

Mathes Online Utilities - Shutdown & Restart Checklist

SHUTDOWN PROCEDURE

Step 1: Stop All Services (PowerShell as Admin)

```
powershell

# Stop the tasks
Stop-ScheduledTask -TaskName "Cloudflared Tunnel"
Stop-ScheduledTask -TaskName "Flask Excel Backend"
Stop-ScheduledTask -TaskName "Flask Full Edit Backend"

# Disable auto-restart on reboot
Disable-ScheduledTask -TaskName "Cloudflared Tunnel"
Disable-ScheduledTask -TaskName "Flask Excel Backend"
Disable-ScheduledTask -TaskName "Flask Full Edit Backend"
```

Step 2: Update Landing Page to Show Offline Status

Edit `D:\excel-web-interface\index.html` in the CONFIG section:

Find the Movies & Shows card and change:

```
javascript

{
  icon: "🎬",
  title: "Movies & Shows",
  description: "Full CRUD editor... (Currently offline)", // Add this
  buttons: [
    {
      text: "Full Editor",
      url: "...",
      style: "disabled" // Change from "primary" to "disabled"
    },
    {
      text: "Quick Add",
      url: "...",
      style: "disabled" // Change from "secondary" to "disabled"
    }
  ]
}
```

Then push the update:

```
powershell
```

```
cd D:\excel-web-interface
```

```
git add index.html
```

```
git commit -m "Mark Movies & Shows as offline"
```

```
git push origin main
```

Wait 1-2 minutes for GitHub Pages to deploy.

Step 3: Verify Everything is Stopped

```
powershell
```

```
# Check ports are no longer listening
```

```
netstat -ano | findstr :5000
```

```
netstat -ano | findstr :5001
```

```
# Should return nothing
```

```
# Check cloudflared isn't running
```

```
Get-Process -Name cloudflared -ErrorAction SilentlyContinue
```

```
# Should return nothing
```




```
# Check Flask apps aren't running
```

```
Get-Process -Name python -ErrorAction SilentlyContinue | Where-Object {$_.Path -like "*Python313*"}
```

```
# Should return nothing related to your backends
```

Step 3: Test Shutdown Complete

Open browser and test:

-  <https://api.ldmathes.cc/api/health> → Should timeout/fail
-  <https://api-edit.ldmathes.cc/api/health> → Should timeout/fail
-  <https://dennyrgood.github.io/> → Still loads (static, safe)

Status: All backend services are now offline. Your machine is no longer exposing anything to the internet.

RESTART PROCEDURE

Step 1: Re-enable Task Scheduler Tasks (PowerShell as Admin)

```
powershell
```

```
# Re-enable the tasks
```

```
Enable-ScheduledTask -TaskName "Cloudflared Tunnel"
```

```
Enable-ScheduledTask -TaskName "Flask Excel Backend"
```

```
Enable-ScheduledTask -TaskName "Flask Full Edit Backend"
```

Step 2: Start Services

Option A: Reboot (Recommended)

```
powershell
```

```
Restart-Computer
```

All services will auto-start on boot.

Option B: Manual Start (No Reboot)

```
powershell
```

```
# Start each task manually
```

```
Start-ScheduledTask -TaskName "Cloudflared Tunnel"
```

```
Start-ScheduledTask -TaskName "Flask Excel Backend"
```

```
Start-ScheduledTask -TaskName "Flask Full Edit Backend"
```

```
# Wait 10 seconds for services to initialize
```

```
Start-Sleep -Seconds 10
```

Step 3: Verify Services are Running

powershell

Check Task Scheduler status

Get-ScheduledTask | **Where-Object** {\$_.TaskName -like "*Flask*" -or \$_.TaskName -like "*Cloudflared*"}

All should show "Ready" or "Running"

Check ports are listening

netstat -ano | **findstr :5000**

netstat -ano | **findstr :5001**

Should show LISTENING for both ports

Check cloudflared is running

Get-Process -Name cloudflared -ErrorAction SilentlyContinue

Should show cloudflared.exe running

Check Flask apps are running

Get-Process -Name python -ErrorAction SilentlyContinue | **Where-Object** {\$_.Path -like "*Python313*"}

Should show python.exe processes

Step 4: Test Endpoints

Backend Health Checks:

powershell

Test port 5000 backend

Invoke-WebRequest -Uri https://api.ldmathes.cc/api/health

Should return: {"status":"ok"}

Test port 5001 backend

Invoke-WebRequest -Uri https://api-edit.ldmathes.cc/api/health

Should return: {"status":"ok"}

Browser Tests:

- ☒ <https://dennyrgood.github.io/> → Landing page loads, health check shows "online"
- ☒ <https://dennyrgood.github.io/excel-web-interface/> → Quick-add form works
- ☒ <https://dennyrgood.github.io/MoviesShowsFullEdit/> → Full editor loads rows

Step 5: End-to-End Test

1. Go to <https://dennyrgood.github.io/excel-web-interface/>
2. Submit a test entry (Code: 999.1, Title: "Test Restart")
3. Verify entry appears in Excel file: `D:\OneDrive\MS\MoviesShows.xlsx`
4. Verify backup was created with timestamp

Status: All services restored and operational.

TROUBLESHOOTING

Services Won't Start

Check Task Scheduler:

```
powershell
```

```
# View task details
```

```
Get-ScheduledTask -TaskName "Flask Excel Backend" | Select-Object *
```

```
Get-ScheduledTask -TaskName "Flask Full Edit Backend" | Select-Object *
```

```
Get-ScheduledTask -TaskName "Cloudflared Tunnel" | Select-Object *
```

Manually start to see errors:

```
powershell
```

```
# Test Flask backends
```

```
cd D:\OneDrive\MS\
```

```
python excel_backend.py
```

```
# Watch for errors
```

```
# In new PowerShell window:
```

```
python excel_backend_full_edit.py
```

```
# Watch for errors
```

```
# Test Cloudflare Tunnel
```

```
D:\OneDrive\MS\cloudflared.exe tunnel run excel-backend
```

```
# Watch for errors
```

Ports Already in Use

powershell

Find what's using the port

`netstat -ano | findstr :5000`

Note the PID (last column)

Kill the process

`taskkill /PID [PID] /F`

Restart the service

`Start-ScheduledTask -TaskName "Flask Excel Backend"`

Tunnel Not Connecting

powershell

Check tunnel config

`Get-Content C:\Users\[YOUR-USERNAME]\.cloudflared\config.yml`

Verify credentials exist

`Test-Path C:\Users\[YOUR-USERNAME]\.cloudflared*.json`

Restart tunnel

`Stop-ScheduledTask -TaskName "Cloudflared Tunnel"`

`Start-Sleep -Seconds 5`

`Start-ScheduledTask -TaskName "Cloudflared Tunnel"`

GitHub Pages Not Loading

- Check repo at: <https://github.com/dennyrgood/excel-web-interface>
- Verify GitHub Pages is enabled: Settings → Pages
- Wait 1-2 minutes for deployment
- Hard refresh browser: Ctrl + F5



QUICK REFERENCE

Current Configuration

Service	Port	Tunnel URL	Task Name
Quick-Add Backend	5000	api.ldmathes.cc	Flask Excel Backend
Full Editor Backend	5001	api-edit.ldmathes.cc	Flask Full Edit Backend
Cloudflare Tunnel	N/A	N/A	Cloudflared Tunnel

File Locations

Item	Location
Python	D:\Misc\Python313\python.exe
Backend Scripts	D:\OneDrive\MS\
Quick-Add	D:\OneDrive\MS\excel_backend.py
Full Editor	D:\OneDrive\MS\excel_backend_full_edit.py
Excel File	D:\OneDrive\MS\MoviesShows.xlsx
Cloudflared	D:\OneDrive\MS\cloudflared.exe
Tunnel Config	C:\Users\[USERNAME]\.cloudflared\config.yml
GitHub Repo	D:\excel-web-interface\

Key URLs

Purpose	URL
Landing Page	https://dennyrgood.github.io/
Quick-Add Form	https://dennyrgood.github.io/excel-web-interface/
Full Editor	https://dennyrgood.github.io/MoviesShowsFullEdit/
Port 5000 Health	https://api.ldmathes.cc/api/health
Port 5001 Health	https://api-edit.ldmathes.cc/api/health



OPTIONAL: COMPLETE REMOVAL

If you want to permanently remove the project (not just pause):

1. Delete Task Scheduler Tasks

```
powershell
```

```
Unregister-ScheduledTask -TaskName "Cloudflared Tunnel" -Confirm:$false
Unregister-ScheduledTask -TaskName "Flask Excel Backend" -Confirm:$false
Unregister-ScheduledTask -TaskName "Flask Full Edit Backend" -Confirm:$false
```

2. Delete Cloudflare Tunnel

```
powershell
```

```
# List tunnels
```

```
D:\OneDrive\MS\cloudflared.exe tunnel list
```

```
# Delete tunnel
```

```
D:\OneDrive\MS\cloudflared.exe tunnel delete excel-backend
```

3. Remove DNS Records

Go to Cloudflare Dashboard → DNS → Delete:

- `api.ldmathes.cc`
- `api-edit.ldmathes.cc`

4. Delete GitHub Pages (Optional)

- Go to <https://github.com/dennyrgood/excel-web-interface/settings/pages>
- Select "None" under Source
- Or delete entire repository

5. Clean Up Local Files (Optional)

```
powershell
```

```
# Remove backend scripts
```

```
Remove-Item D:\OneDrive\MS\excel_backend.py
```

```
Remove-Item D:\OneDrive\MS\excel_backend_full_edit.py
```

```
Remove-Item D:\OneDrive\MS\cloudflared.exe
```

```
# Remove tunnel credentials
```

```
Remove-Item -Recurse C:\Users\[USERNAME]\.cloudflared\
```

```
# Remove GitHub repo clone
```








```
Remove-Item -Recurse D:\excel-web-interface\
```



- **Pause vs. Remove:** Disabling tasks = pause (can restart easily). Deleting tasks/tunnel = permanent removal.
 - **Excel File Safety:** Always remains local at `D:\OneDrive\MS\MoviesShows.xlsx`, never deleted in any scenario.
 - **GitHub Pages:** Stays live even when backends are stopped (forms just won't work).
 - **Domain:** `ldmathes.cc` remains active and registered—only the subdomains stop working.
 - **Security:** When shutdown, nothing is exposed to the internet. Your machine is secure.
-

LESSONS LEARNED

Great things accomplished in this project:

-  Set up Cloudflare Tunnel for secure external access
-  Built Flask REST APIs with full CRUD operations
-  Preserved Excel formulas and formatting programmatically
-  Created responsive web forms with GitHub Pages
-  Implemented multi-port backend architecture
-  Automated services with Windows Task Scheduler
-  Built configuration-driven, modular frontend

This was a successful experiment. You learned a ton about web architecture, Flask, Cloudflare, Excel automation, and system administration. Well done! 🎉