← Previous

Q34 - Programmatic Servlets Addition



Next →

34 / 67

Q34 - Programmatic Servlets Addition

Consider the following Servlet code and the ServletContainerInitializer code.

com.nullhaus.MyJar1Servlet

```
package com.nullhaus;

import javax.servlet.annotation.*;
import javax.servlet.http.*;
import javax.servlet.*;
import javax.io.*;

@WebServlet(value = "/foo/*", name="NullHaus1")
public class MyJar1Servlet extends HttpServlet {
}
```

com.nullhaus.Mylnit

```
package com.nullhaus;

import javax.servlet.*;
import java.util.*;

public class MyInit implements ServletContainerInitializer {
    public void onStartup(Set<Class<?>> c, ServletContext ctx) throws ServletException {
        try {
            Class klass = Class.forName("com.nullhaus.MyJar1Servlet");
            Class<MyJar1Servlet> clazz = (Class<MyJar1Servlet>)klass;

        Servlet s = ctx.createServlet(clazz);
        ServletRegistration.Dynamic d = ctx.addServlet("NullHaus2", s);

        d.addMapping("/baz/*");
    } catch (ClassNotFoundException e) {
        // ...
    }
}
```

Assume that the MyInit class is properly registered in the container as a ServletContainerInitializer. Choose the statements that are true:

- a. There will be at least one instance of the MyJar1Servlet named NullHaus1
- b. There will be at least one instance of the MyJar1Servlet named NullHaus2
- c. There will be exactly two instances of the MyJar1Servlet named NullHaus1 and NullHaus2 respectively
- d. A runtime exception will be thrown
- e. This code doesn't compile

Hide answer

a,b

Reference: page 62, 8.1.1 "@WebServlet"

Explanation : When the same servlet class but with different name is instantiated using programmatic addition, the container will create two instances of the servlet . The annotated one will have configuration as defined using the annotations, and the programmatic one will have its own configuration.