

CNIT 325 - Application Development in Java

Lab 5 - Deployment

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December 2nd 2022

## Lab 5 - Deployment

### A. Create the JAR file (IntelliJ)

#### Create a JAR artifact configuration

1. From the main menu, select **File** | Project Structure (⌘+;) and click **Artifacts**.
2. Click , **point to JAR**, and select **From modules with dependencies**.
3. To the right of the Main Class field, click the **Run** button and select the Chatroom.java class.
4. Apply the changes and close the dialog

#### Build the JAR artifact

1. From the main menu, select **Build** | **Build Artifacts**.
2. Point to the created **.jar** and select **Build**.
3. If you now look at the **out/artifacts** folder, you'll find your **.jar** file there.

### B. Extract the JAR file to another system

1. **Navigate** the file path until you reach where the JAR file is stored
2. Upload a duplicate of the file to **Google Drive** or **DropBox**
3. Open the **Google Drive** or **DropBox** on a separate system and access the JAR file

### C. Examine files in jar without extracting it first

1. Open the **Terminal** app or **Command Line** app of your choice
2. **Navigate** to where the **JAR file** is located
3. Type in **jar tf <name of the jar file to examine>**

## D. Properly Executing the JAR file

### Create a run configuration

1. Press **⇧+⌘+A**, find and run the **Edit Configurations** action.
2. In the **Run/Debug Configurations** dialog, click and select **JAR Application**.
3. Add a name for the new configuration.
4. In the **Path to JAR** field, click the folder icon and specify the path to the JAR file on your computer.
5. Under **Before launch**, click **[+]** , select **Build Artifacts** in the dialog that opens.

### Execute the run configuration

1. On the toolbar, select the created configuration and click **Run** to the right of the run configuration selector. Alternatively, press **⌘ + R** if you prefer shortcuts.
2. The **Run** tool window should open and show you the application output.