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# Srbac v 1.0.3

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## 1 What is srbac?

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Srbac is a module designed for the Yii framework <http://www.yiiframework.com/> .

It is designed to make easier the use of Yii authManager components that implements the use of Role Based Access Control (R.B.A.C.).

The authManager that srbac supports is the CdbAuthManger which uses a database to store the authorization data. Srbac offers a graphical interface for the most of RBAC actions (create / edit / delete authorization items, assigning authorization items to users etc.)

*Srbac needs Yii version 1.0.6 or higher.*

*Srbac 1.0.x branch supports only Yii 1.0.x versions.*

*For Yii versions of 1.1.x an updated srbac branch will be available when Yii v1.1 is released.*

## 2 Downloading srbac

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Srbac can be downloaded from :

The Yii Extensions page <http://www.yiiframework.com/extension/srbac/>

Google projects page : <http://code.google.com/p/srbac/downloads/list>

Also latest development code can be checked out using this command

```
svn checkout http://srbac.googlecode.com/svn/trunk/ srbac-read-only
```

## 3 Installing srbac

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To install srbac module first extract the zip file to the modules directory of your Yii application.

Then edit your configuration file according to the following:

Configure the database component:

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*For SQLite :*

```
'db' => array(  
    'class' => 'CDbConnection',  
    'connectionString' => 'sqlite:path/to/database/yourDatabase.db',  
) ,
```

*For MySQL :*

```
'db' => array(  
    'class' => 'CDbConnection',  
    'connectionString' => 'mysql:host=localhost;dbname=yourDatabase',  
    'username' => 'yourUsername',  
    'password' => 'yourPassword',  
) ,
```

## Configure AuthManager component

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```
'authManager'=>array(
    // The type of Manager (Database)
    'class'=>'CdbAuthManager',
    // The database compnent used
    'connectionID'=>'db',
    // The itemTable name (default:authitem)
    'itemTable'=>'items',
    // The assignmentTable name (default:authassignment)
    'assignmentTable'=>'assignments',
    // The itemChildTable name (default:authitemchild)
    'itemChildTable'=>'itemchildren',
),
```

## Configure srbac module:

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```
'srbac' => array(
    'userclass'=>'User',
    'userid'=>'user_ID',
    'username'=>'username',
    'debug'=>true,
    'pageSize'=>10,
    'superUser' =>'Authority',
    'css'=>srbac_red.css',
    'layout'=>'application.views.layouts.admin',
    'notAuthorizedView'=>'application.views.site.unauthorized',
    'alwaysAllowed'=>array(
        'SiteLogin', 'SiteLogout', 'SiteIndex', 'SiteAdmin',
        'SiteError', 'SiteContact'),
    'userActions'=>array(
        'Show', 'View', 'List'),
    'listBoxNumberOfLines' => 15,
    'imagesPath' => 'images',
    'imagesPack'=>'noia',
    'iconText'=>true,
)
```

Check srbac attributes for detailed information about every attribute.

## Import SbaseController (for using the auto checking access feature):

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```
'import'=>array(
    'application.modules.srbac.controllers.SBaseController',
),
```

Then point your browser to `/path/to/application/index.php?r=srbac` and you will be redirected to the installation page.

A check is performed and if everything is OK you can proceed to the instalation (There is also a choice to create some demo authorization items).

If srbac is already installed you will be prompt to overwrite the previous installation (**That will drop all tables and delete your authorization data**).

An 'Authorizer' role will be created.(You can change the name of the role through srbac configuration). This is the only user that can admin srbac (create , edit, delete roles, tasks, operations and assign them to users).

Notice that until you set `srbac debug` attribute to false anyone can admin `srbac`, and also anyone can admin `srbac` until you assign the Authorizer role to at least one user. After assigning the Authorizer role to a user is wise to set `srbac debug` attribute to false. Also you may remove or rename `srbac/views/authitem/install` folder. The `srbac` main administrator page then is :  
**`path/to/application/index.php?r=srbac/authItem/frontpage`.**

## 4 Autocreation and access checking

From version 1.02 and on you can automatically create operations/tasks for your controllers. The operations are named as `[ControllerId][Action]` (eg `PostView`, `PostDelete` etc) Also you can create 2 tasks named `[ControllerId]Viewing`, `[ControllerId]Administrating` (eg `PostViewing`, `PostAdministrating`). All operations are assigned to the administrating task, and you can select which operations are assigned to viewing task by editing the `userActions` attribute in `srbac` configuration.

If you also want `srbac` to automatically check for access in your controllers, your controllers should extend the `SBaseController` class in `srbac` module or any other class that extends this one.

`SbaseController` overrides the `beforeAction($action)` method and checks if the user has access to the current controller/action.

## 5 Internationalization

If you want to translate `srbac` texts you should set the target language in your Yii configuration file:

```
'language'=>'fr',
```

then create the following files that contain the translations :

`srbac/messages/fr/srbac.php` (you can copy `el_gr/srbac.php` and translate the messages).

`srbac/views/install/fr/installText.php` (you should translate `srbac/views/install/installText.php`)

If you want to help with translating `srbac` contact me through Yii forum :

<http://www.yiiframework.com/forum/index.php?/user/1089-spyros/>

## 6 Srbac attributes

Attribute	Type	Description (Default)
<code>\$userid</code>	string	The user's id attribute. ( <b>userid</b> )
<code>\$username</code>	string	The user's name attribute. ( <b>username</b> )
<code>\$userclass</code>	string	The users class. ( <b>User</b> )
<code>\$debug</code>	boolean	If <code>srbac</code> is in debug mode. While in debug mode <code>srbac</code> can be installed, every user can administrate <code>srbac</code> and missing translations will be marked with a red star *. ( <b>false</b> )
<code>\$pagesize</code>	integer	The number of auth items displayed in each page of the auth items list. ( <b>15</b> )
<code>\$superuser</code>	string	The name of the <code>srbac</code> administrator role. ( <b>Authorizer</b> )
<code>\$css</code>	string	The css file to use. <code>Srbac</code> will first look for the file in default applications css directory : <code>webroot.css</code> and then in <code>srbac</code> css directory : <code>application.modules.srbac.css</code> . ( <b>srbac.css</b> )
<code>\$layout</code>	string	The layout to use when rendering <code>srbac</code> views. ( The applications main layout)
<code>\$notAuthorizedView</code>	string	The view to display to users that are accessing a page without authorization. ( <b>srbac.views.authitem.unauthorized</b> )
<code>\$alwaysAllowed</code>	array	The actions that are always allowed even to guests (e.g. <code>SiteIndex</code> , <code>SiteLogin</code> ,

		SiteLogout etc ) . ( <a href="#">array()</a> )
<b>\$userActions</b>	array	operations that are assigned to viewing taskby default (e.g. Show, List, View etc). ( <a href="#">array()</a> )
<b>\$listBoxNumberOfLines</b>	integer	The number of lines in the assign view listboxes. ( <a href="#">10</a> )
<b>\$imagesPath</b>	string	The path to the srbac images directory relative to webroot. ( <a href="#">srbac.images</a> )
<b>\$imagesPack</b>	string	The images pack to use. Current packs that are available are <b>“tango”</b> and <b>“noia”</b> . If you want to use your pack you should define \$imagesPath and put there your pack (eg “myImagesPath/myPack”). * ( <a href="#">noia</a> )
<b>\$iconText</b>	boolean	Whether to show icon text next to the icons. ( <a href="#">false</a> )

\* srbac icons :

1. admin.png – 16x16 pixels : Administration of auth items
2. create.png - 16x16 pixels : Create new auth item
3. delete.png - 16x16 pixels : Delete auth items / Delete auto created auth items
4. manageAuth.png – 32x32 pixels :Managing authItems
5. preview.png - 16x16 pixels : filter auth items button.
6. update.png - 16x16 pixels : Edit an auth item.
7. users.png - 32x32 pixels : Show users assignments.
8. usersAssign.png – 32x32 pixels : Assign auth items to users
9. wizard.png - 16x16 pixels : Auto create auth items.

## 7 Bug Reporting

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Please report any bugs at the Yii Forum srbac thread :

[Yii Forum - srbac Extension](#)

Or open an issue at Google code issue tracker :

[srbac google code issue tracker](#)

## 8 Srbac history

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### Version 1.0.3

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#### *Enhancements*

- Added imagesPack attribute.User can choose which pack of images to use for the srbac icons.
- Hovering over an authItem in authItems manager will show its description.
- If an action is in alwaysAllowed array will be ignored during the autocreation of authItems.
- Added srbac attribute imagesPath to set the path to the srbac icons (create, delete, admin etc).
- Custom srbac css can be placed not only in srbac/css directory but also in default application/css directory.
- Auto create checks if task exist and displays them or not in the create tasks list.
- Auto creating of modules controllers actions.
- listBoxNumberOfLines attributes controls the number of lines in assign tabview listboxes.

#### *Bug Fixes*

- Added a default unauthorized view in case the user has not defined one.
- Fixed an IE bug in autocreation view(Thanks to 'idle sign').
- Access is now always denied to guests, except if the current page is in alwaysAllowed array.
- Fixed php short tags in views/AuthItem/userAssignments.php.
- srbac should work now in linux os.

- Changed dataGrid class to srbacDataGrid so it won't conflict with Yii dataGrid class.

### Updates

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- Added new icons and a control center top bar (Thanks to 'idle sign').
- Added new css styles and new ajax-loader (thanks to 'idle sign').
- Added noia icons pack.
- Changed custom images path relative to webroot .
- Set default css to srbac.css.
- Changed allowedAccess() method in SBaseController to protected so it can be inherited.
- Updated spanish translation (Ricardo Obregon).

## Version 1.0.2

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### Enhancements

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- When auto creating/deleting operations a check is performed to see if the items already exist.
- Srbac attribute alwaysAllowed to define in which pages checking is not performed.
- Srbac attribute userActions to define which actions are assigned to using task by default.
- layout attribute accepts path alias now.
- Automatic creation of operations based on controllers' actions.
- Also Creation of two tasks (using, administrating).
- The operations are also assigned to these tasks based on the action's name (all operations assigned to administrating and list, view, show actions to using).
- Mass delete of automatic created operations, tasks.
- Cannot revoke Authority role if there's no other user with that role.
- Custom not authorized page.
- srbac front page.
- srbac isInstalled() method.
- Added an SBaseController that must be extended for the use of automatic created auth items.

### Bug Fixes

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- Removed safe rule from authItem model.
- Changed view path to authitem instead of authItem due to case sensitivity errors in some operation systems.
- Import SBaseController in modules init method.
- Undefined variable in assignments.php (Thanks to idle sign).
- ShowAssignments ajax call (Thanks to idle sign).

### Updates

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- Russian translation updated to v1.2 (Thanks to idle sign)

## Version 1.0.1

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### Enhancements

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- Custom layout for srbac (layout must be in default application's layout folder).
- Add ajax indicators.
- Can call user assignments directly from your user's controller by  

```
$this->renderPartial(
    'application.modules.srbac.views.authItem.assignments', array( "id" => $id ) );
```

*(\$id is the user's id)*
- Spanish translation (Ricardo Obregon)
- Russian translation (idle sign)

### *Enhancements*

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- Srbac can be installed as a child module too.
- View Roles / Tasks / Operations assigned to any user.
- Delete authItems.
- Ajax based web interface for administrating auth items.
- You can select if demo data will be created in install.
- All assignments calls are made in ajax.
- You can set the name of the Authorizer authItem.
- You can update the names of the auth Items.

### *Bug Fixes*

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- Fixed undefined variable "message"(thanks to sebi).
- Fixed possible SQL-injections flaw (thanks to Anticon).
- Fixed bug when when a not-Authorizer-user tries to access SRBAC (thanks to Anticon).
- Fixed bug with deleting tables in wrong order (thanks to rabol).
- Fixed bug with wrong column name resulting in errors while working with innoDB engine(thanks to sebi).
- Fixed udefined variable errors.
- Fixed showing all items in the assigned and in the not assigned panels when accessing the assign page for the first time.
- Fixed errors when pressing '<<' or '>>' with a wrong selection of items.
- Wrong tab display after an assignment.

## 9 Contact

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You may contact me at the Yii Forum:

<http://www.yiiframework.com/forum/index.php?/user/1089-spyros/>

Or by mailing me at [Spyros@valor.gr](mailto:Spyros@valor.gr)

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