

Activedirectory Spring Boot Starter

Starter for configuring activedirectory authentication, optimized for service to
service
communication via caching of credentials.

Version 2.0.0-SNAPSHOT

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Runtime Dependencies

- Java \geq 1.8
- Spring Boot \geq 2.0.0.RELEASE

The module was compiled against :

- Spring Boot Actuator = 2.0.4.RELEASE

Installation

Using the starter

```
<dependency>
  <groupId>de.dm.auth</groupId>
  <artifactId>activedirectory-spring-boot-starter</artifactId>
  <version>2.0.0-SNAPSHOT</version>
</dependency>
```

The starter contains all required dependencies, including `spring-boot-starter-cache` and `ehcache`. A default `ehcache.xml` is delivered with the module, which should suffice for most use cases.

Usage

The module uses spring boot's auto-configuration mechanism to register an `AuthenticationProvider`.

If you're using spring security \geq 4.1.0 the `AuthenticationProvider` will be registered by default, unless you're already configuring an `AuthenticationManagerBuilder`. Consult the [spring security documentation](#) for more details.

If you're using spring security $<$ 4.1.0 or want to control the registration, then use the following configuration as a baseline:

```
@Configuration
public class ActiveDirectorySampleConfiguration {

    @Autowired
    @ActiveDirectoryProvider ①
    private AuthenticationProvider provider;

    @Autowired
    public void configureGlobal(AuthenticationManagerBuilder auth) {
        auth.authenticationProvider(provider);
    }

}
```

① `@Qualifier` annotation to easily inject the auto-configured `AuthenticationProvider`

Role Mapping

All ActiveDirectory groups will be converted to spring roles. The role name will be the group name converted to uppercase, prefixed with `ROLE_`. E.g. `sample-admins` will be mapped to `ROLE_SAMPLE-ADMINS`. Additionally, the user will be assigned the role `ADMIN` which is the default used by actuator endpoints.

To use the role in your app take the following configuration as an example:

```
@Configuration
public class RoleSampleConfiguration extends WebSecurityConfigurerAdapter {

    @Override
    protected void configure(HttpSecurity http) throws Exception {
        http.antMatcher("/**")
            .authorizeRequests()
            .anyRequest().hasRole("SAMPLE-ADMINS"); ①
    }

}
```

① Note that when using `hasRole` the `ROLE_` prefix has to be omitted.

Configuration

No special configuration is necessary. If you're already using ehcache in your application, you'll need to configure a cache named `authCache`. Consult the sample `ehcache.xml` below for default values.

```
<ehcache xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="http://ehcache.org/ehcache.xsd"
  updateCheck="false" monitoring="autodetect"
  dynamicConfig="true">
  <cache name="authCache" timeToLiveSeconds="30" maxEntriesLocalHeap="100"/>
</ehcache>
```

Table 1. The following properties can be configured

Name	Type	Default value	Description
security.activedirectory.cache-enabled	<code>java.lang.Boolean</code>	<code>true</code>	Enable caching of authentication.
security.activedirectory.domain	<code>java.lang.String</code>	<code>SAMPLE.INC</code>	The AD domain that users authenticate against.
security.activedirectory.url	<code>java.lang.String</code>	<code>ldaps://sample:636</code>	URL that points to an ActiveDirectory instance. Multiple URLs can be provided, separated by a single whitespace character.

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