 Installation step in detail:

1. **Install XAMPP:**
   * Go to <https://www.apachefriends.org/download.html>
   * Download XAMPP for Windows (PHP version 7.0 or higher)
   * Run the installer (xampp-windows-x64-[version].exe)
   * During installation:
     + Choose components (at minimum need Apache and PHP)
     + Select installation directory (default is C:\xampp)
     + Complete the installation
   * Start XAMPP Control Panel
   * Click "Start" button next to Apache
2. **Install Python 3.x:**
   * Visit <https://www.python.org/downloads/>
   * Download latest Python 3.x Windows installer
   * Run the installer
   * Important: Check "Add Python to PATH" during installation
   * Choose "Customize installation"
   * Select all optional features
   * Click Install
   * Verify installation by opening cmd and typing:

python --version

1. **Install Python Packages:**
   * Open Command Prompt as Administrator
   * Run these commands:

pip install scapy

pip install requests

* + Datetime comes built-in with Python, no need to install

1. **Setup Project Files:**
   * Create directory in XAMPP's htdocs:

C:\xampp\htdocs\maltrail-php

* + Copy all project files to this directory:
    - classifier.php
    - sniffer.py
    - public/index.php
    - public/submit.php

1. **Configure Permissions:**

C:\xampp\htdocs\maltrail-php\logs

* + Right-click on logs folder → Properties → Security
  + Add "Everyone" with Full Control permissions
  + Create log.json file inside logs directory
  + Make sure it's writable

1. **Test Installation:**
   * Start XAMPP Control Panel
   * Start Apache service
   * Open browser and visit:

http://localhost/maltrail-php/public/index.php

* + Should see the dashboard (empty at first)

1. **Run the Sniffer:**
   * Open Command Prompt as Administrator
   * Navigate to project directory:

cd C:\xampp\htdocs\maltrail-php

* + Run sniffer:

python sniffer.py

* + You should see: "Starting packet sniffing with Naive Bayes classifier..."

1. **Verify System:**
   * Dashboard should be accessible at http://localhost/maltrail-php/public/index.php
   * Sniffer should be running without errors
   * Network traffic should appear in the dashboard
   * Log file should be created at logs/log.json