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

Version 2.1.0-SNAPSHOT

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## **Runtime Dependencies**

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

The module was compiled against:

• Spring Boot Actuator = 2.0.6.RELEASE

#### **Installation**

Using the starter

```
<dependency>
     <groupId>de.dm.auth</groupId>
          <artifactId>activedirectory-spring-boot-starter</artifactId>
          <version>2.1.0-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.

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.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	ldaps://sample:636	URL that points to an ActiveDirectory instance. Multiple URLs can be provided, separated by a single whitespace character.

#### License

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