

# Dashboard Setup Guide

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## Quick Start

### Windows

```
# Option 1: Automatic setup via main launcher
.\launcher.bat
# Select option 4: Results Dashboard

# Option 2: Manual setup
.\scripts\windows\setup-dashboard-venv.bat      # One-time setup
.\scripts\windows\dashboard-launcher-venv.bat   # Launch dashboard
```

### Linux/macOS

```
# Option 1: Automatic setup via main launcher
./launcher.sh
# Select option 5: Results Dashboard

# Option 2: Manual setup
chmod +x scripts/linux/setup-dashboard-venv.sh
./scripts/linux/setup-dashboard-venv.sh      # One-time setup
./scripts/linux/dashboard-launcher-venv.sh   # Launch dashboard
```

## What Gets Installed

The setup creates a Python virtual environment with these packages:

- **streamlit** - Web dashboard framework
- **plotly** - Interactive charts
- **pandas** - Data processing
- **watchdog** - File system monitoring






## Virtual Environment Details

- **Location:** `venv-dashboard/` (automatically created)
- **Isolated:** Doesn't affect your system Python
- **Persistent:** Created once, reused for future launches
- **Auto-managed:** Setup and activation handled automatically

## Accessing the Dashboard

Once launched, the dashboard opens at: **`http://localhost:8501`**

## Features

-  **Auto-refresh:** Monitors **results/** folder for new reports
-  **Interactive Charts:** Real-time visualization of test data
-  **Client Analysis:** Player performance, traffic patterns
-  **Server Analysis:** Port activity, connection metrics
-  **Web-based:** Access from any browser on your network

## Troubleshooting

If you encounter issues:

1. **Python not found:** Install Python 3.8+ and ensure it's in your PATH
2. **Permission errors:** On Linux, run **chmod +x \*.sh** to make scripts executable
3. **Network issues:** Check if port 8501 is available
4. **Dependencies fail:** Ensure you have internet access for package installation

The virtual environment keeps everything clean and isolated from your system Python installation!