Ubuntu Linux Setup

This guide will walk you through setting up the Elements Local SDK on an Ubuntu-based system. You'll install the required dependencies manually or use the provided setup script for convenience.

Manual Step-by-Step Installation

1. Install OpenJDK

Install OpenJDK 21(or later):

```
sudo apt update
sudo apt install openjdk-21-jdk -y
```

Verify the installation:

```
java -version
```

2. Install Maven

Install Maven using APT:

```
sudo apt install maven -y
```

Verify the installation:

```
mvn -version
```

3. Install Git (if not already installed)

```
sudo apt install git -y
```

---

4. Install IntelliJ IDEA (Optional but Recommended)

You can install IntelliJ IDEA via Snap:

```
sudo snap install intellij-idea-community --classic
```

Or download from:

https://www.jetbrains.com/idea/download/

---

5. Clone and Import the Example Project

Clone the Elements example project:

```
git clone https://github.com/NamazuStudios/element-example.git
```

Then:

1. Open IntelliJ IDEA
2. Click **Open** and select the `element-example` directory
3. If prompted, import as a Maven project
4. If not prompted, right-click `pom.xml` and select **Add as Maven Project**

---

6. Run the Local SDK

1. In IntelliJ, navigate to the `dev.getelements.sdk.local` package
2. Locate and run the `LocalSdkMain` class (or the appropriate main class)
3. The local server should boot up and be accessible for testing

---

Full Setup Script (For Convenience)

To install everything in one shot, run the following in a terminal:

```
sudo apt update
sudo apt install openjdk-21-jdk maven git -y
```

To install IntelliJ (optional):

```
sudo snap install intellij-idea-community --classic
```

You’re Ready

Once you’ve completed the setup:

- You can build and run the Elements example project locally
- You’re now ready to begin backend development using the Elements SDK