

# Scenario 1: Install Liberty on GCP Linux VM and Deploy Hello World WAR

#### 1. Folder Structure

#### 2. Java Servlet Code

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class HelloServlet extends HttpServlet {
   protected void doGet(HttpServletRequest req, HttpServletResponse res)
throws IOException {
    res.setContentType("text/html");
    res.getWriter().println("<html><body style='background-color:#f0f8ff;'>");
    res.getWriter().println("<h1>Hello, Liberty!</h1>");
    res.getWriter().println("</body></html>");
}
```

## 3. Compile with Servlet API

```
cd ~/liberty-app
wget https://repo1.maven.org/maven2/javax/servlet/javax.servlet-
api/4.0.1/javax.servlet-api-4.0.1.jar -O servlet-api.jar
javac -cp servlet-api.jar hello/WEB-INF/classes/HelloServlet.java
```

### 4. Create web.xml



## 5. Package WAR

```
cd hello
jar cvf hello.war *
```

## 6. Deploy WAR to Liberty

cp hello.war /opt/wlp/usr/servers/helloCubenSquare/apps/

## 7. Update server.xml

```
cat <<EOF > /opt/wlp/usr/servers/helloCubenSquare/server.xml
<server description="Hello Liberty">
    <featureManager>
        <feature>servlet-4.0</feature>
        </featureManager>
        <httpEndpoint host="*" httpPort="9080" />
        <webApplication location="hello.war" contextRoot="/hello" />
</server>
EOF
```

## 8. Restart Liberty

server restart helloCubenSquare

### 9. Access in Browser

http://<GCP\_VM\_EXTERNAL\_IP>:9080/hello

You should now see the **Hello**, **Liberty!** message with a soft blue background.