

How to register a PrivilegeListener

What is a PrivilegeListener?

A **PrivilegeListener** is a java class that implements the **org.openmrs.PrivilegeListener** interface, registered instances of PrivilegeListeners get notified of all the privilege checks that are made as the application executes by invoking the `privilegeChecked()` method. The actual parameter values passed to the method are; the user for whom the check was made, the checked privilege and a boolean value that specifies if the user has the privilege or not. The listeners are registered as spring managed beans using the `@Component` annotation or from the application context file.

Registering a PrivilegeListener

1. Using the @Component annotation

```
@Component
public static class MyListener implements PrivilegeListener {

    @Override
    public void privilegeChecked(User user, String privilege, boolean hasPrivilege) {
        //...do something
    }
}
```

2. From the application context file

This approach involves 2 steps as shown below:

Coding the listener class:

```
public static class MyListener implements PrivilegeListener {

    @Override
    public void privilegeChecked(User user, String privilege, boolean hasPrivilege) {
        //...do something
    }
}
```

Registering the listener in the application context file (this could be from a module):

```
<bean id="myListener" class="org.openmrs.mypackage.MyListener" />
```

Now our listeners are ready to receive notifications as privileges checks are made.

Example Usage:

The Privilege Helper Module is a good example usage of PrivilegeListeners.