

Setting up Scala development with IntelliJ IDEA involves installing necessary components and configuring the environment.

1. Install IntelliJ IDEA and Scala Plugin:

- **Install IntelliJ IDEA:** Download and install the Community Edition from the JetBrains website.
- **Install Scala Plugin:**
 - Open IntelliJ IDEA.
 - Navigate to File > Settings (or IntelliJ IDEA > Preferences on macOS).
 - Select Plugins from the left-hand menu.
 - In the Marketplace tab, search for "Scala" and click Install for the Scala plugin.
 - Restart IntelliJ IDEA after installation.
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2. Configure Java Development Kit (JDK):

- Scala runs on the Java Virtual Machine (JVM), so a JDK is required.
- When creating a new Scala project, IntelliJ IDEA will prompt you to select or download a JDK if one is not already configured.
- Alternatively, go to File > Project Structure > Project SDK to add or select a JDK.
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3. Configure Scala SDK:

- When creating a new Scala project, IntelliJ IDEA will prompt you to select or download a Scala SDK.
- **Download:** If you don't have a local Scala SDK, select the Create option and choose to Download the desired Scala version (e.g., the latest stable version). IntelliJ IDEA will download and configure it.
- **Existing SDK:** If you have a local Scala SDK, choose Create and then Browse to the directory where your Scala SDK is installed.
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4. Create a Scala Project:

New Project:

- On the Welcome screen, click New Project, or go to File > New > Project.
- Select Scala from the left-hand panel.
- Choose your build system (e.g., IDEA for a native IntelliJ build, or sbt for a Scala Build Tool-based project).
- Select the configured JDK and Scala SDK.
- Name your project and choose a location.
- Click Create.

Existing Project:

Open an existing Scala project by navigating to its root directory and opening it in IntelliJ IDEA. IntelliJ IDEA will typically detect the project structure and prompt you to configure the necessary SDKs.

5. Environment Variables (Optional, for System-wide Scala):

- If you intend to use Scala from the command line outside of IntelliJ IDEA, ensure that the Scala installation directory (specifically the `bin` directory containing `scala` and `scalac` executables) is added to your system's `PATH` environment variable. This allows you to run Scala commands directly from the terminal.