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

Version 2.3.3-SNAPSHOT

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Runtime Dependencies

```
Java >= 1.8Spring Boot >= 2.0.0.RELEASE
```

The module was compiled against:

• Spring Boot Actuator = 2.3.3.RELEASE

Installation

Using the starter

```
<dependency>
     <groupId>de.dm.auth</groupId>
          <artifactId>activedirectory-spring-boot-starter</artifactId>
          <version>2.3.3-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.

The auto-configuration will also provide a spring boot health indicator for active directory connection (ldapHealthIndicator).

If you're using spring security >= 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:

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.

Table 1. The following properties can be configured

Name	Туре	Default value	Description
security.activedirecto ry.enabled	java.lang.Boolean	true	Enable or disable the auto configuration.
security.activedirecto ry.cache-enabled	java.lang.Boolean	true	Enable caching of authentication.
security.activedirecto ry.domain	java.lang.String	SAMPLE.INC	The AD domain that users authenticate against.
security.activedirecto ry.url	java.lang.String	<pre>ldaps://sample01:636 ldaps://sample02:636</pre>	URLs that point to one or more ActiveDirectory instances. Multiple URLs need to be separated by a single whitespace character.
security.activedirecto ry.connect-timeout	java.lang.String	1000	The timeout in milliseconds establishing a connection against an ActiveDirectory instance.
security.activedirecto ry.read-timeout	java.lang.String	5000	The timeout in milliseconds waiting for a response from an ActiveDirectory instance.

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