LogWatcher & TrayHelper - ReadMe

This guide explains how to install, configure, and test the LogWatcher monitoring tool with its TrayHelper companion.

Files to Keep (for running & installation):

1   LogWatcher.exe – Engine
2   TrayHelper.exe – Tray (system tray icon)
3   config.json – Configuration file
4   logwatcher.ico – Tray icon
5   Install_Both.bat – Installer script
6   Uninstall_Both.bat – Uninstaller script
7   Terminals/ (optional, only for local test logs)

Files you can delete (development/build artifacts):

1   build/ – PyInstaller scratch files
2   dist/ – PyInstaller output (EXEs already copied to root)
3   *.spec – Build recipes (only needed if rebuilding)
4   version_info (txt) – Build metadata
5   watcher.py – Source code (not required for runtime)
6   TrayHelper.py – Source code (not required for runtime)
7   Duplicate Install_Both.txt – Keep only the batch (.bat) file

Installation:

1   Copy all required files into C:\LogMonitor (or your chosen directory).
2   Run Install_Both.bat as Administrator.
3   This will: (1) register LogWatcher as a SYSTEM task, (2) add TrayHelper to Startup, (3) launch TrayHelper immediately.
4   Windows Security may block EXEs. If so, open Windows Security → Protection history → Allow the file.

Uninstallation:

1   Run Uninstall_Both.bat as Administrator.
2   This will: (1) stop & delete the LogWatcher SYSTEM task, (2) kill TrayHelper, (3) remove its Startup shortcut.

Configuration (config.json):

Edit config.json with your log paths, regex patterns, and email settings. Example:

```
{ "LogPaths": ["C:/LogMonitor/Terminals/Terminal-*/Logs/*server.log"], "Patterns": [
{ "Name": "Terminal Busy", "Regex": "Terminal Status\s*:\\\s*Unavailable",
"CooldownMinutes": 5 } ], "Email": { "Server": "smtp.gmail.com", "Port": 587,
"UseStartTLS": true, "From": "your@gmail.com", "Password": "your_app_password",
"To": ["recipient@gmail.com"], "SubjectPrefix": "[LogMonitor]" },
"PollIntervalSeconds": 2 }
```

Quick Test:

1. Create test log folder: C:\LogMonitor\Terminals\Terminal-1\Logs
2. Inside, create file server.log and add line: Terminal Status : Unavailable (Terminal Port is busy)
3. Wait ~2s. If config.json is correct, LogWatcher will detect the pattern and send an email.

Troubleshooting:

1. If you see JSONDecodeError → check commas/quotes in config.json.
2. If no email is sent → check SMTP app password and Windows Security logs.
3. If tray icon shows blue dot → logwatcher.ico missing or unreadable.