SOFTWARE GUILD

Java Basics Unit

Lesson 1 - Java Installation and Hello, World CLI

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Objectives

- Download, install, and configure Java 8 on Linux

- Define JRE and JDK and know the difference

- Understand the relationship between Oracle Java and OpenJDK

- Understand what 'javac' is and does

- Create, compile, and run Hello, World

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Command Line Java Commands

- java: runs a Java program
- javac: compiles a Java program
- We'll see these in action in a bit

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Getting Java

- Java version numbering scheme
- 32-bit vs. 64-bit
- Platforms
- JDK vs. JRE
- Oracle Java
- OpenJDK

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Install and Configure Java

- ## Type

  ```
  sudo add-apt-repository
  ppa:webupd8team/java
  sudo apt-get update
  sudo apt-get install oracle-java8-
  installer
  ```

- ## Test your configuration
  o java -version

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Hello, World

- Plain text editor — why?

- Creating the program
  - Class
  - Main
  - Writing to the console

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Compile and Run

- javac HelloWorld
- java HelloWorld

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Compiler Syntax

- **Syntax**: sequence of characters that make up well formed statements in a language

- The compiler is your friend here

- Let's look at some examples of what things look like when they break...

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Questions