B

Installing Java EE 7 SDK

The `Java EE 7 SDK` distributions provide a free integrated development kit to build, test, and deploy Java Enterprise Edition (Java EE) based applications. You should note that SDK stands for Software Development Kit. The `SDK` also supports the newly released `Java platform, Standard Edition 7 (Java SE 7)`. With this all in one bundle, the developers can quickly install, develop, and deploy new enterprise Java technologies.

You can download this `SDK` bundle with or without Java Development Kit (JDK) from the `http://www.oracle.com/technetwork/java/javaee/downloads/index.html` URL.

This appendix discusses the system requirements to install the `Java EE 7 SDK`. In addition, you learn how to install the Java EE 7 SDK on your system.

System Requirements for Installing Java EE 7 SDK

You can install Java EE 7 SDK on various operating systems, such as Windows, `Solaris`, `Linux`, and `MacOS`. `The` installation of Java EE 7 SDK on the operating systems supports the root and non-root user installation. Windows users should have administrator rights to install the `Java EE 7 SDK` bundle, which includes the following components:

❑   Glassfish Server 4.0

❑   Glassfish Server 4.0 Web profile

❑   Java EE 7 samples

❑   Tutorial

❑   API documentation (Java docs)

The developers can also download the NetBeans 7.4 Integrated Development Environment (IDE) that contains the Glassfish Server 4.0 application server and allows you to build Java EE 7 applications.

You should ensure that your system satisfies the minimum system requirements for Java EE 7 SDK installation. Table B.1 describes the minimum system requirements for Operating Systems (OS) supporting Java EE 7 SDK:

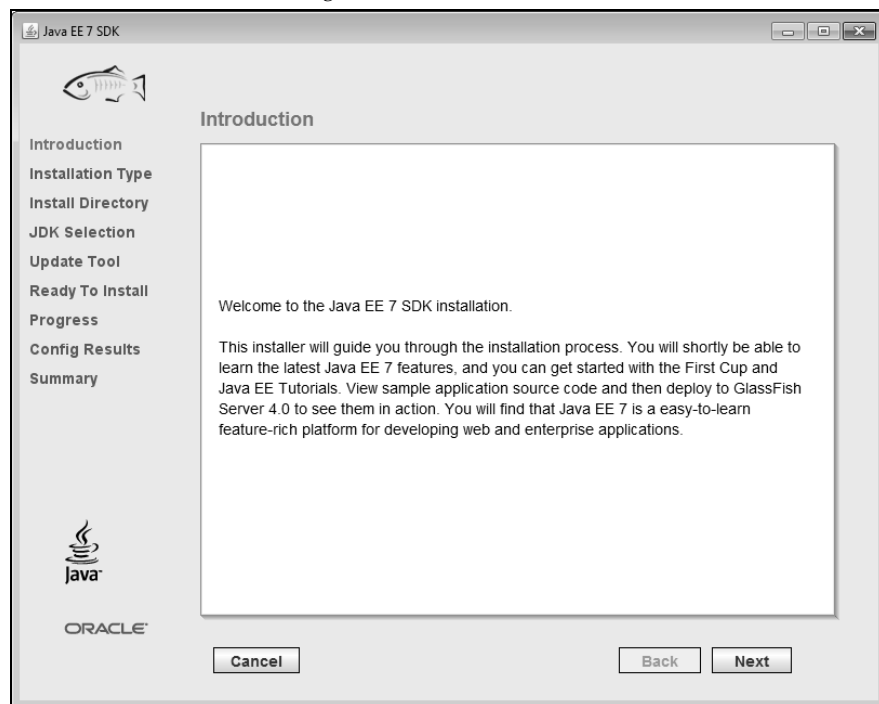| Table B.1: System Requirements for Supported Operating Systems in SDK Distributions					
Operating System	**Minimum Memory**	**Recommended Memory**	**Minimum Disk Space**	**Recommended Disk Space**	**JDK**
Solaris 11	1 GB	1 GB	250 MB free	500 MB free	JDK 7
Red Hat Enterprise Linux 6	1 GB	1 GB	250 MB free	500 MB free	JDK 7
MacOS X 10.8.2+	1 GB	1 GB	250 MB free	500 MB free	JDK 7

Table B.1: System Requirements for Supported Operating Systems in SDK Distributions					
Operating System	Minimum Memory	Recommended Memory	Minimum Disk Space	Recommended Disk Space	JDK
Windows 7 and Windows 8	1 GB	2 GB	250 MB free	500 MB free	JDK 7

After ensuring that your system meets the preceding mentioned requirements and after downloading `Java EE 7 SDK`, follow the steps discussed in the following section to install the `SDK` bundle on Windows.

Installing Java EE 7 SDK

When you download the Java EE 7 SDK distributions, you are prompted to save the java_ee_sdk-7-windows.exe file on your system. After the downloading process is complete, perform the following steps to install Java EE 7 SDK on your system:
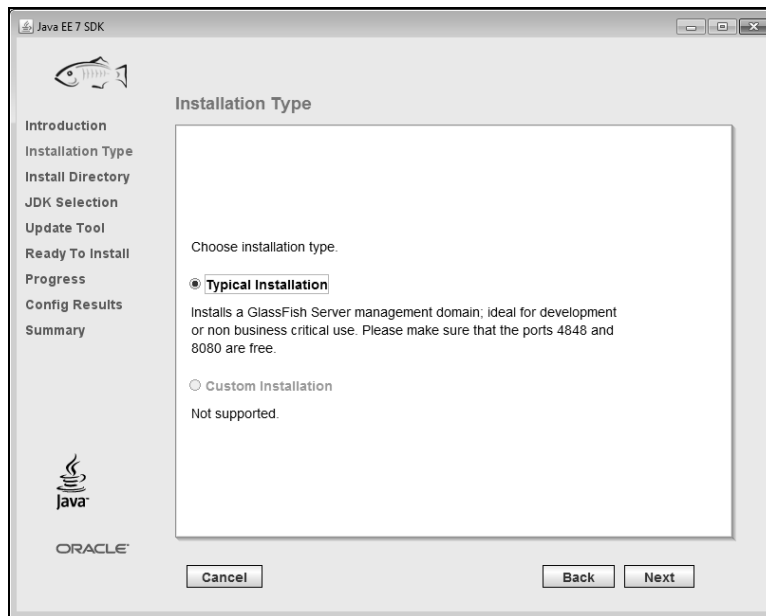
1. Double-click the java_ee_sdk-7-windows.exe file to initiate the installation program. The `Introduction` page of the Java EE 7 SDK wizard appears after a few moments (Figure B.1).

2. Click the `Next` button, as shown in figure B.1:

Figure B.1: Displaying the Introduction page while Installing Java EE 7 SDK

The `Installation Type` page is displayed (Figure B.2). The Installation Type page shows two radio buttons, Typical Installation and Custom Installation, to select the installation type (Figure B.2).
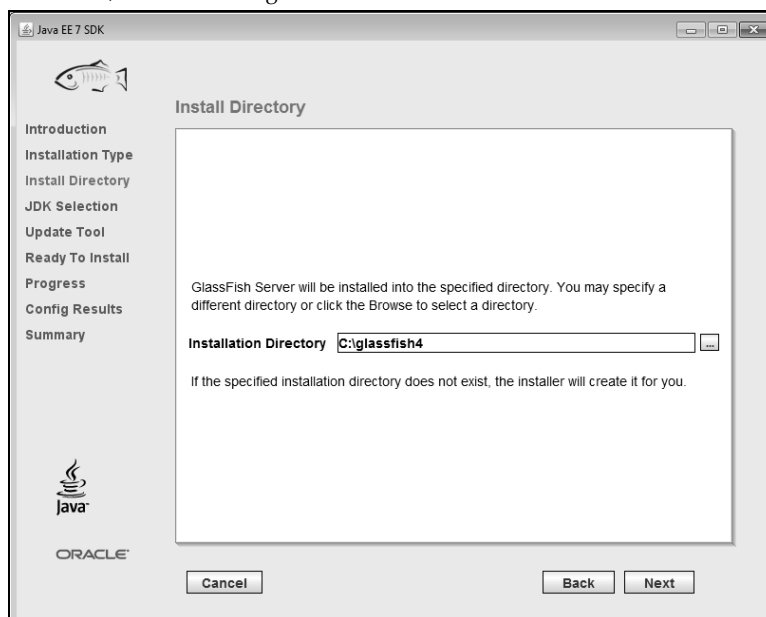
3. After selecting the required option, click the `Next` button to continue installation. In our case we have selected Typical Installation (by default selected) radio button, as shown in Figure B.2:

Figure B.2: Displaying the Installation Type Page

The Install Directory page appears (Figure B.3).

4. By default, Java EE 7 SDK is installed in the `C:/glassfishv4` directory. You can change the path of installation directory by clicking the `Browse` button. Then, locate the path where you want to install the `SDK` bundle. In our case, we select the default directory (Figure B.3).

5. Click the Next button, as shown in Figure B.3:

Figure B.3: Displaying the Selection of Installation Directory

The JDK Selection page is displayed (Figure B.4).
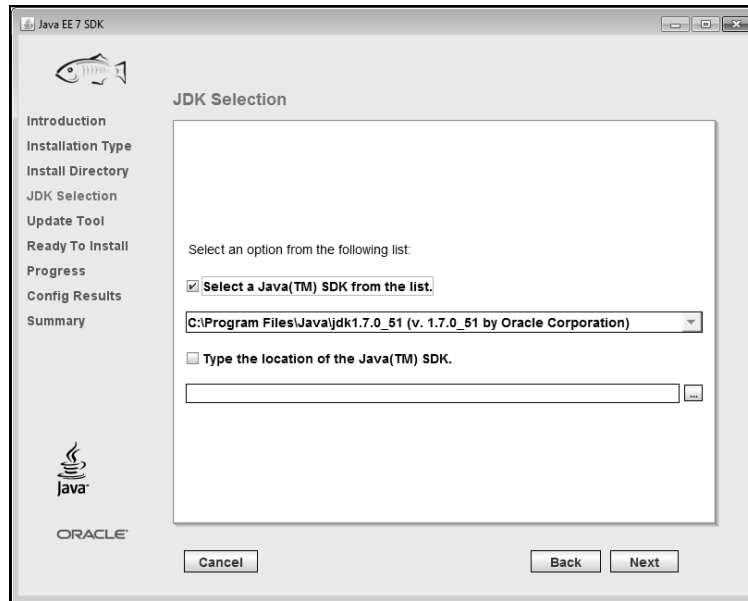
6. Click the Next button, as shown in Figure B.4:

Figure B.4: Displaying the JDK Selection Page

The Update Tool page appears (Figure B.5).

7. Uncheck the Install Update Tool checkbox (Figure B.5).
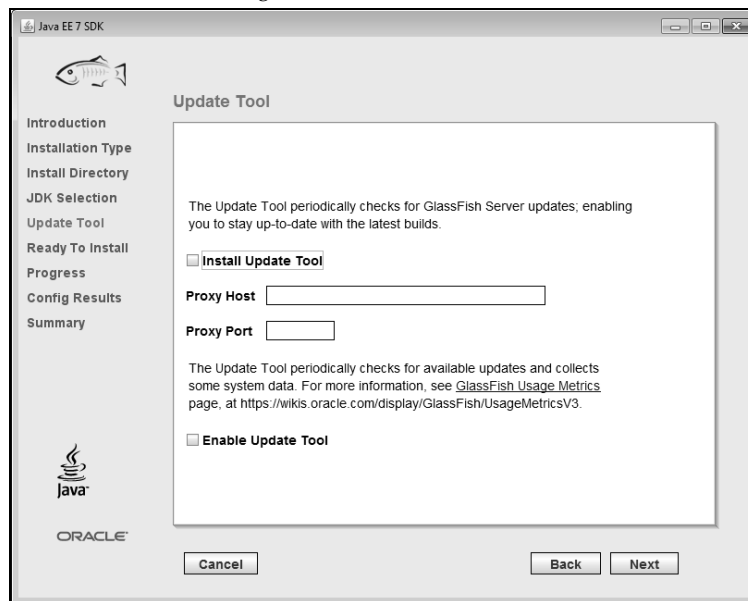
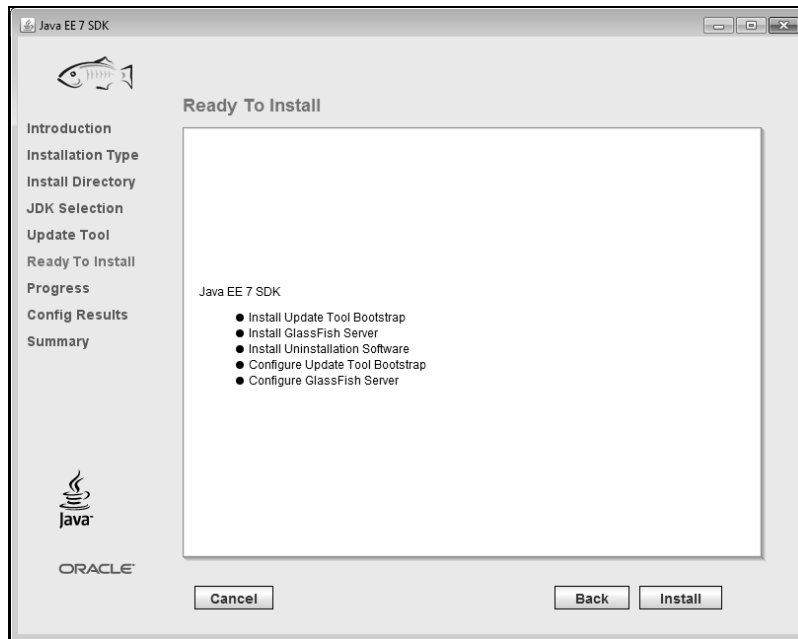8. Click the Next button, as shown in Figure B.5:

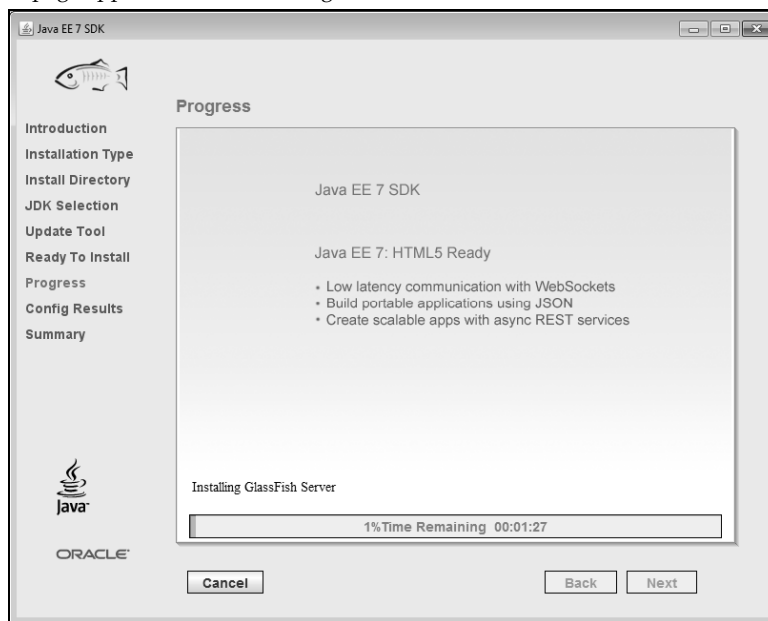**Figure B.5: Displaying the Update Tool Page**

The `Ready To Install` page appears, listing the features that are to be installed, as shown in Figure B.6:

9.   Click the `Install` button to begin the installation process, as shown in Figure B.6:

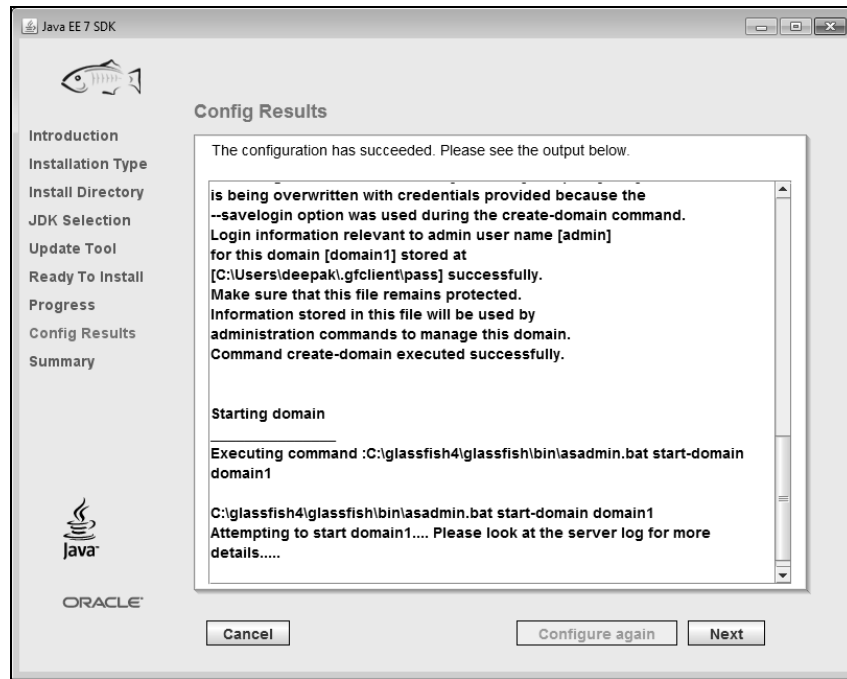**Figure B.6: Displaying the Features to be Installed**

The Progress page appears, as shown in Figure B.7:

Figure B.7: Displaying the Installation Progress

The Progress page displays the progress of the installation process, on the completion of which the `Config Results` page appears (Figure B.8).
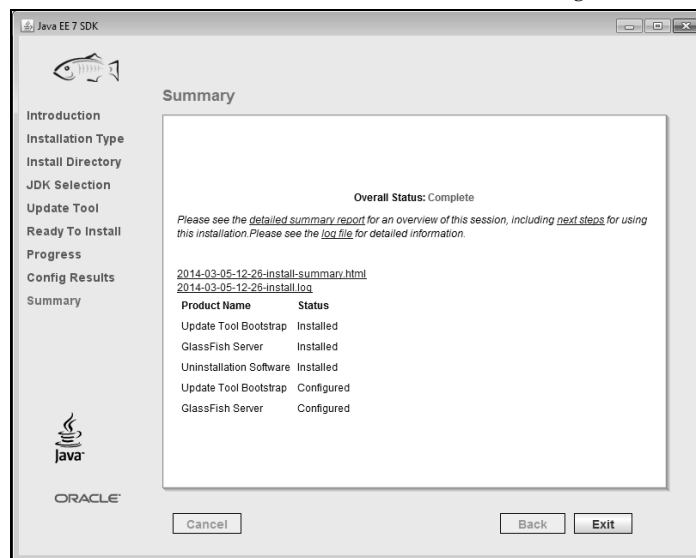
21

10. Click the Next button, as shown in Figure B.8:

Figure B.8: Displaying the Config Results Page

The `Summary` page appears containing the information about the installed features (Figure B.9).

11. Click the Exit button to close the Java EE 7 SDK wizard, as shown in Figure B.9:

Figure B.9: Displaying the Summary Page

This completes the process of installing the Java EE 7 SDK. You can verify whether or not the Application server is working properly by following these steps:
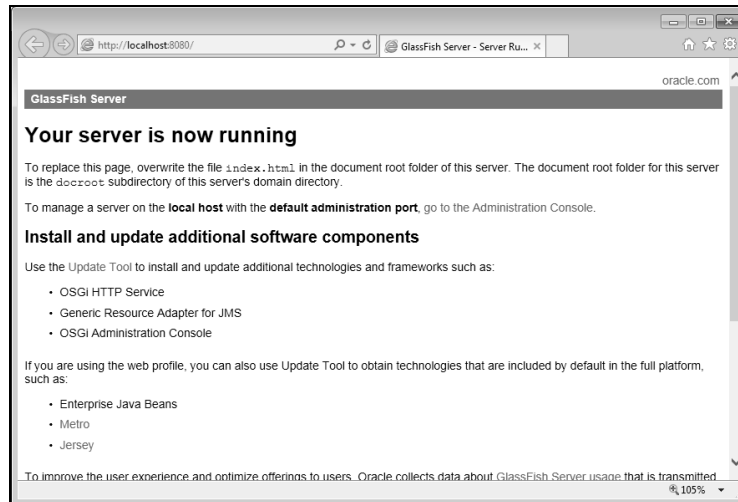
1. Start the server manually to verify the successful installation by executing the following command from the bin directory located under the installation directory:

```
asadmin start-domain domain1
```

The Application server is started.

NOTE: You can also start the Application server from the Start menu by selecting the Start→All Programs→Java EE 7 SDK→Start Application Server option.
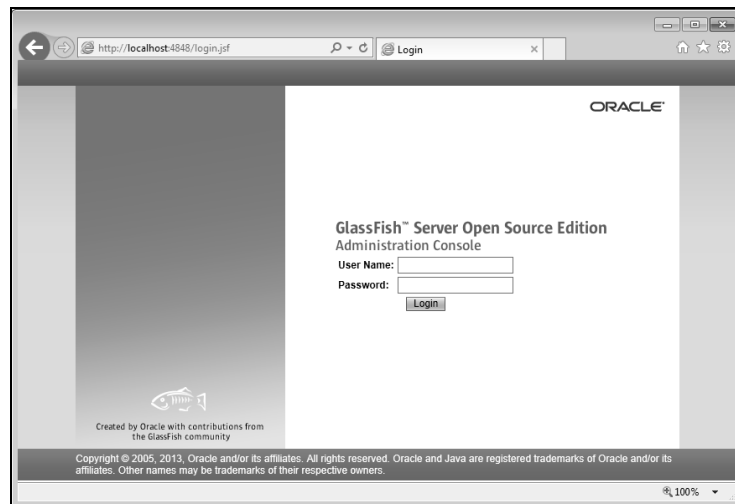
2. Open Internet Explorer and navigate to the http://localhost:8080 URL. The `Your server is now running` message is displayed, as shown in Figure B.10:

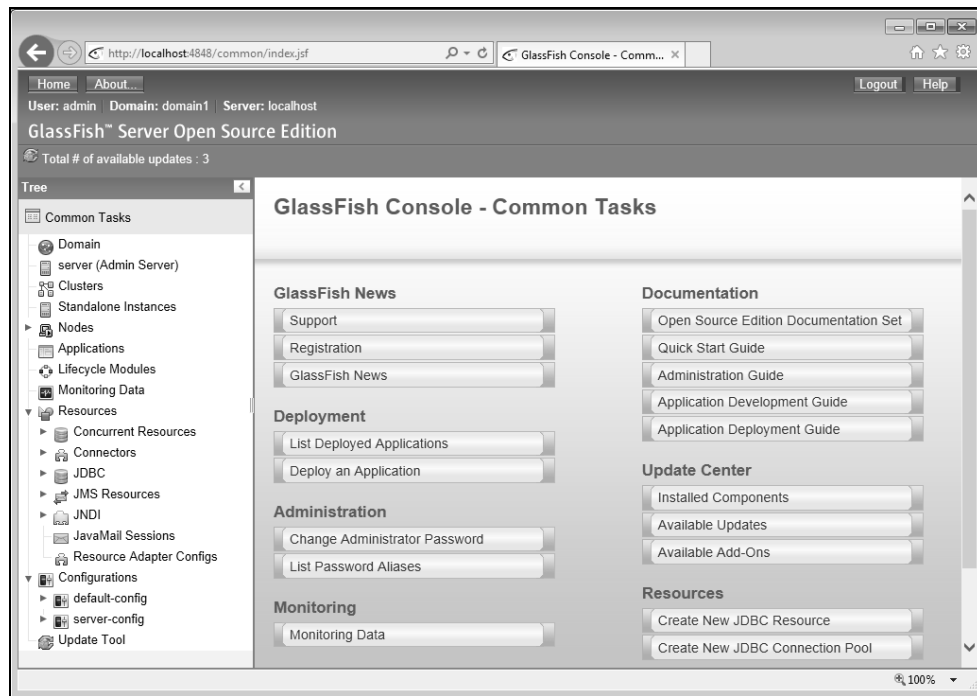**Figure B.10: Displaying the Server Running Window**

If the server is running, the browser will be displayed as shown in Figure B.10.

3. Browse `http://localhost:4848/` URL to deploy the Web or enterprise applications. The admin console appears, asking for the login details, as shown in Figure B.11:

Figure B.11: Displaying the Admin Console

4. Enter `admin` as the user name and adminadmin (default) as the password. After logging in, the `index` page appears, as shown in Figure B.12:

23

Figure B.12: Displaying the index Page of Admin Console

Figure B.12 displays the index page of the admin console that is used to deploy Web or enterprise applications. You should note that if you download the SDK bundle without JDK, you need to configure the path of JDK during installation.