## Automation\_DiscountMate Deployment & Scheduling Guide

## 1. Project Overview

This project automates the scraping of multiple grocery sites (Coles, Foodland, IGA,

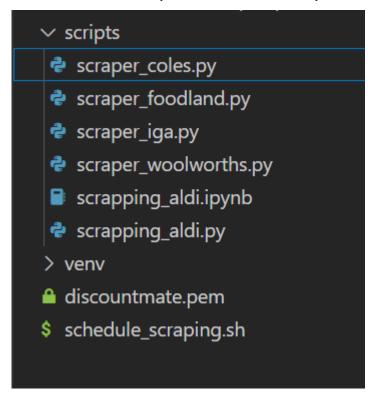
Woolworths, Aldi) on a schedule. The main driver is the `schedule\_scraping.sh` script which:

- Activates the Python virtual environment
- Runs all scraper scripts
- Converts and runs the Aldi notebook
- Deactivates the environment

#### 2. Prerequisites

- Local Windows machine with PowerShell or Git Bash
- `discountmate.pem` SSH key file
- AWS EC2 instance (Ubuntu or similar)
- Basic shell and SSH familiarity

## 3. Folder Structure (after transfer to EC2)



## 4. Step 1: Secure Your SSH Key On Windows, run:

chmod 400 discountmate.pem

### 5. Step 2: Copy the Project to EC2, Use SCP from PowerShell or Git Bash:

scp -i discountmate.pem -r E:/Automation\_DiscountMate \ ubuntu@<EC2-PUBLIC-DNS>:/home/ubuntu/

#### 6. Step 3: SSH into Your Instance

ssh -i discountmate.pem ubuntu@<EC2-PUBLIC-DNS>

## 7. Step 4: Install Python & venv

sudo apt update sudo apt install python3 python3-venv python3-pip -y

## 8. Step 5: Create & Activate Virtual Environment

cd ~/Automation\_DiscountMate

python3 -m venv venv

source venv/bin/activate

pip install -r requirements.txt # if available

pip install jupyter nbconvert # for notebook conversion

#### 9. Step 6: Adjust & Test schedule\_scraping.sh

- Open and edit the script to use `/usr/bin/env bash`
- Change `cd` to `/home/ubuntu/Automation\_DiscountMate`
- Make executable: `chmod +x schedule\_scraping.sh`
- Test: `./schedule\_scraping.sh`

### 10. Step 7: Schedule with cron -> "crontab -e"

# Add line to run daily at 3 AM:

0 3 \* \* \* /home/ubuntu/Automation\_DiscountMate/schedule\_scraping.sh >>

/home/ubuntu/scrape.log 2>&

```
Sustem load: 0.22
Usage of /: 45.7% of 6.71B
System information as of Thu May 15 07:35:45 UTC 2025
System load: 0.22
Usage of /: 45.7% of 6.71B
Memory usage: 0%

**Ubuntu Pro delivers the most comprehensive open source security and compliance features.

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**Library // Boy to receive additional future security updates.

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**Last login: Thu May 8 08:09:02 2025 from 203.123.64.129

**Lubuntu in Jun // Boy to receive addition. DiscountMate // Boy to wubuntupip-172-31-2-233:-/ Automation. DiscountMate // Boy to wubun
```

```
wbuntu@ip-172-31-2-233: ~/Automation_DiscountMate/scripts
GNU nano 7.2

# Edit this file to introduce tasks to be run by cron.

# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task

# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').

# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.

# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).

# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# O 5 * * 1 tar -zcf /var/backups/home.tgz /home/
# For more information see the manual pages of crontab(5) and cron(8)

# # Hodom mon dow command
# O 18 * * * /home/ubuntu/Automation_DiscountMate/schedual_scraping.sh >> /home/ubuntu/Automation_DiscountMate/scrap.log 2>&1
```

# 11. Troubleshooting Tips

- Permissions: re-check `chmod` settings

- Missing modules: activate venv and `pip install` errors

- Cron: check `scrape.log` for output and errors

- Time-zone: confirm server time with `date`

# **12.** Appendix: Common Commands

Task	Command
Change to project folder	cd ~/Automation_DiscountMate
Activate venv	source venv/bin/activate
Deactivate venv	deactivate
List crontab entries	crontab -l
View latest scrape log	tail -n 50 ~/scrape.log