

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 4: 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.

Optional: Disable Cloudflare Tunnel Routes (Web Dashboard)

If you want to prevent any access attempts through Cloudflare:

1. Go to **Cloudflare Zero Trust Dashboard**: <https://one.dash.cloudflare.com/>
2. Navigate to **Networks** → **Tunnels**
3. Click on **excel-backend** tunnel
4. Go to **Public Hostname** tab
5. You'll see two routes:
 - `api.ldmathes.cc` → `http://localhost:5000`
 - `api-edit.ldmathes.cc` → `http://localhost:5001`
6. Click the **3 dots (:)** next to each route → **Delete**
7. Confirm deletion

Note: Deleting routes is optional. If the local services are stopped, the routes won't work anyway. Delete them if you want to be extra cautious or if you're shutting down for an extended period.

✓ 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 2A: Re-add Cloudflare Tunnel Routes (If Deleted During Shutdown)

If you deleted the tunnel routes from the Cloudflare dashboard during shutdown, you need to re-add them:

Method 1: Via Cloudflare Zero Trust Dashboard (Recommended)

1. Go to **Cloudflare Zero Trust Dashboard**: <https://one.dash.cloudflare.com/>
2. Navigate to **Networks** → **Tunnels**
3. Click on **excel-backend** tunnel
4. Go to **Public Hostname** tab
5. Click **Add a public hostname**

For api.ldmathes.cc:

- Subdomain:
- Domain:
- Path: (leave blank)
- Type:
- URL:
- Click **Save hostname**

For api-edit.ldmathes.cc:

- Click **Add a public hostname** again
- Subdomain:
- Domain:
- Path: (leave blank)
- Type:
- URL:
- Click **Save hostname**

Method 2: Via Command Line

```
powershell

# Add DNS routes
cloudflared tunnel route dns excel-backend api.ldmathes.cc
cloudflared tunnel route dns excel-backend api-edit.ldmathes.cc

# Restart tunnel to pick up changes
Stop-ScheduledTask -TaskName "Cloudflared Tunnel"
Start-Sleep -Seconds 5
Start-ScheduledTask -TaskName "Cloudflared Tunnel"
```

Note: Your local file should still have the ingress rules. If routes were only deleted from the dashboard, they'll automatically be recreated when the tunnel restarts.

Step 3: Update Landing Page to Show Online Status

Edit in the CONFIG section:

Find the Movies & Shows card and change:

javascript

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

Then push the update:

powershell

```
cd D:\excel-web-interface
git add index.html
git commit -m "Mark Movies & Shows as online"
git push origin main
```

Wait 1-2 minutes for GitHub Pages to deploy.

Step 4: 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 5: 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", Movies & Shows card active
- ☒ <https://dennyrgood.github.io/excel-web-interface/> → Quick-add form works
- ☒ <https://dennyrgood.github.io/MoviesShowsFullEdit/> → Full editor loads rows

Step 6: 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
```

Note: This permanently deletes the tunnel. If you restart later, you'll need to create a new tunnel with a new ID.

3. Remove DNS Records

Option A: Via Cloudflare Dashboard (Recommended)

1. Go to **Cloudflare Zero Trust Dashboard**: <https://one.dash.cloudflare.com/>
2. Navigate to **Networks** → **Tunnels**
3. Click on **excel-backend** tunnel
4. Go to **Public Hostname** tab
5. Delete both routes:
 - `api.ldmathes.cc`
 - `api-edit.ldmathes.cc`
6. Click the 3 dots (:) next to the tunnel name → **Delete tunnel**

Option B: Via Cloudflare DNS Dashboard

1. Go to **Cloudflare Dashboard**: <https://dash.cloudflare.com/>
2. Select your domain: `ldmathes.cc`
3. Go to **DNS** → **Records**
4. Find and delete CNAME records:
 - `api` → `[tunnel-id].cfargotunnel.com`
 - `api-edit` → `[tunnel-id].cfargotunnel.com`

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\
```

NOTES

- **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! 