**Setting Up a Task in PythonAnywhere**

Setting up a task in PythonAnywhere allows you to schedule your trade\_schwab\_grok4\_multi.py script (trading AAPL, MSFT, NVDA with long/short positions using Schwab’s Trader API and Grok 4) to run automatically, such as daily at 9:30 AM ET for market hours (9:30 AM–4:00 PM ET). This is ideal for your setup, as it ensures the script executes in the cloud, accessible from any computer, with Schwab Developer approval received and OAuth pending (as of July 14, 2025, 4:01 PM EDT). Below, I’ll provide step-by-step instructions to set up a scheduled task in PythonAnywhere, tailored for your script.

**Steps to Set Up a Scheduled Task in PythonAnywhere**

1. **Log In to PythonAnywhere**:
   1. Open your browser (on your Mac or any device) and go to [https://www.pythonanywhere.com/](https://www.pythonanywhere.com/).
   2. Log in with your PythonAnywhere account credentials. Note your username (e.g., yourname123).
2. **Navigate to the Tasks Tab**:
   1. From the PythonAnywhere dashboard, click the **“Tasks”** tab at the top (next to “Consoles,” “Files,” etc.).
3. **Add a New Scheduled Task**:
   1. In the “Tasks” tab, find the **“Scheduled Tasks”** section.
   2. Click **“Add a new scheduled task”** or the “+” button.
4. **Configure the Task**:
   1. **Command**: Enter the command to run your script:
   2. python3 /home/yourname123/trade\_schwab\_grok4\_multi.py
      1. Replace yourname123 with your actual PythonAnywhere username.
   3. **Schedule Time**:
      1. Set the task to start at **9:30 AM ET** (market open). Since PythonAnywhere uses UTC, convert to UTC-4 (ET): 9:30 AM ET = **1:30 PM UTC**.
      2. Select a daily schedule at **13:30 UTC** (ensure it’s set for your desired date, e.g., July 15, 2025).
   4. **Description** (optional): Add a note, e.g., “Daily trading for AAPL, MSFT, NVDA.”
   5. **Python Version**: Ensure it’s set to **Python 3.13** (matches your installed dependencies: schwab-py, pandas, numpy, requests, scikit-learn).
5. **Save the Task**:
   1. Click **“Create”** or **“Save”** to schedule the task.
   2. The task will appear in the “Scheduled Tasks” list, showing the command, time (13:30 UTC), and status.
6. **Stop Task at Market Close**:
   1. The script closes positions at 3:58 PM ET (7:58 PM UTC) but runs continuously. To stop it at 4:00 PM ET (8:00 PM UTC):
      1. Manually disable the task after 4:00 PM ET:
         * Go to “Tasks” tab, find the task, and click **“Disable”** or **“Delete”**.
      2. Alternatively, schedule a second task to kill the process at 4:00 PM ET:
         * Add another task:
         * pkill -f trade\_schwab\_grok4\_multi.py
         * Set for 8:00 PM UTC (4:00 PM ET).
         * This terminates the script to avoid running past market hours.
7. **Verify Task Setup**:
   1. Before July 15, 2025, 9:30 AM ET, ensure:
      1. The script is updated with correct credentials (Schwab App Key/Secret, Grok 4 API key) and paths (/home/yourname123/trading.log, /home/yourname123/token.json).
      2. OAuth authentication is complete (see Step 8).
   2. Check the “Tasks” tab to confirm the task is scheduled for 13:30 UTC.
8. **Complete OAuth Authentication**:
   1. Since you encountered an \"invalid\_client\", \"Unauthorized\" error, wait until July 15, 2025, 3:45 PM EDT (24 hours post-approval) for app activation.
   2. In Bash Console:
   3. python3 /home/yourname123/trade\_schwab\_grok4\_multi.py
   4. Copy OAuth URL, paste in browser, log in with Schwab brokerage credentials, click “Allow,” copy callback URL (ensure @ not %40), paste back, and verify /home/yourname123/token.json.
9. **Monitor Task Execution**:
   1. On July 15, 2025, at 9:30 AM ET, the task runs the script.
   2. Check /home/yourname123/trading.log in the “Files” tab for entries like:
   3. 2025-07-15 09:30:00 - Account Equity: $350025.00
   4. 2025-07-15 09:30:00 - AAPL - Current Price: $150.25, Grok 4 Prediction: 0.62
   5. Positions close at 3:58 PM ET, logged as “Closed long/short position.”
10. **Troubleshoot**:
    1. **Task Fails to Run**: Check the task log in the “Tasks” tab for errors (e.g., missing token.json, invalid credentials).
    2. **OAuth Error**: If \"invalid\_client\" persists, verify App Key/Secret and Callback URL (https://127.0.0.1:8182). Email [traderapi@schwab.com](mailto:traderapi@schwab.com).
    3. **No Logs**: Ensure script runs during market hours (9:30 AM–4:00 PM ET).

**Notes**

* **Free Tier Limit**: PythonAnywhere’s free tier allows one scheduled task. Upgrade to $5/month for multiple tasks if needed.
* **Dry Run**: dry\_run=True ensures safe testing.
* **Costs**: ~$4.74/day (Grok 4 subscription + API).
* **Risk Warning**: Short positions require a margin account. Test thoroughly.

I hope this helps! If you need further assistance, feel free to ask. 😊