

# Basic Role-based Authorization Delegate

This authorization delegate makes decisions based on the four basic roles of "metadata reader", "reader", "writer", and "admin". These roles are assigned to principals on Fedora [resources](#). Assigned roles are inherited through the repository tree until blocked by another assignment.

The role **metadata reader** has not yet been implemented.

This authorization delegate makes use of the [Access Roles Module](#) to assign and query roles in the repository.

## Roles

- **metadata reader** - can retrieve information about Fedora Containers, but cannot retrieve content
- **reader** - can retrieve information about Fedora Containers, including content
- **writer** - all permissions of reader; can create, modify and delete Fedora Containers
- **admin** - all permissions of writer; can modify the roles assigned to Fedora Containers

## Policy

The permissions granted to these roles are fixed. Rather than consulting any declarative policy, this authorization delegate has hard-coded role-permission assignments in the source code.

## Role/Permission Matrix

	metadata reader	reader	writer	admin
read properties	X	X	X	X
read content		X	X	X
write			X	X
write roles				X

## Configuring the Basic Role-Based Authorization Delegate

See [Authorization Delegates](#) for more information on how an authorization delegate is configured.

Edit your **repo.xml** file to configure the authentication provider. The file should contain these three beans, as shown:

```
<bean name="modeshapeRepofactory" class="org.fcrepo.kernel.spring.ModeShapeRepositoryFactoryBean"
  depends-on="authenticationProvider">
  <property name="repositoryConfiguration" value="{fcrepo.modeshape.configuration:repository.json}" />
</bean>

<bean name="fad" class="org.fcrepo.auth.roles.basic.BasicRolesAuthorizationDelegate"/>

<bean name="authenticationProvider" class="org.fcrepo.auth.common.ServletContainerAuthenticationProvider">
  <property name="fad" ref="fad"/>
</bean>
```

Edit your **repository.json** file to enable an authenticated internal session between Fedora and ModeShape, so that the security section matches the example shown:

```
"security" : {
  "anonymous" : {
    "roles" : ["readonly","readwrite","admin"],
    "useOnFailedLogin" : false
  },
  "providers" : [
    { "classname" : "org.fcrepo.auth.common.ServletContainerAuthenticationProvider" }
  ]
},
```