



FREE eBook

LEARNING

websphere-liberty

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#websphere

-liberty

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About

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Chapter 1: Getting started with websphere-liberty

Remarks

This section provides an overview of what websphere-liberty is, and why a developer might want to use it.

It should also mention any large subjects within websphere-liberty, and link out to the related topics. Since the Documentation for websphere-liberty is new, you may need to create initial versions of those related topics.

Examples

Installation and Setup

Download:

To set up WebSphere Liberty, download the latest zip from WASdev.net.

Layout:

Once you have the zip, extract it to any location on your file system. The basic layout of a Liberty install is the following:

```
wlp/           # WLP_INSTALL_DIR
  bin/         # location of scripts such as 'server'
  dev/         # developer resources (APIs, SPIs, and tools)
  etc/         # global customizations (server.env or jvm.options)
  lib/         # platform runtime environment
  usr/         # user directory
  servers/     # servers directory
    server_name # directory containing all information for a given server
      server.xml # (required) primary server configuration file
    apps/       # server applications folder
    dropins/    # server dropin applications folder
    logs/       # server log files
```

Detailed layout information: [Directory locations and properties](#)

Creating, starting, and stopping a server:

Action	Command
Create a server	<code>server create myServer</code>
Start a server	<code>server start myServer</code>

Action	Command
Stop a server	<code>server stop myServer</code>

Note: The `server` script is located at: `$WLP_INSTALL_DIR/bin/server`

Read [Getting started with websphere-liberty](https://riptutorial.com/websphere-liberty/topic/4871/getting-started-with-websphere-liberty) online: <https://riptutorial.com/websphere-liberty/topic/4871/getting-started-with-websphere-liberty>

Chapter 2: Deploying applications to Liberty

Examples

Deploying a simple application on the command line

1. Create a simple servlet:

```
package web.example;

import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/")
public class HelloServlet extends HttpServlet
{
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException
    {
        response.getWriter().println("Hello world!");
    }
}
```

2. Package the application into a Web Archive (.war):

```
helloapp.war
+- META-INF\
+- WEB-INF\
   +- web\example\HelloServlet.class
```

3. Add the application to your Liberty server:

```
$> mv helloapp.war $WLP_INSTALL_DIR/usr/servers/myServer/apps/
```

4. Configure your server.xml to know the application and enable the Servlet 3.1 technology:

```
$> cat $WLP_INSTALL_DIR/usr/servers/myServer/server.xml

<server>
  <featureManager>
    <feature>servlet-3.1</feature>
  </featureManager>

  <application location="helloapp.war"/>
</server>
```

5. Start the server:

```
$> server start myServer
Starting server myServer
Server myServer started with process ID 1234.
```

6. Check the console.log to verify that the application started, and what URL to find it at:

```
$> tail $WLP_INSTALL_DIR/usr/servers/myServer/logs/console.log
...
[AUDIT   ] CWWKT0016I: Web application available (default_host):
http://localhost:9080/helloapp/
[AUDIT   ] CWWKZ0001I: Application helloapp started in 0.272 seconds.
```

7. In a web browser, to go the URL `http://localhost:9080/helloapp/` as indicated in the console.log. You should see the message from your servlet:

```
Hello world!
```

Read [Deploying applications to Liberty](https://riptutorial.com/websphere-liberty/topic/7689/deploying-applications-to-liberty) online: <https://riptutorial.com/websphere-liberty/topic/7689/deploying-applications-to-liberty>

Credits

S. No	Chapters	Contributors
1	Getting started with websphere-liberty	Andy Guibert , Community
2	Deploying applications to Liberty	Andy Guibert , Azquelt