Jamcracker, Inc.

# CMS Dashboard Widget Creation

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## **Table of Contents**

Overview	. 3
Before you start	.3
Credentials & CMS Admin URL	.3
Required Skill Sets	. 3
Tasks to be performed	.4
Task 1: Create a Widget	. 5
Task 2: Add the widget to the Dashboard	.9

## Overview

The document describes the process of creating widgets in CMS for displaying in Dashboard. This activity can be performed by CMS Admin.

## Before you start

### Credentials & CMS Admin URL

You need to have the login credentials for CMS Admin. The default credential for CMS admin is admin/Root@123 and the login url will be store.sourcestore.com/cms/user/login.

Need to have the host entry in etc/hosts file because the CMS admin url is private.

### **Required Skill Sets**

You will need the following skill set to create a widget in CMS:

- Drupal Coding Knowledge
- PHP knowledge

# Tasks to be performed

You must perform 2 tasks to display the widget in Dashboard

TASK 1: Create the Widget

TASK 2: Add the widget to the Dashboard

## Task 1: Create a Widget

A widget can be added in two ways.

- 1. Online Manually add the code through the UI (Normal User)
- 2. Offline Create a Drupal Module offline and import to the system (Advanced User)

#### 1. Online - Manually Add the code through the UI

• Login to the CMS Admin Console as CMS Admin

• Click on Add block under Structure > Blocks

♠ Dashboard Content	Structure Appearanc	е Реор	e Modules	Affiliated content	Configuration	Reports	Help	
	Blocks	Add a	rotating bann	er				
Dashboard o	Blocks Export/Import	Add b	ock					
	Content types	Add n	enu block					
	Custom tokens	🖻 🛛 Bartil		€				
+ Customize dashbo	Display Suite	Boots	rap	€				
	Domains	Seve		۲				
This dashboard region	Features Click Custon	Expo		i blocks to it.				This dashboard region is empty. Click Customize
	Field dependencies	•						add blocks to it.
	Flags	•						
		•						
	Manage Dashboard	•						

- Add **Block Description** this will display as the Title of the widget. **Block body** will contain the code for the widget. Select **Text format** PHP code if this field contains any dynamic scripting of PHP or JavaScript. You can add the code here to call the API to fetch the data, process it and display in the way you want.
- Under Visibility settings > Roles Tab, Select the roles for which this widget should be visible.
- Under Visibility settings > Dashboard Tab, select "Make this widget available in Dashboard". This will
  make the newly created widget available to be added to the Dashboard. Click on Save to save the
  widget.

A Dashboard Content Structure	Appearance People Modules	Affiliated content	Configuration Report	s Help				Hello ac	Imin Log out
Home / Administration / Structure / Blocks / E	Blocks								
Blocks o				1	JSDN DEFAULT THEME	BARTIK	BOOTSTRAP	SEVEN	EXPORT
Use this page to create a new custom b	olock.								
Machine name									
Block title									
Block description * Dashboard Test Widget									
Block body * This is the text that will display in the v	vidget								
Text format PHP code							More informatio	n about text f	ormats 🕜
<ul> <li>You may post PHP code. You should i</li> </ul>	nclude php ? tags.								
The content of the block as shown to the	he user.								
Visibility settings									
Pages	Show block for specific r	oles							
Not restricted	anonymous user								
Domains	authenticated user								
Languages Not translatable, Not restricted	administrator								
Content types	store admin								
Relea	end user								
store admin, customer admin, Enterprise Admin	Enterprise Admin								
Users									
Not customizable									
Dashboard									
Save block									
									$\bigcirc$

Pages Not restricted	Show this widget in Dashboard	
Domains	Make this widget available in Dashboard	
Languages Not translatable, Not restricted		
Content types Not restricted		
<b>Roles</b> Not restricted		
<b>Users</b> Not customizable		
Dashboard		
Save block		

#### 2. Offline - Create Drupal Module offline and import to the system

If you are an advanced user who is well versed with the Drupal coding can use this method.

• Create a Drupal module offline for adding a block. Quick preview of the sample code below.

```
/**
* Implements hook_block_info().
*/
function module_name_block_info() {
 $blocks = array();
 $blocks['total cost'] = array(
  'info' => t('Total cost'),
  'cache' => DRUPAL NO CACHE,
);
}
/**
* Implements hook theme().
*/
function module_name _theme() {
 return array(
  'total_cost' => array(
    'template' => 'customer/customer-total-cost',
  )
}
```

The template file "customer-total-cost.php" will contain the code for the widget.

• Package the Module and Install the module by going to Modules > Install new module

Dashboard Content Structure Appearance Home / Administration / Modules	People Modules Affiliated content Configuration Reports Help Install new module Update Uninstall	Hello admin Log out
The configuration options have been save	L	
A There are updates available for your versi information and to install your missing up	n of Drupal. To ensure the proper functioning of your site, you should t dates.	update as soon as possible. See the available updates page for more
X There are security updates available for or more information and to install your missi	e or more of your modules or themes. To ensure the security of your se 1g updates.	rver, you should update immediately! See the available updates page for
Download additional contributed modules to extend D Regularly review and install available updates to maint	upal's functionality. in a secure and current site. Always run the update script each time a module	e is updated.
+ Install new module		

• If Install option is not available, go to the **Modules** and enable **Update Manager** Module and do the above step.

me / Administration / Modules				Ist	
Download additional contributed modu Regularly review available updates to m	les to extend l naintain a secu	Drupal's functionality. re and current site. Al	ways run the	update script each time a module is updated. Enable the Update manager module to update and install modules an	d themes.
All 37	3	Filter list update		🗹 Enabled 🕑 Disabled 🐨 Required 🕑 Unavailable	clear
No modules were enabled or disabled within the last week.	ENABLED	NAME	VERSION	DESCRIPTION	
New c No modules added within the last week.	ON	jQuery Update (jquery_update)	7.x-2.7	Update jQuery and jQuery UI to a more recent version. Required by: Owl Carousel (enabled), Owl Carousel UI (enabled), Owl Carousel Views (enabled), features_store (enabled), Mobil menu (disabled), Owl Carousel Fields (enabled)	e sliding
Administration			7 11		Configure
Authentication BEF Tests	ON	update (110n_update)	7.x-1.1	rrovides automatic downloads and updates for translations. Requires: Locale (enabled)	
Chaos tool suite	OFF	Update manager (update)	7.53	Checks for available updates, and can securely install or update modules and themes via a web interface.	

- Once the new module is installed. Go to Structure > Blocks. The block that is created using the module will be listed there. Edit the Block and Enable "Make this widget available in Dashboard" Under Visibility settings and select the Roles to which the widget should be visible as explained in the Option 1.
- Now the New widget is ready to be added to the Dashboard
- This completes **TASK 1**.

# Task 2: Add the widget to the Dashboard

• Navigate to **Structure > Manage Dashboard**.

ne / Administration / Structure / Manage Dashboar	d					
C There are security updates availabl information and to install your mis	e for one or more of your modu sing updates.	les or themes. To en	sure the security of your serv	er, you should update ir	nmediately! See the avai	lable updates page for more
Homebox pages are listed below. Each page is	accessible from a single url on yo	our site that you specif	y during page creation. You can	create as many pages as	you need. Be sure to review	w all available layout options an
ADD NEW DASHBOARD						
NAME	OPERATIONS					
laaS Resources	Edit	Layout	Settings	Flush	Export	Clone
Executive Dashboard	Edit	Layout	Settings	Flush	Export	Clone
Microsoft EA	Edit	Layout	Settings	Flush	Export	Clone
Cost Analytics	Edit	Layout	Settings	Flush	Export	Clone
laaS Resources	Edit	Layout	Settings	Flush	Export	Clone
SaaS Dashboard	Edit	Layout	Settings	Flush	Export	Clone

- Click on Layout Link against the dashboard you want to add the widget.
- Under **Enable block**, the block you have created will be listed. Select the widget and click on Save blocks.

There are security updates available information and to install your mis	le for one or more of your mod sing updates.	ules or themes. To ensure the security	of your server, you should	update immedi	ately! See the availal	ble updates page for mo
his page behave the same way as Drupal blo	ock administration page. Drag bloc	ks to whatever column you want to enabl	e it for your users. Note that	you can change t	he number of column	s in the settings page.
						Show row w
BLOCK	REGION	CUSTOM TITLE	VISIBLE	OPEN	MOVABLE	CLOSABLE
Column 1						
+ Cost by Subscriptions	Column 1 💌					
Column 2						
+ Cost by Departments	Column 2 💌					
Column 3						
+ Cost by Account	Column 3 💌				V	
Disabled						
No blocks in this column						

• Place the widget in the appropriate column and Save. Select/Unselect the checkboxes for Visible, Open, Movable & Closable as per the need.

soore strayout U						
There are security updates avail more information and to install	able for one or more of your modu your missing updates.	les or themes. To ensure the security	of your server, you shoul	d update imme	diately! See the avail	able updates page for
Layout settings have been upda	ted for Microsoft EA.					
his page behave the same way as Drupal	block administration page. Drag bloc	ks to whatever column you want to enable	e it for your users. Note tha	it you can change	e the number of colun	ins in the settings page.
						Show row we
BLOCK	REGION	CUSTOM TITLE	VISIBLE	OPEN	MOVABLE	CLOSABLE
Column 1						
+ Cost by Subscriptions	Column 1 💌			V		
+ Dashboard Test Widget	Column 1 💌					
Column 2						
↔ Cost by Departments	Column 2 💌					
Column 3						
+ Cost by Account	Column 3 💌					
Disabled						

• Now go to the Dashboard Page. The widget configured now will be displayed in the Dashboard.



• This completes **TASK 2**.