

# Cooja Installation and Running Commands

## Cooja Installation & CoAP Simulation Steps

Step-by-Step: Cooja Installation & Running on Ubuntu

### 1. Install Java 17 and Ant

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```
sudo apt update
sudo apt install openjdk-17-jdk ant
```

### 2. Verify Java Installation

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```
java -version
```

Ensure it shows Java 17+

### 3. Set Java 17 as Default

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```
sudo update-alternatives --config java
```

Choose the Java 17 option.

### 4. Navigate to Contiki-NG Cooja Directory

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```
cd ~/contiki-ng/tools/cooja
```

### 5. Run Cooja Simulator

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```
./gradlew run
```

### 6. Create and Save Simulation in Cooja GUI

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File -> New Simulation -> Add Mote -> Compile your coap-server.c  
Then File -> Save Simulation as 'coap-server.csc'

### 7. Build for Cooja in Terminal

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```
cd ~/contiki-ng/examples/coap/coap-example-server
make TARGET=cooja coap-server
```

### 8. Run Simulation via Terminal

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```
make TARGET=cooja coap-server.csc
```