SensioLabs



Hacking & Extending Symfony2 SF2C3

Creating a compiler pass

Goal

We want to be able to automatically register new dictionary file loaders into the word list service from another bundle.

Requirements

Adding a new **compiler pass** that processes **tagged services** and registers these services directly into the container.

What is a compiler pass?

A compiler pass allows to execute some code to modify the service container configuration just before it's compiled down to PHP code.

Examples of native compiler passes

- Resolving dynamic container parameters
- Registering Twig extensions
- Registering Doctrine event listeners
- Removing orphan services
- Optimizing the service container

Tagging services

```
<service |
    id="sensio hangman.loader.txt"
    class="%sensio hangman.loader.txt.class%"
    public="false">
    <tag name="hangman.dictionary_loader" type="txt"/>
</service>
<service
    id="sensio hangman.loader.xml"
    class="%sensio hangman.loader.xml.class%"
    public="false">
    <tag name="hangman.dictionary_loader" type="xml"/>
</service>
```

Creating a compiler pass class

```
namespace Sensio\Bundle\HangmanBundle\DependencyInjection\Compiler;
use Symfony\Component\DependencyInjection\Compiler\CompilerPassInterface;
use Symfony\Component\DependencyInjection\ContainerBuilder;

class DictionaryLoaderCompilerPass implements CompilerPassInterface
{
    public function process(ContainerBuilder $container)
    {
        // ...
    }
}
```

```
// ...
use Symfony\Component\DependencyInjection\Reference;
class DictionaryLoaderCompilerPass implements CompilerPassInterface
  public function process(ContainerBuilder $container)
    if (!$container->hasDefinition('sensio hangman.word list')) {
      return;
    $wordList = $container->getDefinition('sensio hangman.word list');
    $ids = $container->findTaggedServiceIds('hangman.dictionary_loader');
    foreach ($ids as $id => $attributes) {
        $type = $attributes[0]['type'];
        $wordList->addMethodCall('addLoader', array($type, new Reference($id)));
    $calls = $wordList->getMethodCalls();
    $calls = array reverse($calls);
    $wordList->setMethodCalls($calls);
```

Registering the compiler pass

```
namespace Sensio\Bundle\HangmanBundle;
use Sensio\[...]\DependencyInjection\Compiler\DictionaryLoaderCompilerPass;
use Symfony\Component\DependencyInjection\ContainerBuilder;
use Symfony\Component\HttpKernel\Bundle\Bundle;
class SensioHangmanBundle extends Bundle
    public function build(ContainerBuilder $container)
        $container->addCompilerPass(new DictionaryLoaderCompilerPass());
```

Creating a custom voter

Goal

We want to allow users playing the game between 8:00 am and 7:00 pm. Access to the game will be forbidden otherwise.

Requirements

The schedule range and the timezone must be configurable.

The Voter Class

```
namespace Sensio\Bundle\HangmanBundle\Security\Voter;
use Symfony\Component\Security\Core\Authorization\Voter\VoterInterface;
use Symfony\Component\Security\Core\Authentication\Token\TokenInterface;
class ScheduleVoter implements VoterInterface
    private $minHours;
    private $maxHours;
    private $timezone;
   public function construct($minHours, $maxHours, $timezone)
        $this->minHours = $minHours;
        $this->maxHours = $maxHours;
        $this->timezone = new \DateTimeZone($timezone);
```

```
namespace Sensio\Bundle\HangmanBundle\Security\Voter;
class ScheduleVoter implements VoterInterface
    public function supportsAttribute($attribute)
        return true;
    public function supportsClass($class)
        return true;
```

```
namespace Sensio\Bundle\HangmanBundle\Security\Voter;
class ScheduleVoter implements VoterInterface
    function vote(TokenInterface $token, $object, array $attributes)
        $date = new \DateTime('H', $this->timezone);
        $hours = (int) $date->format('H');
        if ($hours >= $this->minHours && $hours < $this->maxHours) {
            return self::ACCESS GRANTED;
        return self::ACCESS DENIED;
```

Register the voter as a service

```
<?xml version="1.0" ?>
<container ...>
 <parameters>
   <parameter key="sensio hangman.schedule voter.class">Sensio\[...]\ScheduleVoter</parameter>
   <parameter key="sensio_hangman.schedule_voter.min_hours »>8</parameter>
   <parameter key="sensio hangman.schedule voter.max hours">19</parameter>
   <parameter key="sensio_hangman.schedule_voter.timezone">Europe/Paris</parameter>
 </parameters>
 <services>
    <service id="sensio hangman.schedule voter"</pre>
      class="%sensio_hangman.schedule_voter.class%"
      public="false"
      <argument>%sensio hangman.schedule voter.min hours%</argument>
      <argument>%sensio hangman.schedule voter.max hours%</argument>
      <argument>%sensio hangman.schedule voter.timezone%</argument>
      <tag name="security.voter"/>
    </service>
  </services>
</container>
```

Increasing the security level

By default, the application grants the access if at least one voter returns a positive vote.

Nevertheless, the access must be denied if at least the schedule voter returns a negative decision.

Increasing the security level

```
# app/config/security.yml
security:
    access_decision_manager:
        strategy: unanimous
# [...]
```

The voter in action



Q Search on Symfony website

OK



Access Denied

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