How to paginate API search results

> ⚠️ **Version compatibility**
> This recipe is compatible with **eZ Publish 5.2 / 2013.11**

Description

When listing content (e.g. blog posts), pagination is a very common use case and is usually painful to implement by hand.

For this purpose eZ Publish 5 recommends the use of Pagerfanta library and proposes adapters for it.

Usage

```php
<?php
namespace Acme\TestBundle\Controller;

use eZ\Publish\Core\Pagination\Pagerfanta\ContentSearchAdapter;
use Pagerfanta\Pagerfanta;
use eZ\Bundle\EzPublishCoreBundle\Controller;
use eZ\Publish\API\Repository\Values\Content\Query\Criterion\ContentTypeIdentifier;
use eZ\Publish\API\Repository\Values\Content\Query;

class DefaultController extends Controller
{
    public function myContentListAction( $locationId, $viewType, $layout = false,
array $params = array() )
    {
        // First build the search query.
        // Let's search for folders, sorted by publication date.
        $query = new Query();
        $query->criterion = new ContentTypeIdentifier( 'folder' );
        $query->sortClauses = array( new SortClause\DatePublished() );

        // Initialize the pager.
        // We pass the ContentSearchAdapter to it.
        // ContentSearchAdapter is built with your search query and the SearchService.
        $pager = new Pagerfanta(
            new ContentSearchAdapter( $query,
$this->getRepository()->getSearchService() )
        );
        // Let's list 2 folders per page, even if it doesn't really make sense ;-)
        $pager->setMaxPerPage( 2 );
        // Defaults to page 1 or get "page" query parameter
        $pager->setCurrentPage( $this->getRequest()->get( 'page', 1 ) );

        return $this->render(
            'AcmeTestBundle::my_template.html.twig',
            array(
                'totalFolderCount' => $pager->getNbResults(),
                'pagerFolder' => $pager,
                'location' =>
$this->getRepository()->getLocationService()->loadLocation( $locationId ),
            ) + $params
        );
    }
}
```

my_template.html.twig

```twig
{% block content %}
    <h1>Listing folder content objects: {{ totalFolderCount }} objects found.</h1>

    <div>
        <ul>
        {# Loop over the page results #}
        {% for folder in pagerFolder %}
            <li>{{ ez_content_name( folder ) }}</li>
        {% endfor %}
        </ul>
    </div>

    {# Only display pagerfanta navigator if needed. #}
    {% if pagerFolder.haveToPaginate() %}
    <div class="pagerfanta">
        {{ pagerfanta( pagerFolder, 'twitter_bootstrap_translated', {'routeName':
location} ) }}
    </div>
    {% endif %}

{% endblock %}
```

⊘   For more information and examples, have a look at PagerFanta documentation.

Adapters

Adapter class name	Description
`eZ\Publish\Core\Pagination\Pagerfanta\ContentSearch Adapter`	Makes the search against passed Query and returns Content objects.
`eZ\Publish\Core\Pagination\Pagerfanta\ContentSearch HitAdapter`	Same as ContentSearchAdapter but returns instead SearchHit object s.
`eZ\Publish\Core\Pagination\Pagerfanta\LocationSearc hAdapter`	Makes a Location search against passed Query and returns Location objects.
`eZ\Publish\Core\Pagination\Pagerfanta\LocationSearc hHitAdapter`	Same as LocationSearchAdapter but returns instead SearchHit objec ts.

Historique

Versions	Description
5.4, 2014.07	Adding LocationSearch Adapter