name: ~/CMSTemplates/CorporateSite/A

Select Clear

3.4 Discussion

One of the drawbacks of ASPX page templates is the need for manual modification for design changes. Adding the **CMSPagePlaceholder** control enables page areas that may be edited directly in the CMS Desk Design tab.

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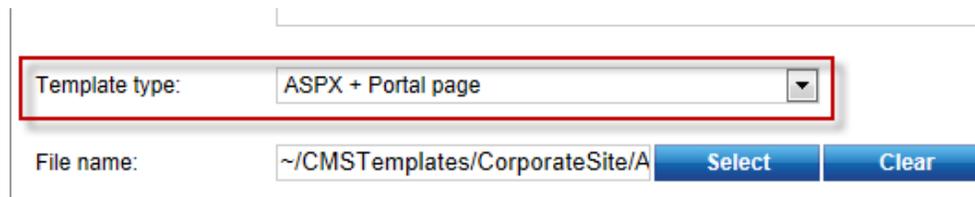
Cooking note

If you have any pages using the older **CMSPageManager** control. This control is obsolete and does not support web parts and widget zones. Before using this recipe you must first replace the control.

When creating the ASPX page in Visual Studio add the following code to the page.

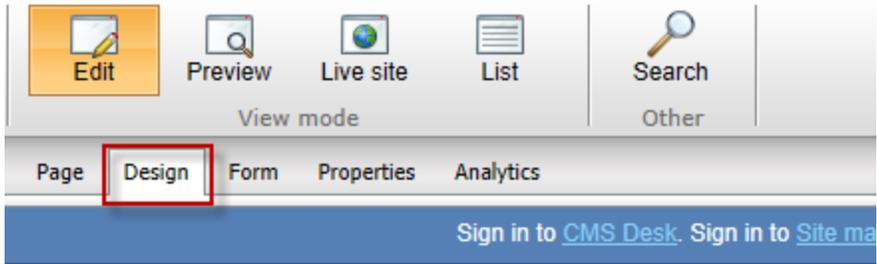
```
<asp:Content ID="Content1" ContentPlaceHolderID="plcMain"
Runat="Server">
<cms:CMSPagePlaceholder ID="plcZones" runat="server">
  <LayoutTemplate>
    <table width="100%" cellpadding="0" cellspacing="0">
      <tr valign="top">
        <td width="50%">
          <cms:CMSWebPartZone ID="zoneLeft" runat="server" />
        </td>
        <td width="50%">
          <cms:CMSWebPartZone ID="zoneRight" runat="server" />
        </td>
      </tr>
    </table>
  </LayoutTemplate>
</cms:CMSPagePlaceholder>
</asp:Content>
```

When you are registering the page template in Site manager in the **Template type** dropdown select the **ASPX + Portal page** as shown in the following screenshot.



The screenshot shows a registration form with a dropdown menu for 'Template type' set to 'ASPX + Portal page'. Below it is a 'File name' field containing '~\CMSTemplates/CorporateSite/A' and two buttons: 'Select' and 'Clear'.

With a new page created in CMS Desk based on the ASPX template you can now see the **Design** tab is displayed as shown in the following screenshot.



Recipe 4 Enhance availability of On-line marketing activities

4.0 Chef

Zdenek Strach, Technical Leader, Kentico CMS

4.1 Version

Kentico CMS Version 6 (SP1)

4.2 Problem

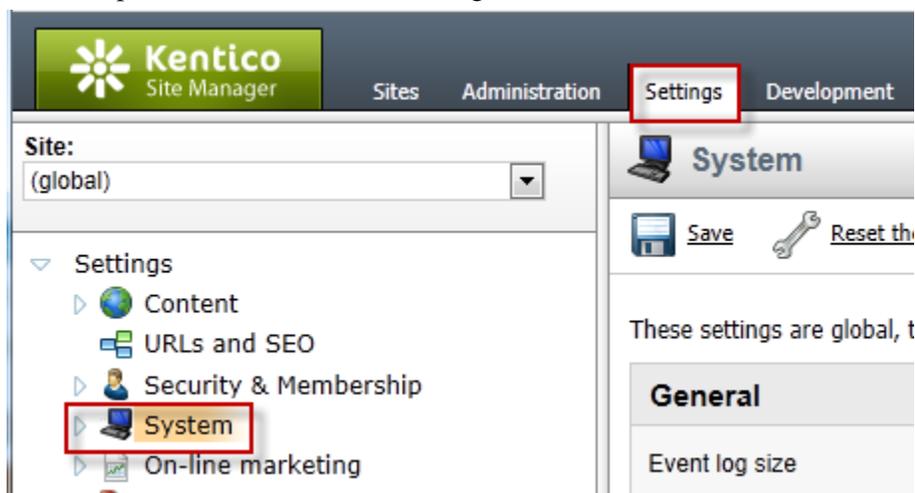
You need to make on-line marketing activities available sooner than the default.

4.3 Solution

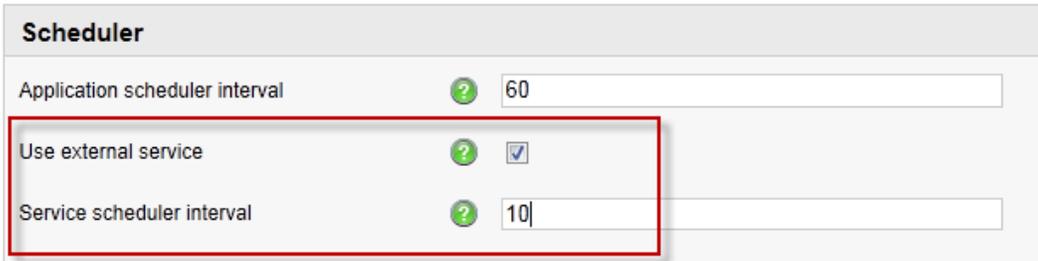
Modify the Process activity log scheduler service or add `CMSLogActivityImmediatelyToDB` key to the Kentico CMS Web.config.

Modify the Process activity log scheduling service

1. Log into **Site manager**, select the **Settings** tab, and then select the **System** menu option as shown in the following screenshot.



- In the System screen in the **Scheduler** panel check the **Use external service** and in the **Service scheduler interval** enter the execution seconds, and then select **Save** as shown in the following screenshot.



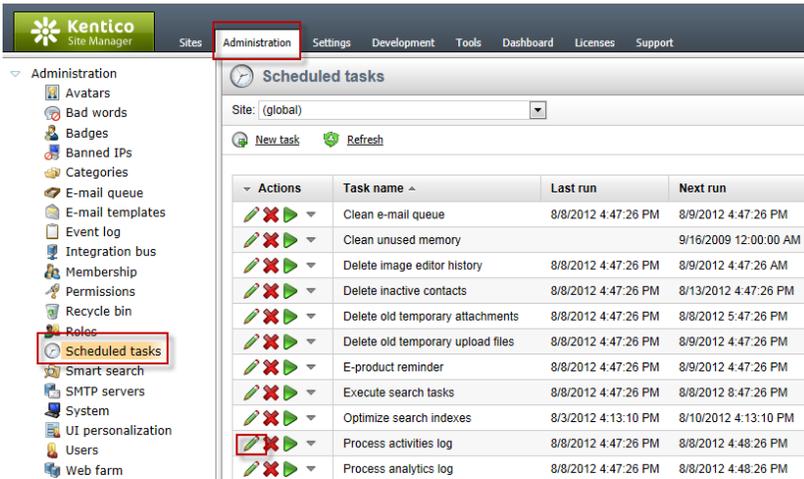
Scheduler

Application scheduler interval

Use external service

Service scheduler interval

- In Site manager select the **Administration** tab, select **Scheduled tasks** option and for the **Process activities log** scheduled task click the **Edit (pencil)** icon as shown in the following screenshot.



Kentico Site Manager Administration Settings Development Tools Dashboard Licenses Support

Scheduled tasks

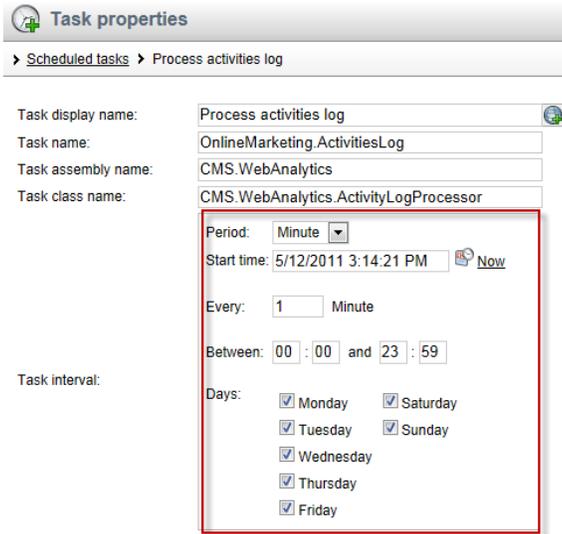
Site: (global)

New task Refresh

Actions	Task name	Last run	Next run
	Clean e-mail queue	8/8/2012 4:47:26 PM	8/9/2012 4:47:26 PM
	Clean unused memory		9/16/2009 12:00:00 AM
	Delete image editor history	8/8/2012 4:47:26 PM	8/9/2012 4:47:26 AM
	Delete inactive contacts	8/8/2012 4:47:26 PM	8/13/2012 4:47:26 PM
	Delete old temporary attachments	8/8/2012 4:47:26 PM	8/8/2012 5:47:26 PM
	Delete old temporary upload files	8/8/2012 4:47:26 PM	8/9/2012 4:47:26 PM
	E-product reminder	8/8/2012 4:47:26 PM	8/9/2012 4:47:26 PM
	Execute search tasks	8/8/2012 4:47:26 PM	8/8/2012 8:47:26 PM
	Optimize search indexes	8/3/2012 4:13:10 PM	8/10/2012 4:13:10 PM
	Process activities log	8/8/2012 4:47:26 PM	8/8/2012 4:48:26 PM
	Process analytics log	8/8/2012 4:47:26 PM	8/8/2012 4:48:26 PM

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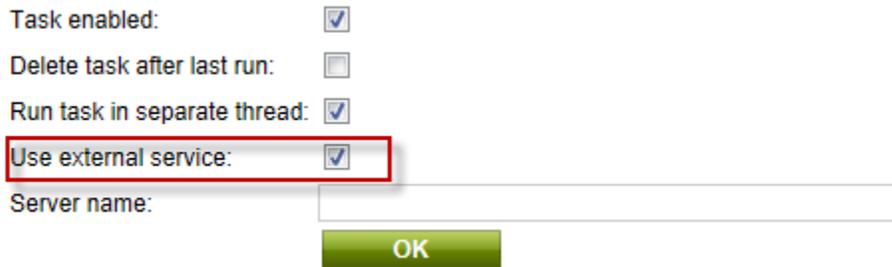
4. In the Task properties screen in the **Task interval** section set the required interval and then click **OK** as shown in the following screenshot.



The screenshot shows the 'Task properties' window for 'Process activities log'. The 'Task interval' section is highlighted with a red box. It includes the following fields:

- Task display name: Process activities log
- Task name: OnlineMarketing.ActivitiesLog
- Task assembly name: CMS.WebAnalytics
- Task class name: CMS.WebAnalytics.ActivityLogProcessor
- Period: Minute
- Start time: 5/12/2011 3:14:21 PM (with a 'Now' button)
- Every: 1 Minute
- Between: 00:00 and 23:59
- Days: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday

5. In the Task properties screen validate the **User external service** is checked as shown in the following screenshot.

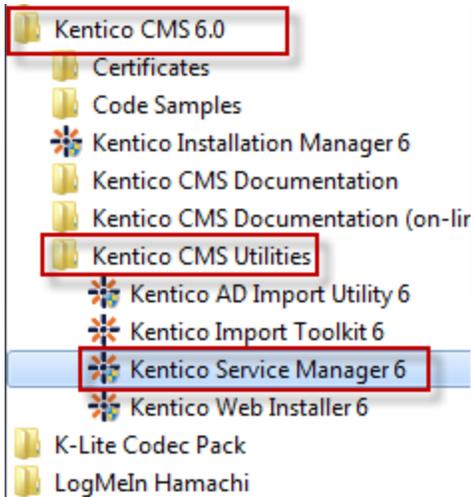


The screenshot shows the 'Task properties' window with the following settings:

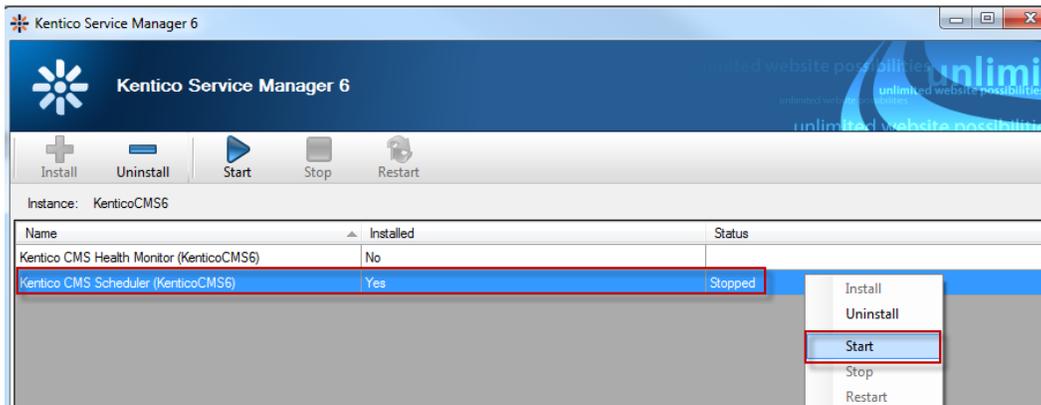
- Task enabled:
- Delete task after last run:
- Run task in separate thread:
- Use external service: (highlighted with a red box)
- Server name: [Empty text box]

An 'OK' button is visible at the bottom.

- From the Windows start menu select the **Kentico CMS 6.0** menu options, select **Kentico CMS Utilities** and then click **Kentico Service Manager 6** as shown in the following screenshot.



- In the **Kentico Service Manager 6** application install the **Kentico CMS Scheduler (KenticoCMS6)** service and then select **Start** as shown in the following screenshot.



Add CMSLogActivityImmediatelyToDB key to the Kentico CMS Web.config

In the Kentico CMS Web.config file in the **AppSetting** section add the following key.

```
| <add key="CMSLogActivityImmediatelyToDB" value="true" />
```

4.4 Discussion

By default new marketing activities are logged into temporary storage on the server file system. On a regular interval these files are processed and the stored data is moved into the database. For many scenarios modifying the Process activity scheduler service offers the best approach. Updating the Web.config key will bypass the creation of temporary files and update the database directly with new marketing activities. This will increase the availability of new marketing activities. The downside is that logging activities directly to the database may cause performance issues on high-traffic sites.

4.5 See also

How to process On-line marketing activities faster
--

Recipe 5 Select multiple document types

5.0 Chef

Ivana Tomanickova, Support Engineer, Kentico CMS

5.1 Version

Kentico CMS Version 6

Kentico CMS Version 7

5.2 Problem

You need to select multiple document types from the Content tree

5.3 Solution

Use the `CMS.TreeEngine.TreeProvider` class and in the `SelectNodes` method provide the `ClassNames` parameter.

`SelectNodes` Method:

```
SelectNodes(siteName, aliasPath, cultureCode,  
combineWithDefaultCulture, classNames, where, orderBy,  
maxRelativeLevel, selectOnlyPublished, relationshipWithNodeGuid,  
relationshipName, relatedNodeIsOnTheLeftSide, topN, columns)
```

5.4 Discussion

The `CMS.TreeEngine.TreeProvider` class provides methods for management of the tree structure. The `SelectNodes` method is used to select specific content items from the content tree. The following code will select `CMS.Article` and `CMS.News` document types into a dataset that contains two tables.

```
// Using CMS.TreeEngine;  
// Using CMS.CMSHelper;  
TreeProvider tree = new TreeProvider(CMSContext.CurrentUser);  
DataSet nodes = tree.SelectNodes("CorporateSite", "%", "en-US",  
true, "cms.Article;cms.News", "", "NodeName ASC");
```

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The following code will merge the data into a single table called **Combined** that is then bound to an ASPX Gridview control called **GridView1**.

```
// Using CMS.TreeEngine;  
// Using CMS.CMSHelper;  
//  
//select the document from the content tree  
TreeProvider tree = new TreeProvider(CMSContext.CurrentUser);  
tree.MergeResults = true;  
tree.SortMergedResults = true;  
DataSet nodes = tree.SelectNodes("corporatesite", "%", "en-US",  
true, "cms.Article;cms.News", "", "NodeName ASC");  
// rename the table  
nodes.Tables["cms.Article"].TableName = "Combined";  
// bind to the gridview control  
GridView1.DataSource = nodes.Tables["Combined"];  
GridView1.DataBind();
```

5.5 See also

[How to sort document based on two document types using API](#)

Recipe 6 Add new user

6.0 Chef

Thom Robbins, Kentico CMS Cookbook Editor, Kentico CMS

6.1 Version

Kentico CMS Version 6

Kentico CMS Version 7

6.2 Problem

You need to add a new user to a Kentico CMS site.

6.3 Solution

With the `CMS.SiteProvider.UserInfo` class, populate the new user information and then update the `CMS.SiteProvider.UserInfoProvider` class.

Creating a `CMS.SiteProvider.UserInfo` class:

```
| CMS.SiteProvider.UserInfo user = new CMS.SiteProvider.UserInfo();
```

Update the `CMS.SiteProvider.UserInfoProvider` class:

```
| CMS.SiteProvider.UserInfoProvider.SetUserInfo(CMS.SiteProvider.Userin  
fo);  
| CMS.SiteProvider.UserInfoProvider.SetPassword(CMS.SiteProvider.Userin  
fo, "Password");  
| CMS.SiteProvider.UserInfoProvider.AddUserToSite(CMS.SiteProvider.User  
info.UserName, "Site name");
```

6.4 Discussion

The `CMS.SiteProvider.UserInfo` is a data container for user information. Once populated this class is applied to the `CMS.SiteProvider.UserInfoProvider` class to create the new user. The following code will create a new user named Michael Johnson and then assign a password and site.

```
// Using statement added to top
// using CMS.SiteProvider;
//
//
// Create UserInfo Object
UserInfo user = new UserInfo();
// Set user properties
user.UserName = "Michael";
user.FirstName = "Michael";
user.LastName = "Johnson";
user.FullName = "Michael Johnson";
user.Email = "Michael Johnson@domain.com";
user.Enabled = true;
user.PreferredCultureCode = "en-us";
// Create new user
CMS.SiteProvider.UserInfoProvider.SetUserInfo(user);
// Set the password
CMS.SiteProvider.UserInfoProvider.SetPassword(user,"Password1");
// Add the user to the Corporate Site
CMS.SiteProvider.UserInfoProvider.AddUserToSite(user.UserName,
"CorporateSite");
```

Recipe 7 Change default behaviour of the Enter key

7.0 Chef

Edward Hillard, Support Engineer, Kentico CMS

7.1 Version

Kentico CMS Version 6

7.2 Problem

You need to change the default behaviour of the enter key in the CK Editor.

7.3 Solution

In Visual Studio Solution Explorer edit the `~\CMSAdminControls\CKeditor\config.js` file, change the `config.entermode` setting and then restart the application.

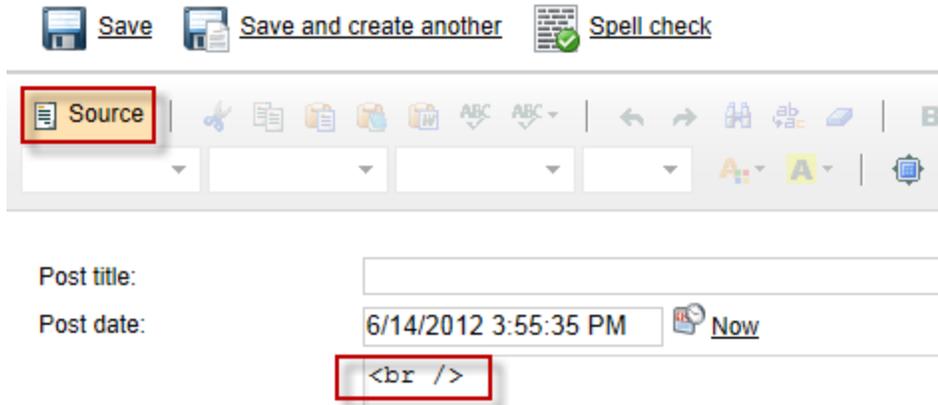
`config.entermode` settings:

Option	Description
<code>CKEDITOR.ENTER_P</code>	Creates a new <code><p></code> tag
<code>CKEDITOR.ENTER_DIV</code>	Creates a new <code><div></code> block
<code>CKEDITOR.ENTER_BR</code>	Creates a new <code>
</code> tag

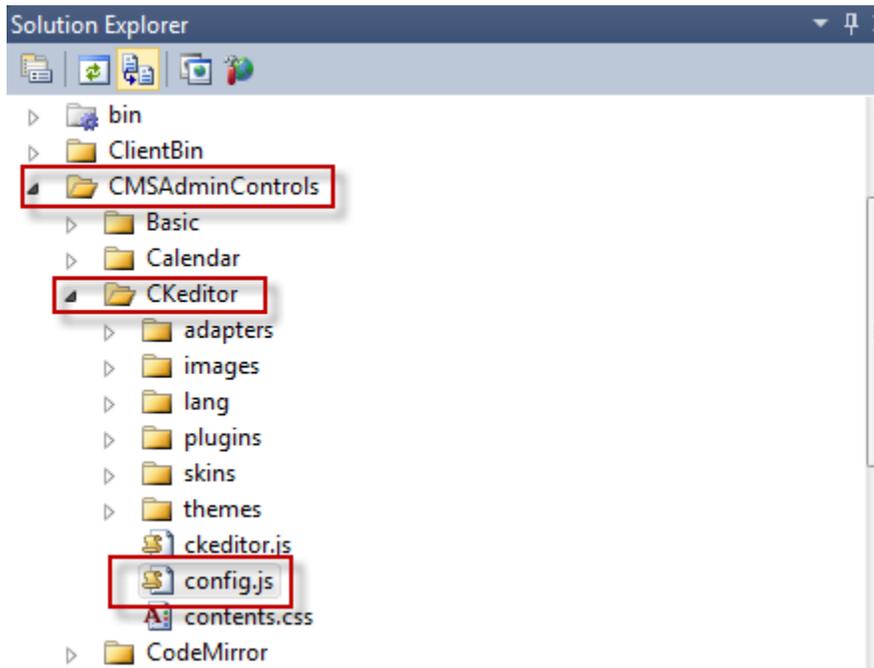
7.4 Discussion

In the WYSIWYG editor the default behaviour for the Enter key is to generate a line break `
`. In a blog post you can validate this behaviour by pressing the Enter key and then selecting the **Source** button as shown in the following screenshot.

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In the Kentico CMS web project in the Solution Explorer click the **CMSAdminControls** folder, then expand the **CKEditor** folder and then double click the **config.js** file as shown in the following screenshot.



At approximately line 10 is the `config.entermode` setting that is responsible for the default `
` tag as shown in the following screenshot.

```
7 /
5 CKEDITOR.editorConfig = function(config) {
6
7     config.extraPlugins = 'CMSPlugins';
8     config.uiColor = '#eeeeee';
9     config.skin = 'kentico';
10    config.enterMode = CKEDITOR.ENTER_BR;
11    config.entities_latin = false;
12    config.protectedSource.push(/<script[\s\S]*?</script>/gi); // <SCRIPT> tags.
13
```

Change the `config.entermode` property to `CKEDITOR.ENTER_P` and then select **Save (ctrl+s)** as shown in the following screenshot.

```
5 CKEDITOR.editorConfig = function(config) {
6
7     config.extraPlugins = 'CMSPlugins';
8     config.uiColor = '#eeeeee';
9     config.skin = 'kentico';
10    config.enterMode = CKEDITOR.ENTER_P;
11    config.entities_latin = false;
12    config.protectedSource.push(/<script[\s\S]*?</script>/gi); // <SCRIPT> tags.
13
```

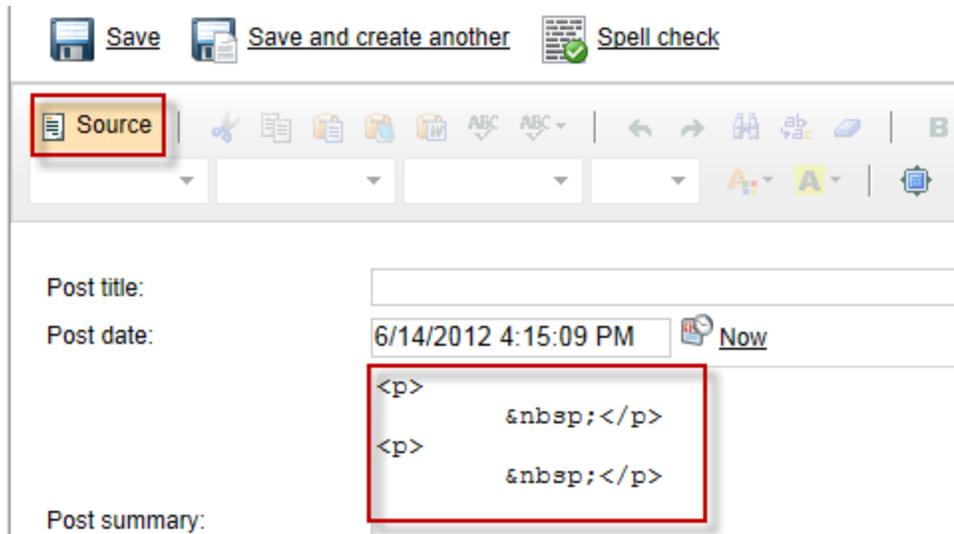


Cooking note

This recipe changes the default UI files. It is important to keep a note of these changes as they may be overwritten during an upgrade or installation.

Restart the application, clear the application cache and depending on your browser clear the cache. In a blog post you can validate this changed behaviour by pressing the Enter key and then selecting the **Source** button as shown in the following screenshot.

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Save Save and create another Spell check

Source

Post title:

Post date: 6/14/2012 4:15:09 PM Now

Post summary:

```
<p>
    &nbsp;</p>
<p>
    &nbsp;</p>
```



Cooking note

You can restart the application and clear the application cache from Site Manager by selecting the **Administration** tab, then select the **System** menu and **General** tab.

7.5 See also

[CK Editor Enter Mode](#)

Recipe 8 Delete inactive contacts

8.0 Chef

Vitezslav Janecek, Senior Developer, Kentico CMS

8.1 Version

Kentico CMS Version 6 (SP1)

8.2 Problem

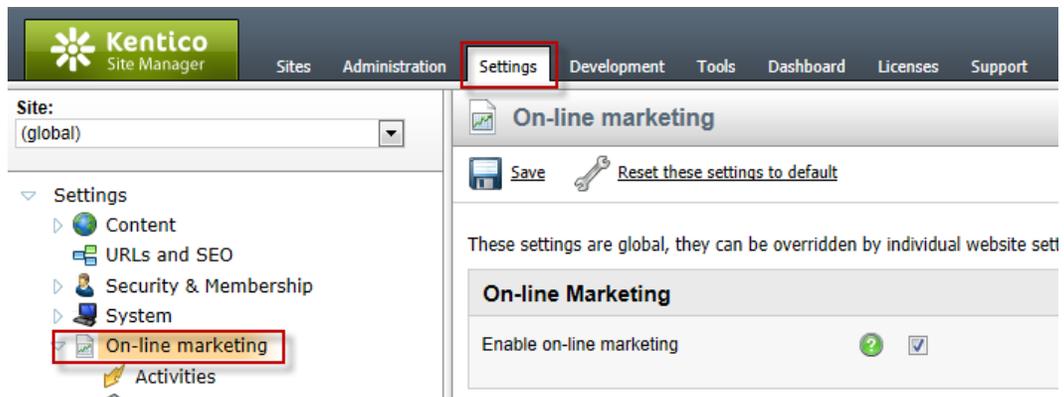
You need to delete inactive contacts from the contact module.

8.3 Solution

Modify the On-Line marketing settings and then schedule the Delete inactive contacts scheduled task.

Modify On-line marketing settings

1. Log into **Site Manager**, select the **Settings** tab and then select **On-line marketing** as shown in the following screenshot.



The screenshot shows the Kentico Site Manager interface. The top navigation bar includes 'Sites', 'Administration', 'Settings' (highlighted with a red box), 'Development', 'Tools', 'Dashboard', 'Licenses', and 'Support'. The left sidebar shows a tree view of settings categories: 'Settings' (expanded), 'Content', 'URLs and SEO', 'Security & Membership', 'System', 'On-line marketing' (highlighted with a red box), and 'Activities'. The main content area displays the 'On-line marketing' settings page. It features a 'Save' button and a 'Reset these settings to default' link. Below this, a message states: 'These settings are global, they can be overridden by individual website sett'. The 'On-line Marketing' section contains a checkbox labeled 'Enable on-line marketing' which is checked, accompanied by a green question mark icon.

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2. In **On-line marketing** settings in the **Delete inactive contacts** panel update the appropriate setting and then select **Save** as shown in the following screenshot.

Delete inactive contacts

Delete inactive contacts	?	<input type="checkbox"/>
Last activity older than (days)	?	<input type="text"/>
Contact created before (days)	?	<input type="text"/>
Contact last logon before (days)	?	<input type="text"/>
Contact last modified before (days)	?	<input type="text"/>
Contact merged before (days)	?	<input type="text"/>
Merged into site contact only	?	<input type="checkbox"/>
Merged into global contact only	?	<input type="checkbox"/>
Contact is anonymous	?	<input type="text" value="Doesn't matter"/>

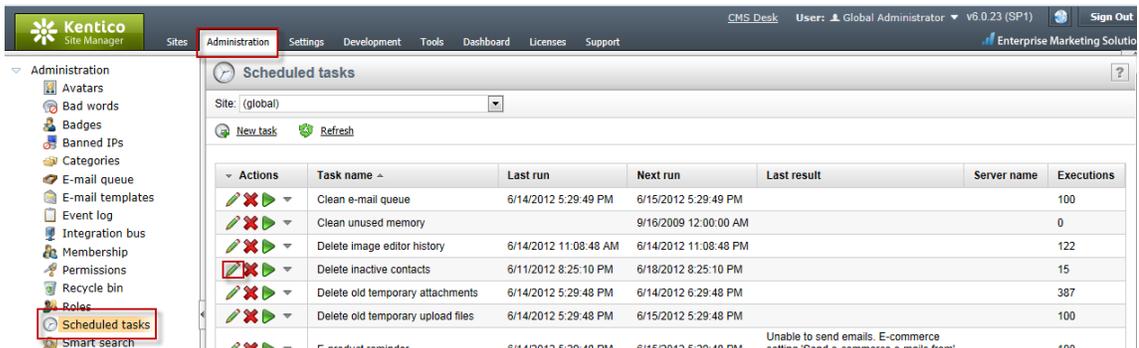
Delete inactive contacts settings.

Field	Description
Delete inactive contacts	When selected site contacts are included in the Delete inactive contacts scheduled task execution.
Last activity older than(days)	Contacts with activity older than the specified number of days are deleted.
Contact created before (days)	Contacts created before the specified number of days are deleted.
Contact last logon before (days)	Contacts with a logon before the specified number of days are deleted.
Contact last modified before (days)	Contacts last edited before the specified number of days are deleted.
Contact merged before (days)	Contacts merged into another contact before the specified number of days are

	deleted.
Merged into site contact only	If selected all contacts merged into another contact are deleted.
Merged into Global contact only	If selected all contacts merged into a global contact are deleted.
Contact is anonymous	If selected all anonymous contacts are deleted.

Delete inactive contacts scheduled task

1. Log into **Site Manager**, select the **Administration** tab, click **Scheduled tasks** and then click the **Edit (pencil)** icon for the **Delete inactive contacts** task as shown in the following screenshot.

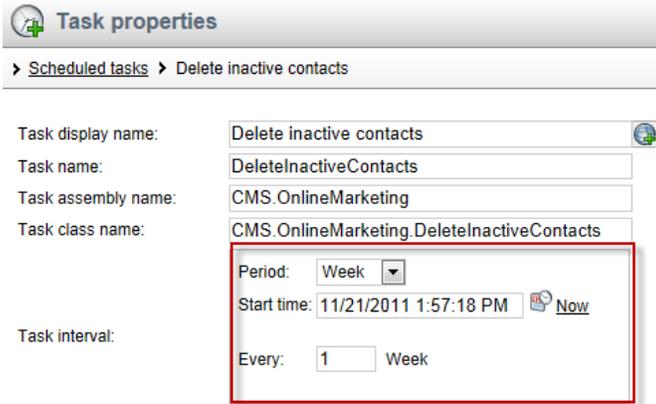


The screenshot shows the Kentico CMS Administration interface. The 'Administration' tab is selected, and the 'Scheduled tasks' sub-tab is active. The 'Delete inactive contacts' task is highlighted in the table, and its 'Edit (pencil)' icon is circled in red.

Actions	Task name	Last run	Next run	Last result	Server name	Executions
	Clean e-mail queue	6/14/2012 5:29:49 PM	6/15/2012 5:29:49 PM			100
	Clean unused memory		9/16/2009 12:00:00 AM			0
	Delete image editor history	6/14/2012 11:08:48 AM	6/14/2012 11:08:48 PM			122
	Delete inactive contacts	6/11/2012 8:25:10 PM	6/18/2012 8:25:10 PM			15
	Delete old temporary attachments	6/14/2012 5:29:48 PM	6/14/2012 6:29:48 PM			387
	Delete old temporary upload files	6/14/2012 5:29:48 PM	6/15/2012 5:29:48 PM			100
	E-nndist reminder	6/14/2012 5:29:48 PM	6/15/2012 5:29:48 PM	Unable to send emails. E-commerce setting 'Send e-commerce e-mails from'		100

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2. In the Task properties screen for the **Task interval** section set the scheduled interval and then select **OK** as shown in the following screenshot.



The screenshot shows the 'Task properties' window for the task 'Delete inactive contacts'. The 'Task interval' section is highlighted with a red box. It contains the following fields:

- Task display name: Delete inactive contacts
- Task name: DeleteInactiveContacts
- Task assembly name: CMS.OnlineMarketing
- Task class name: CMS.OnlineMarketing.DeleteInactiveContacts
- Task interval: Period: Week (dropdown), Start time: 11/21/2011 1:57:18 PM (with a 'Now' button), Every: 1 Week

8.4 Discussion

Contacts are automatically created whenever a user visits your site. Based on your business requirements and lead scoring rules you may remove out of date contacts. In On-line marketing settings, if **Delete inactive contacts** is not selected, site contacts will only be removed if they are deleted manually. When multiple conditions are set, only those contacts that fulfill all selected parameters are removed. You can set different parameters for different sites or enable deleting on some sites and turn it off on others.

The globally scheduled **Delete inactive contacts** task runs a separate deleting process for each site that has the **Delete inactive contacts** checked. The scheduled task is predefined to run on a weekly basis. It runs in a separate thread and the actual process of deleting contacts runs on SQL server reducing the load on your web server.

8.5 See also

[Delete inactive contacts](#)

Recipe 9 Determine location of code rendered on a page

9.0 Chef

Edward Hillard, Support Engineer, Kentico CMS

9.1 Version

Kentico CMS Version 6

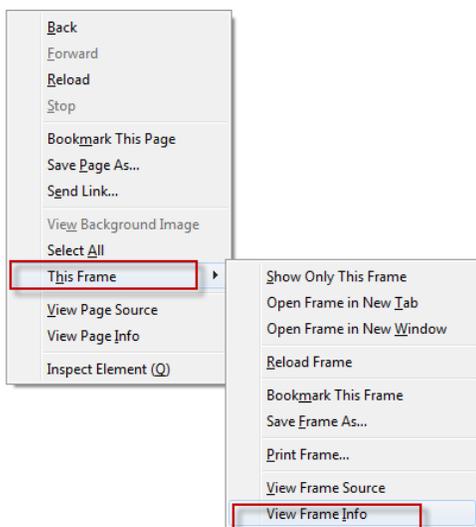
Kentico CMS Version 7

9.2 Problem

You need to identify the location of a page within CMS Desk or Site manager using Firefox.

9.3 Solution

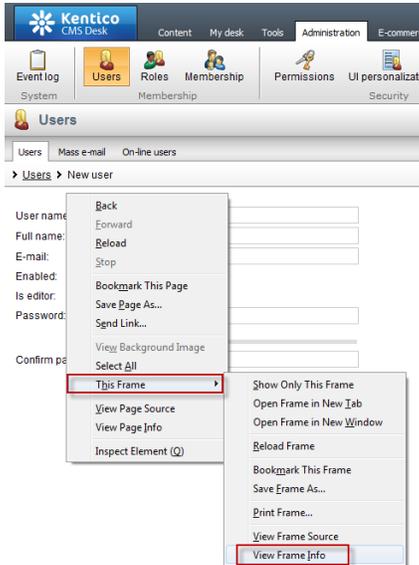
In Firefox with a CMS Desk or Site Manager page displayed right click, in the pop-up menu select **This frame** and then select **View Frame Info** as shown in the following screenshot.



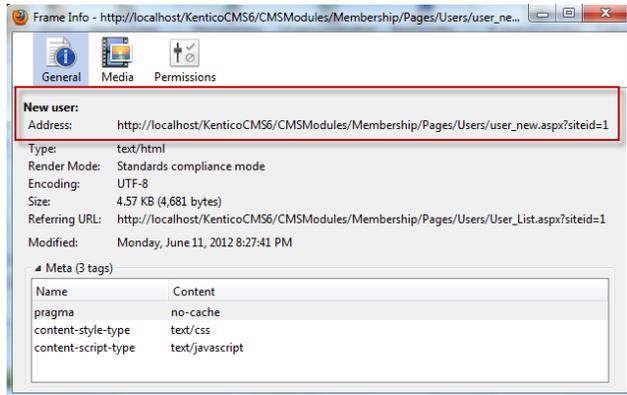
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9.4 Discussion

Many modern browsers including Firefox allow the easy identification of the current page. In Firefox, while viewing the CMS Desk **New User** screen, right click and then select **This Frame** and then click **View Frame Info** as shown in the following screenshot.



This displays the Frame info screen and you can see that [~/CMSModules/Membership/Pages/Users/user_new.aspx](#) is the currently displayed page as shown in the following screenshot.



9.5 See also

[How to find the location of the code for a page used in the user interface](#)

Recipe 10 Display current document name

10.0 Chef

Thom Robbins, Kentico CMS Cookbook Editor, Kentico CMS

10.1 Version

Kentico CMS Version 6

Kentico CMS Version 7

10.2 Problem

You want to display the current document name in a web part.

10.3 Solution

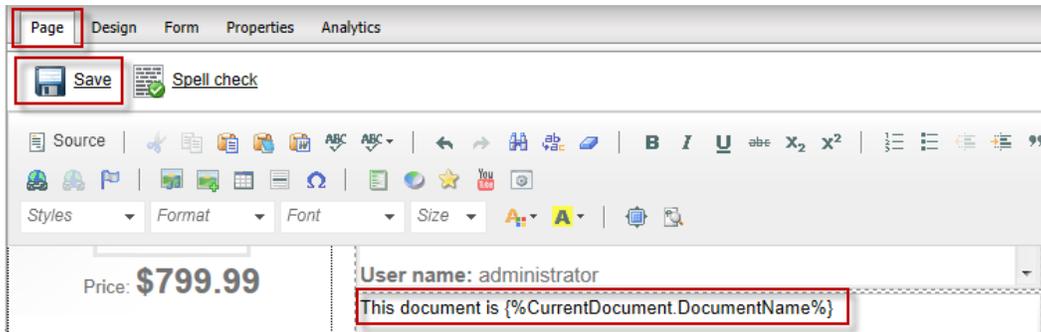
Use the `{%CurrentDocument.DocumentName%}` macro expression.

10.4 Discussion

The `{%CurrentDocument.DocumentName%}` variable is a macro expression that resolves into a string representing the current document name

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In CMS Desk on the **Page** tab within an Editable text web part enter the text **This document is {%CurrentDocument.DocumentName%}**, and then select **Save** as shown in the following screenshot.



In the View mode panel click the **Preview** button to view the resolved macro as shown in the following screenshot.

API Examples

Clicking this button will take you to the Support - > API examples section of Site Manager where you can view and execute examples of code utilizing Kentico CMS API.

This document is Home

Recipe 11: Enabling automatic scheduler interval

11.0 Chef

Bryan Soltis, Director of Technology & Research, Bit-Wizards/Kentico MVP

11.1 Version

Kentico CMS Version 6

11.2 Problem

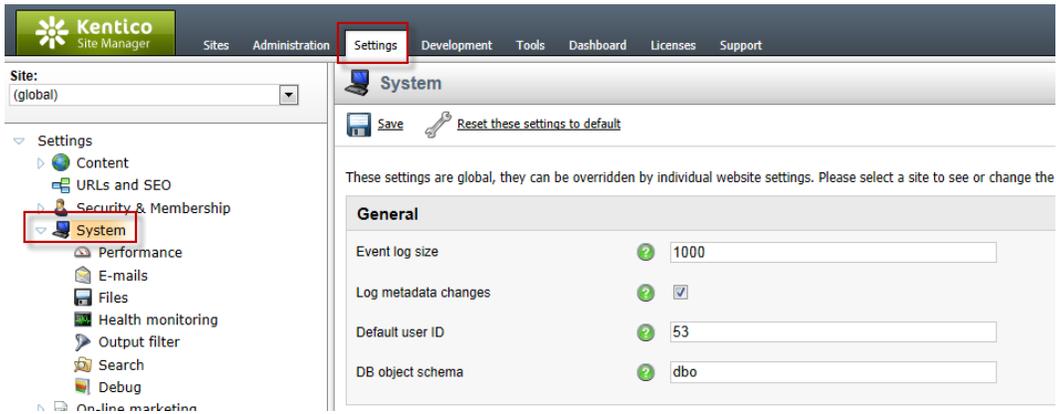
You need to configure the Kentico CMS web application to execute scheduled tasks without any site activity.

11.3 Solution

1. In the Kentico CMS **web.config** file, in the **AppSetting** section add the following key and then select **Save (Ctrl+S)**.

```
| <add key="CMSUseAutomaticScheduler" value = "true" />
```

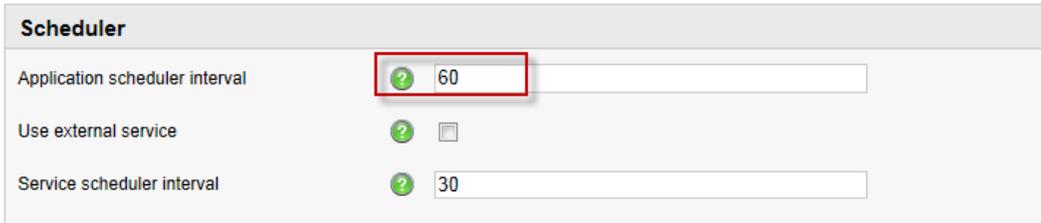
2. Log into **Site manager**, select the **Settings** tab and then select **System** as shown in the following screenshot.



The screenshot shows the Kentico Site Manager interface. The top navigation bar includes 'Sites', 'Administration', 'Settings', 'Development', 'Tools', 'Dashboard', 'Licenses', and 'Support'. The 'Settings' tab is selected and highlighted with a red box. On the left sidebar, the 'Settings' menu is expanded, and the 'System' option is selected and highlighted with a red box. The main content area displays the 'System' configuration page, which includes a 'Save' button and a 'Reset these settings to default' link. Below this, a message states: 'These settings are global, they can be overridden by individual website settings. Please select a site to see or change the'. The 'General' section contains the following settings:

Setting	Value
Event log size	1000
Log metadata changes	<input checked="" type="checkbox"/>
Default user ID	53
DB object schema	dbo

3. In the **Scheduler** section in the **Application scheduler interval** field set the expected interval between checks as shown in the following screenshot.



Scheduler	
Application scheduler interval	<input type="text" value="60"/>
Use external service	<input type="checkbox"/>
Service scheduler interval	<input type="text" value="30"/>

11.4 Discussion

By default, Kentico CMS performs the check of scheduled activities tasks at the end of a standard page request. The **Application scheduler interval** setting determines the time interval after which the application checks if there are any tasks ready for execution. This means that tasks are executed only when user activity on your website is generating requests. Because of this, the **Application scheduler interval** setting actually sets the minimum interval between these checks. The scheduler can be configured to process tasks regularly according to an automatic internal time, without the need for any website activity by adding the following key to the Kentico CMS web.config AppSettings section.

```
| <add key="CMSUseAutomaticScheduler" value = "true" />
```

11.5 See also

[Configuring task execution](#)

Recipe 12: Clearing site cache

12.0 Chef

Bryan Soltis, Director of Technology & Research, Bit-Wizards/Kentico MVP

12.1 Version

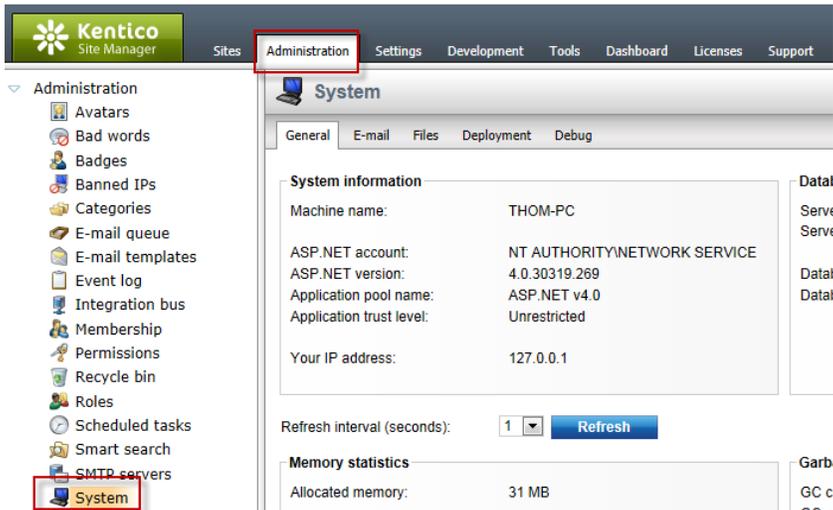
Kentico CMS Version 6

12.2 Problem

Your change to the main navigation menu or site content is not properly reflected on the Live site.

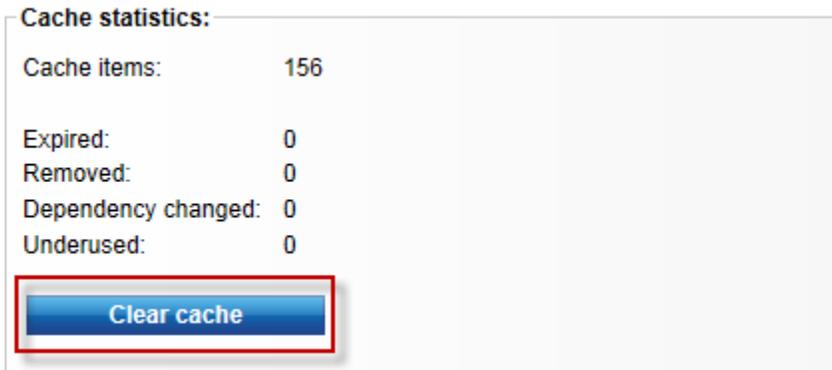
12.3 Solution

1. Log into **Site manager**, select the **Administration** tab, and then click **System** as shown in the following screenshot.



The screenshot shows the Kentico Site Manager interface. The top navigation bar includes 'Administration', 'Settings', 'Development', 'Tools', 'Dashboard', 'Licenses', and 'Support'. The left sidebar lists various administration tasks, with 'System' highlighted. The main content area displays the 'System' configuration page, which includes sections for 'System information' and 'Memory statistics'. The 'System information' section shows details such as Machine name (THOM-PC), ASP.NET account (NT AUTHORITY\NETWORK SERVICE), ASP.NET version (4.0.30319.269), Application pool name (ASP.NET v4.0), Application trust level (Unrestricted), and Your IP address (127.0.0.1). The 'Memory statistics' section shows Allocated memory (31 MB). A 'Refresh' button is visible next to a refresh interval dropdown set to 1 second.

2. In the **Cache statistics** panel click the **Clear cache** button as shown in the following screenshot.



12.4 Discussion

Caching enables reuse and stores page outputs or application data across HTTP requests. This means the application doesn't have to recreate information, saving time and resources. This is an incredibly important part of building a high performance, scalable web site.

The **Cache statistics** panel contains the following information.

Field	Value
Cache items	Number of items in the system cache.
Expired	Number of expired cache items in the system cache.
Removed	Number of items removed from the system cache since last restart.
Dependency changes	Number of cache items dropped based on the change of their dependencies.
Underused	Number of cache items dropped earlier than configured, possibly due to lack of memory.
Clear cache	When selected clears all items currently stored in the cache.

When the **Clear cache** button is clicked all cache items currently in memory for the application is cleared. This may results in longer load times for the site until all items are collected in the cache again.

See Also

Caching options
Cache access
Caching with Kentico

Recipe 13: Enabling extensionless URLs with IIS7

13.0 Chef

Bryan Soltis, Director of Technology & Research, Bit-Wizards/Kentico MVP

13.1 Version

Kentico CMS Version 6

Kentico CMS Version 7

13.3 Problem

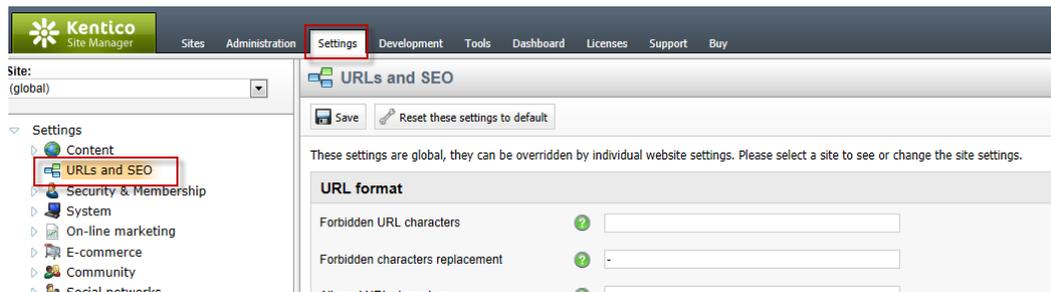
You need your site to not show the default “.aspx” page extensions.

13.4 Solution

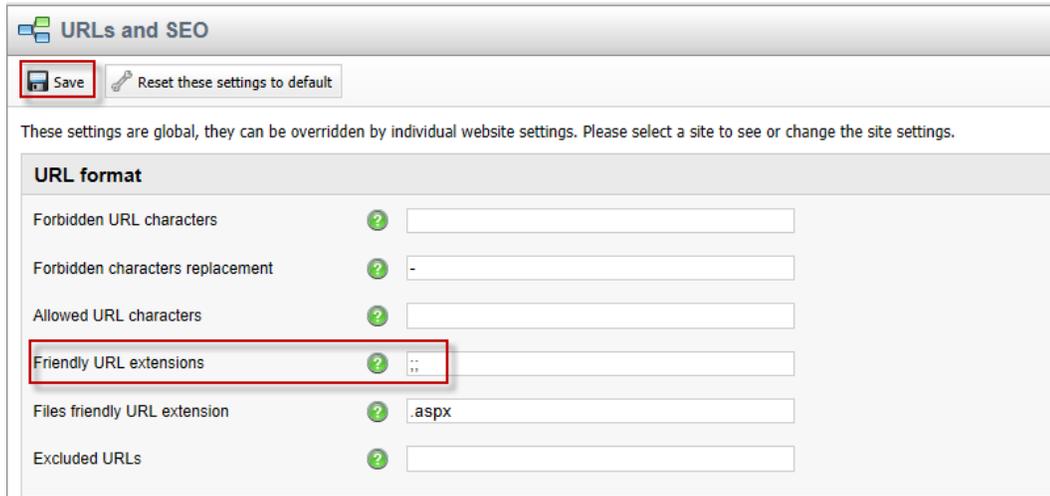
1. In the **web.config** file, in the **system.webServer** section add the following key and then select **Save (Ctrl+S)**.

```
<httpErrors existingResponse="PassThrough" /> <modules  
runAllManagedModulesForAllRequests="true">
```

2. Log into **Site manager**, select the **Settings** tab and then click the **URLs and SEO** option as shown in the following screenshot.



3. In the URL format section in the **Friendly URL extensions** field enter `;;` and then click **Save** as shown in the following screenshot.

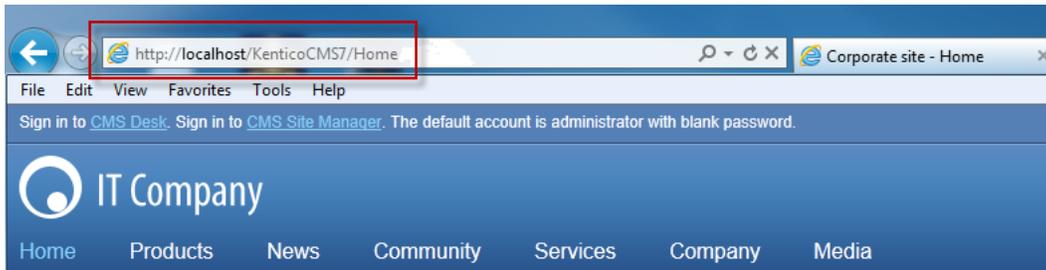


The screenshot shows the 'URLs and SEO' configuration page. At the top, there are two buttons: 'Save' (highlighted with a red box) and 'Reset these settings to default'. Below this, a message states: 'These settings are global, they can be overridden by individual website settings. Please select a site to see or change the site settings.' The main section is titled 'URL format' and contains several settings:

Setting	Value
Forbidden URL characters	
Forbidden characters replacement	-
Allowed URL characters	
Friendly URL extensions	;;
Files friendly URL extension	.aspx
Excluded URLs	

13.4 Discussion

Extensionless URLs provide a layer of technology independence and a more human shareable URL. By default, Kentico websites pages and files all use the “.aspx” extension. Once the URL format is changed within Kentico, this allows rendered pages and files to not require an extension as shown in the following screenshot.



Cooking note

It is also recommended to configure a custom Page-not-found (404) error page when using URL extensions. This will prevent a blank page from displaying when a user accesses a non-existing resource.

13.5 See Also

[Custom URL extensions and extension less URLs](#)

Recipe 14: Create a Page template

14.0 Chef

Radek Macalik, Support Engineer, Kentico CMS

14.1 Version

Kentico CMS Version 6

Kentico CMS Version 7

14.2 Problem

You need to create new Page template.

14.3 Solution

Create the page template category and then create the page template object.

Creating the page template category

With the `CMS.PortalEngine.PageTemplateCategoryInfo` class populate the page template category information and then update the `CMS.PortalEngine.PageTemplateCategoryInfoProvider` class.

Creating a `CMS.PortalEngine.PageTemplateCategoryInfo` class:

```
| CMS.PortalEngine.PageTemplateCategoryInfo newCategory = new  
| CMS.PortalEngine.PageTemplateCategoryInfo();
```

Update the `CMS.PortalEngine.PageTemplateCategoryInfoProvider` class:

```
| PageTemplateCategoryInfoProvider.SetPageTemplateCategoryInfo(newCateg  
| ory);
```

Creating the page template object

With the `CMS.PortalEngine.PageTemplateInfo` class populate the page template information and then update the `CMS.PortalEngine.PageTemplateInfoProvider` class.

Creating a `CMS.PortalEngine.PageTemplateInfo` class:

```
| CMS.PortalEngine.PageTemplateInfo newTemplate = new  
| CMS.PortalEngine.PageTemplateInfo();
```

Update the `CMS.PortalEngine.PageTemplateInfoProvider` class:

```
| CMS.PortalEngine.PageTemplateInfoProvider  
| SetPageTemplateInfo(newTemplate);
```

14.4 Discussion

The `CMS.PortalEngine.PageTemplateCategoryInfo` is a data container for the page template categories. Once populated this is applied to the `CMS.PortalEngine.PageTemplateCategoryInfoProvider.SetPageTemplateCategoryInfo` class to create a new page template category. Using the new page template category the `CMS.PortalEngine.PageTemplateInfo` class populates the page template information and then is applied to the `CMS.PortalEngine.PageTemplateInfoProvider` class. The following code will create a new page template category called Example and then create a new page template with the display name of My new template.

```
//using statements needed  
//using CMS.PortalEngine;  
//using CMS.CMSHelper;  
  
//Create category  
PageTemplateCategoryInfo newCategory = new  
PageTemplateCategoryInfo();  
  
// Set the properties  
newCategory.DisplayName = "Example";  
newCategory.CategoryName = "Example";  
  
// Save the page template category  
PageTemplateCategoryInfoProvider.SetPageTemplateCategoryInfo(newCate  
gory);  
  
// Get the page template category  
PageTemplateCategoryInfo category =  
PageTemplateCategoryInfoProvider.GetPageTemplateCategoryInfo("Examp  
le");  
if (category != null)  
{  
    // Create new page template object  
    PageTemplateInfo newTemplate = new PageTemplateInfo();  
  
    // Set the properties  
    newTemplate.DisplayName = "My new template";  
    newTemplate.CodeName = "MyNewTemplate";  
    newTemplate.Description = "This is page template created  
by API Example";
```

```
        newTemplate.PageTemplateSiteID =
CMSContext.CurrentSiteID;
        newTemplate.FileName = " ";
        newTemplate.ShowAsMasterTemplate = false;
        newTemplate.IsPortal = true;
        newTemplate.InheritPageLevels = ""; // inherits all
        newTemplate.IsReusable = true;
        newTemplate.CategoryID = category.CategoryID;

        // Save the page template
PageTemplateInfoProvider.SetPageTemplateInfo(newTemplate);

        // Add to the site
        PageTemplateInfo template =
PageTemplateInfoProvider.GetPageTemplateInfo("MyNewTemplate");
        if (template != null)
        {
            int templateId = template.PageTemplateId;
            int siteId = CMSContext.CurrentSiteID;

            // Save the binding
PageTemplateSiteInfoProvider.AddPageTemplateToSite(templateId,
siteId);
        }
    }
```

Recipe 15: Logging custom events

15.0 Chef

Thom Robbins, Kentico CMS Cookbook Editor, Kentico CMS

15.1 Version

Kentico CMS Version 6

Kentico CMS Version 7

15.2 Problem

You need to log a custom event.

15.3 Solution

With the `CMS.EventLog.EventLogInfo` class populate the event information and then update the `CMS.EventLogInfo.EventLogProvider` class.

Creating a `CMS.EventLog.EventLogInfo` class:

```
| CMS.EventLog.EventLogInfo newEvent = new EventLogInfo();
```

Update the `CMS.EventLogInfo.EventLogProvider` class:

```
| EventLogProvider eventLog = new EventLogProvider();  
| eventLog.LogEvent(newEvent);
```

15.4 Discussion

The `CMS.EventLog.EventLogInfo` is a data container for the event information. Once populated this class is applied to the `CMS.EventLogInfo.EventLogProvider` class to create the new custom event. The following code will create a new logged event.

```
//Using Statements needed
//using CMS.EventLog;

// Create new event object
EventLogInfo newEvent = new EventLogInfo();

// Set the properties
newEvent.EventType = "I";
newEvent.EventDescription = "My new logged event.";
newEvent.EventCode = "APIEXAMPLE";
newEvent.EventTime = DateTime.Now;
newEvent.Source = "API Example";
newEvent.SiteID = CMSContext.CurrentSiteID;

// Create new instance of event log provider
EventLogProvider eventLog = new EventLogProvider();

// Log the event
eventLog.LogEvent(newEvent);
```

Have a recipe to submit?

If you have a recipe to add to the next edition of the Kentico CMS Cookbook or simply have a recipe request please contact thomasr@kentico.com or visit the online submission form [here](#).

Thanks to all recipe contributors and reviewers to this edition of the Kentico CMS Cookbook.

Additional Kentico CMS Resources

Kentico CMS Documentation	http://devnet.kentico.com/Documentation.aspx
Kentico CMS Knowledge Base	http://devnet.kentico.com/Knowledge-Base.aspx
Kentico CMS Videos	http://devnet.kentico.com/Videos.aspx
Kentico CMS Forums	http://devnet.kentico.com/Forums.aspx
Kentico CMS Training	http://www.kentico.com/Training