

Lab 13 – Configuring application security

At the end of the exercise, you should be able to:

- Define Java EE security roles
- Define access for resources in an application
- Enable and verify application security

Section 1: Enabling application security

In a previous exercise, administrative security was configured. This exercise enables and configures application security. The application security allows WebSphere to provide authentication and authorization for the enterprise applications. So, unlike administrative security (which secures the administrative interfaces), application security controls who has access to which parts of the enterprise applications that are run within the application servers.

In this section of the lab, WebSphere application security is enabled through the administrative console.

Section 2: Securing the PlantsByWebSphere application

When running with application security enabled, enterprise applications can take advantage of role-based application security to restrict access to servlet and EJB resources. The PlantsByWebSphere application administration module is already configured to take advantage of application security by having a security role that is called SampAdmin and mapping to the administration module. All that the administrator is still required to do is to map the SampAdmin security role to the users or groups that exist in the runtime environment.

Java 2 security can also be used to provide fine-grained access to system resources, such as ports or sockets. Java 2 security is orthogonal to Java Platform, Enterprise Edition or Java EE security and does not require the enforcement of administrative security. In this exercise, you do not use Java 2 security.

Section 3: Exploring the details (optional)

To complete this part of the exercise, you must start the Assembly and Deploy Tools to the workspace you created earlier in this class. IBM Assembly and Deploy Tools is used to explore the EAR file to discover how security is configured.

Instructions on using IBM Assembly and Deploy Tools itself are short and to the point; you are already familiar with the Assembly and Deploy Tools from previous exercises.

