Creating a Security Check

fork and edit tutorial (https://github.com/MobileFirst-Platform-Developer-Center/DevCenter/#fork-destination-box) | report issue (https://github.com/MobileFirst-Platform-Developer-Center/DevCenter/issues/new)

Overview

A SecurityCheck is an object responsible for obtaining credentials from a client and validate them.

securityCheckDefinition

Security checks are defined inside adapters. Any adapter can theoretically define a SecurityCheck. An adapter can either be a *resource* adapter (meaning it serves resources/content to send to the client), a *SecurityCheck* adapter, or **both**. However it is recommended to define the SecurityCheck in a separate adapter.

In your adapter XML file add an XML element called securityCheckDefinition. For example:

- The name attribute will be the name of your SecurityCheck
- The class attribute specifies the implementation of the SecurityCheck
- Some SecurityChecks can be configured with a list of property elements.

SecurityCheck implementation

The class file of your SecurityCheck is where all of the logic happens. Your implementation should extend one of the provided base classes, below.

The parent class you choose will determine the balance between customization and simplicity.

SecurityCheckWithUserAuthentication

TODO

SecurityCheckWithAttempts

TODO

SecurityCheckWithExternalization

TODO

SecurityCheck

TODO

SecurityCheckConfiguration

Each SecurityCheck implementation class can use a SecurityCheckConfiguration that defines properties available for that SecurityCheck. Each base SecurityCheck class comes with a matching SecurityCheckConfiguration class. You can create your own implementation that extends one of the base SecurityCheckConfiguration classes and use it for your custom SecurityCheck.

For example, SecurityCheckWithUserAuthentication's createConfiguration method returns an instance of SecurityCheckWithAuthenticationConfig.

```
public abstract class SecurityCheckWithUserAuthentication extends SecurityCheckWithAttempts {
    @Override
    public SecurityCheckConfiguration createConfiguration(Properties properties) {
        return new SecurityCheckWithAuthenticationConfig(properties);
    }
}
```

SecurityCheckWithAuthenticationConfig enables a property called rememberMeDurationSec.

```
public class SecurityCheckWithAuthenticationConfig extends SecurityCheckWithAttemptsConfig {
   public int rememberMeDurationSec;

   public SecurityCheckWithAuthenticationConfig(Properties properties) {
        super(properties);
        rememberMeDurationSec = getIntProperty("rememberMeDurationSec", properties, 0);
   }
}
```

Those properties can be configured at several levels:

adapter.xml

TODO

application xml?

TODO

console?

TODO

Built-in Security Checks

Also available are these out-of-the-box security checks:

- Application Authenticity (../application-authenticity/)
- Direct Update (../../using-the-mfpf-sdk/direct-update)
- LTPA (../websphere-ltpa-based-authentication/)