# Guide to using **ASHLAR** on docker

Heng

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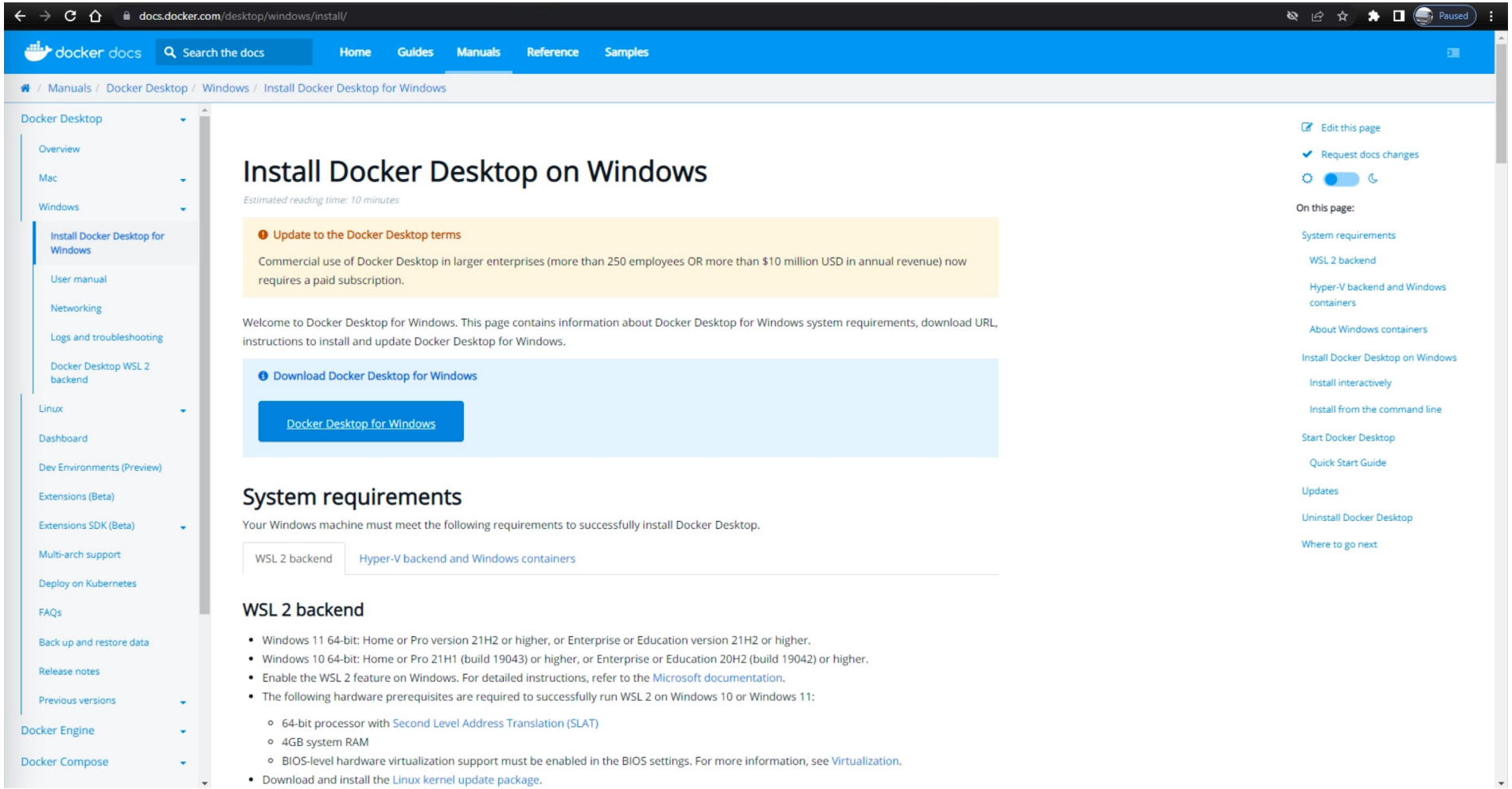
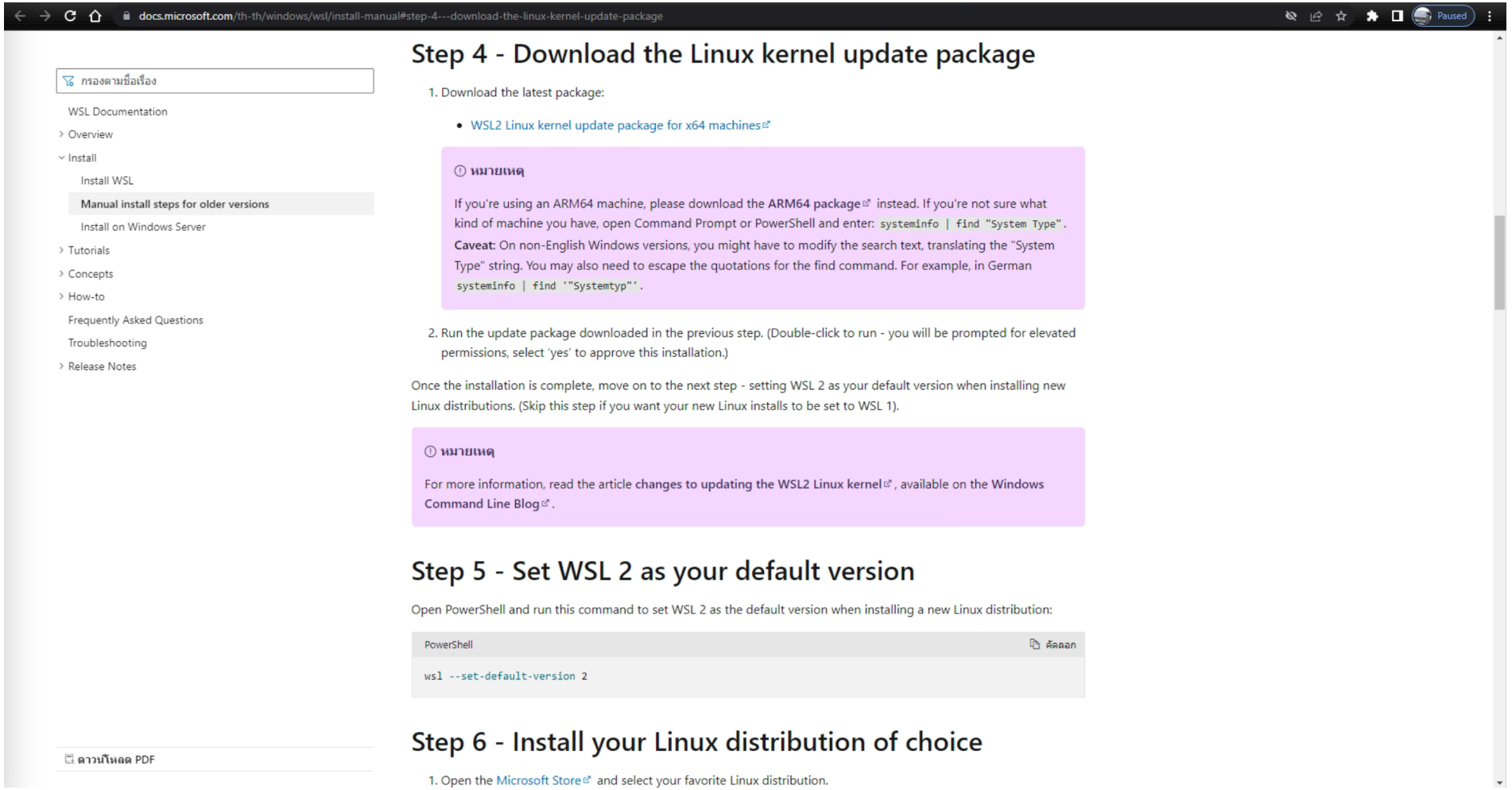
1. Install Docker Desktop

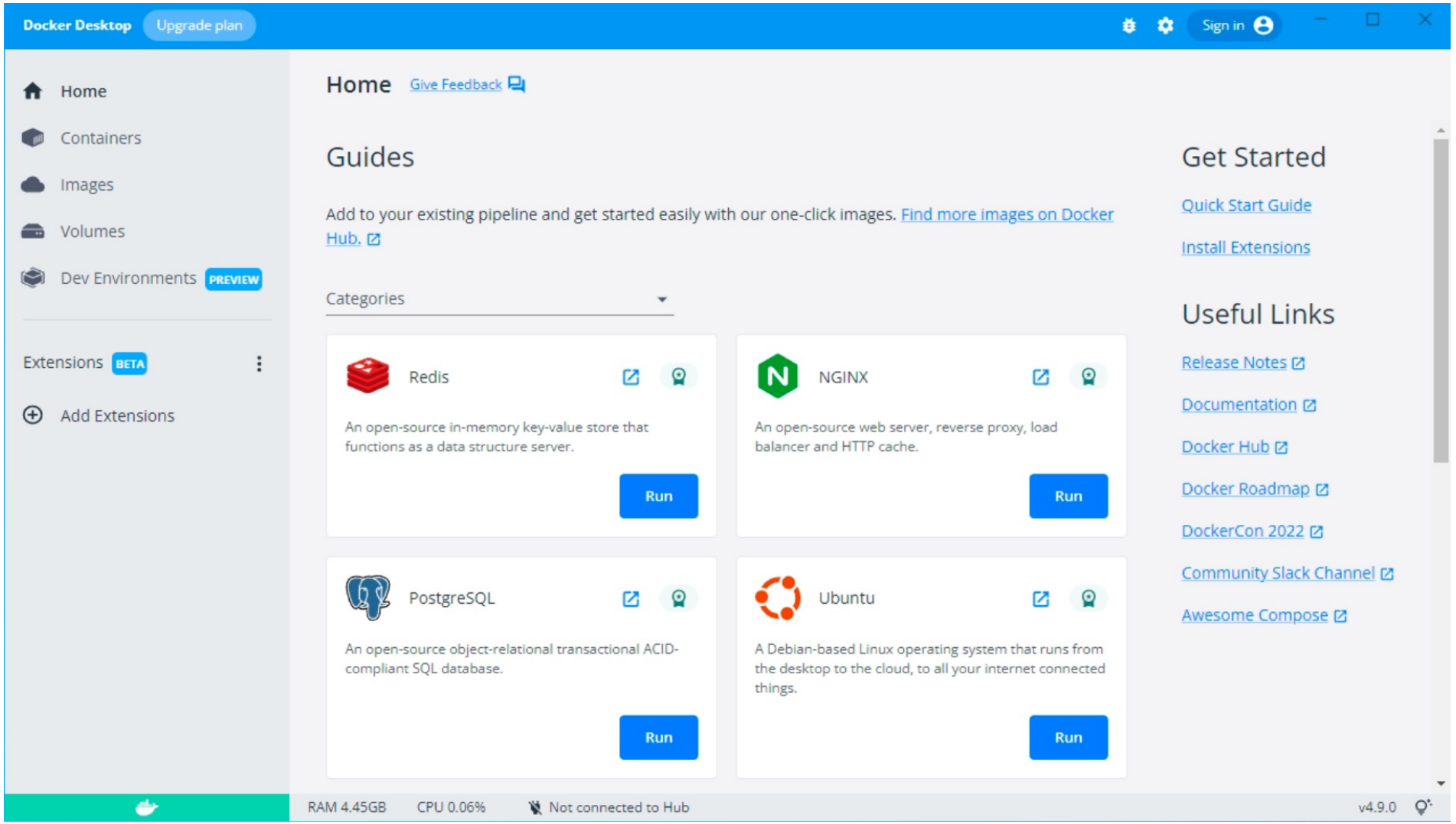
https://docs.docker.com/desktop/windows/install



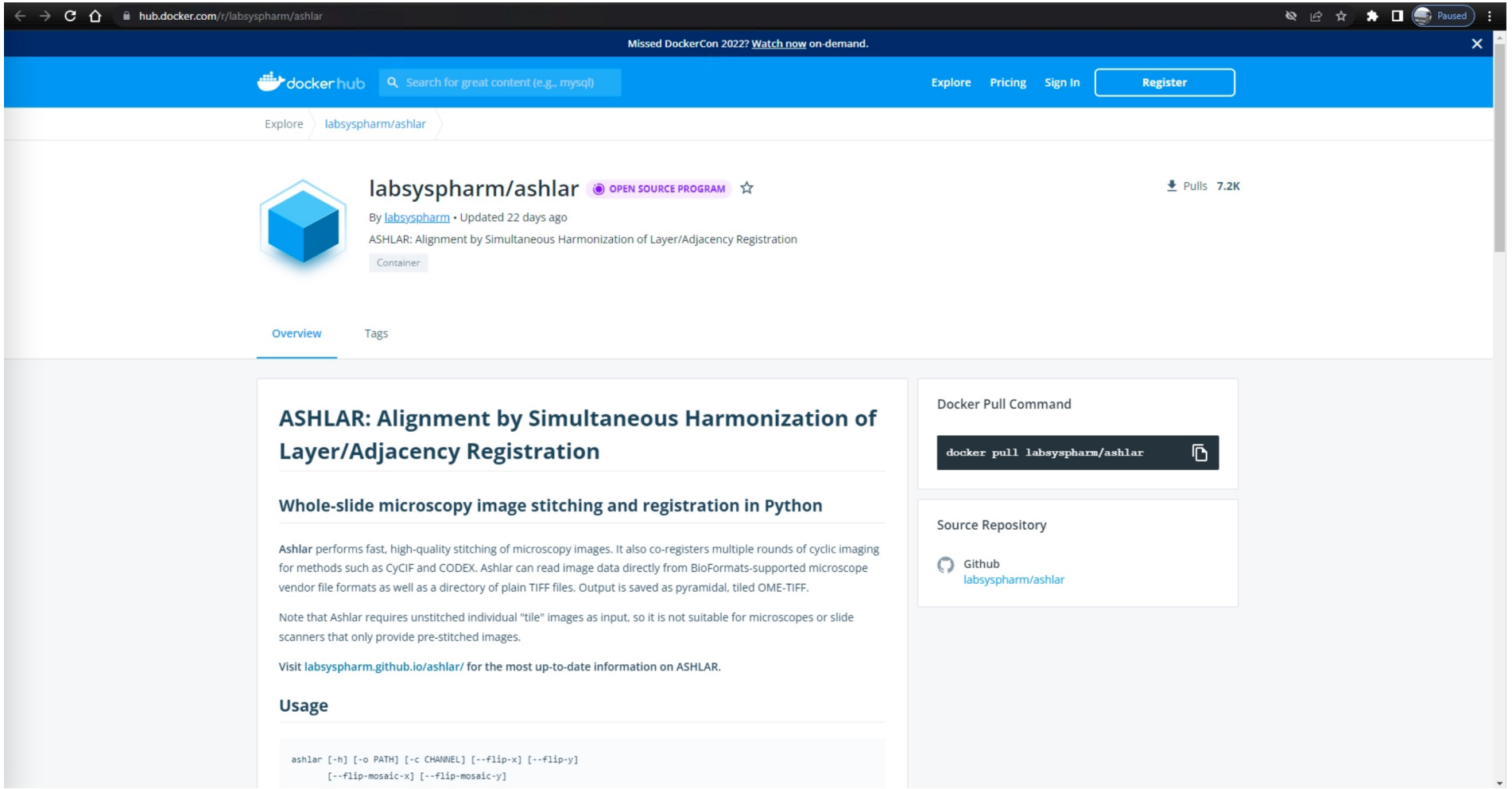
2. Install Linux kernel update package
https://docs.microsoft.com/th-th/windows/wsl/install-manual#step4---download-the-linux-kernel-update-package



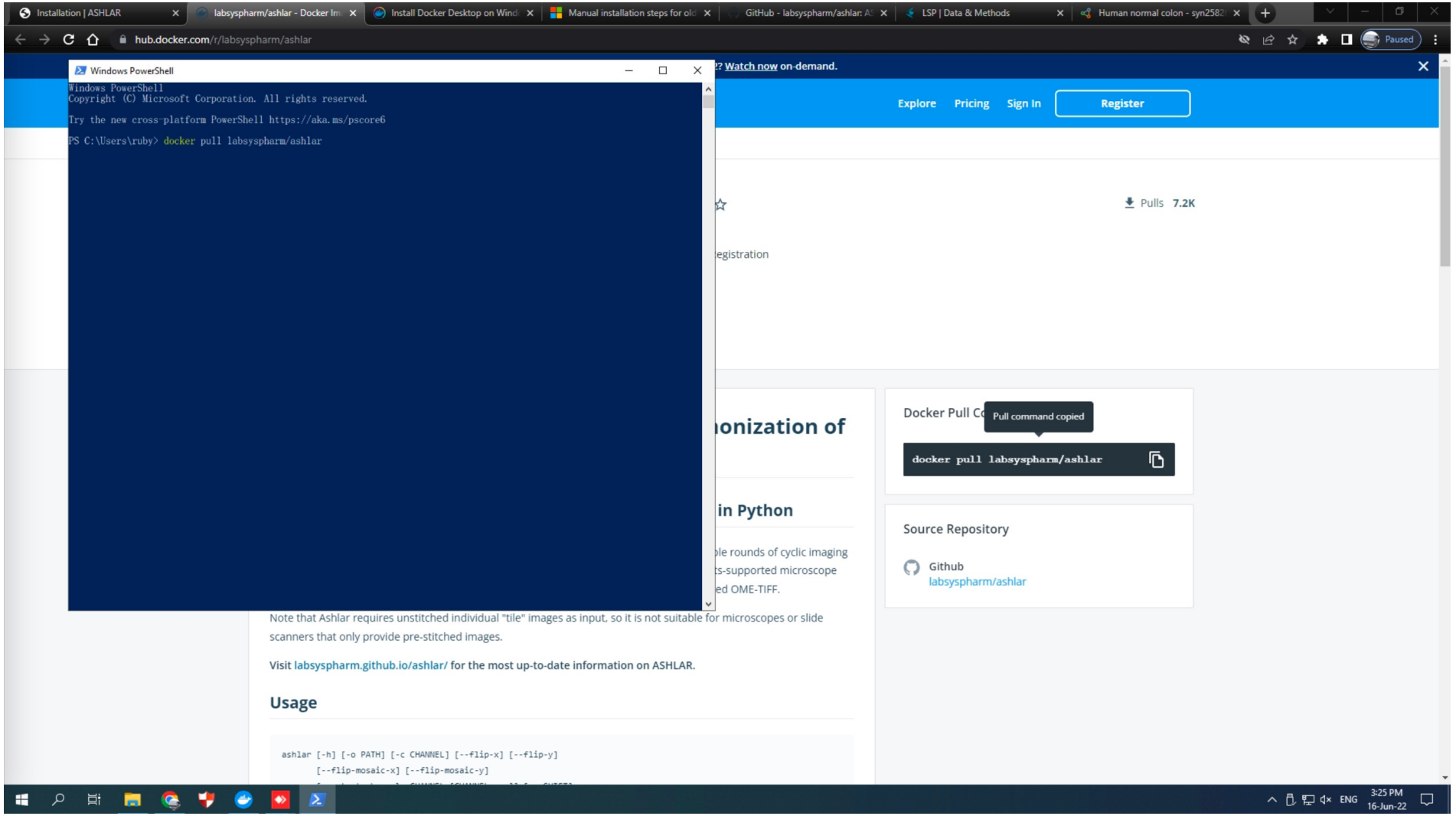
3. Open Docker Desktop



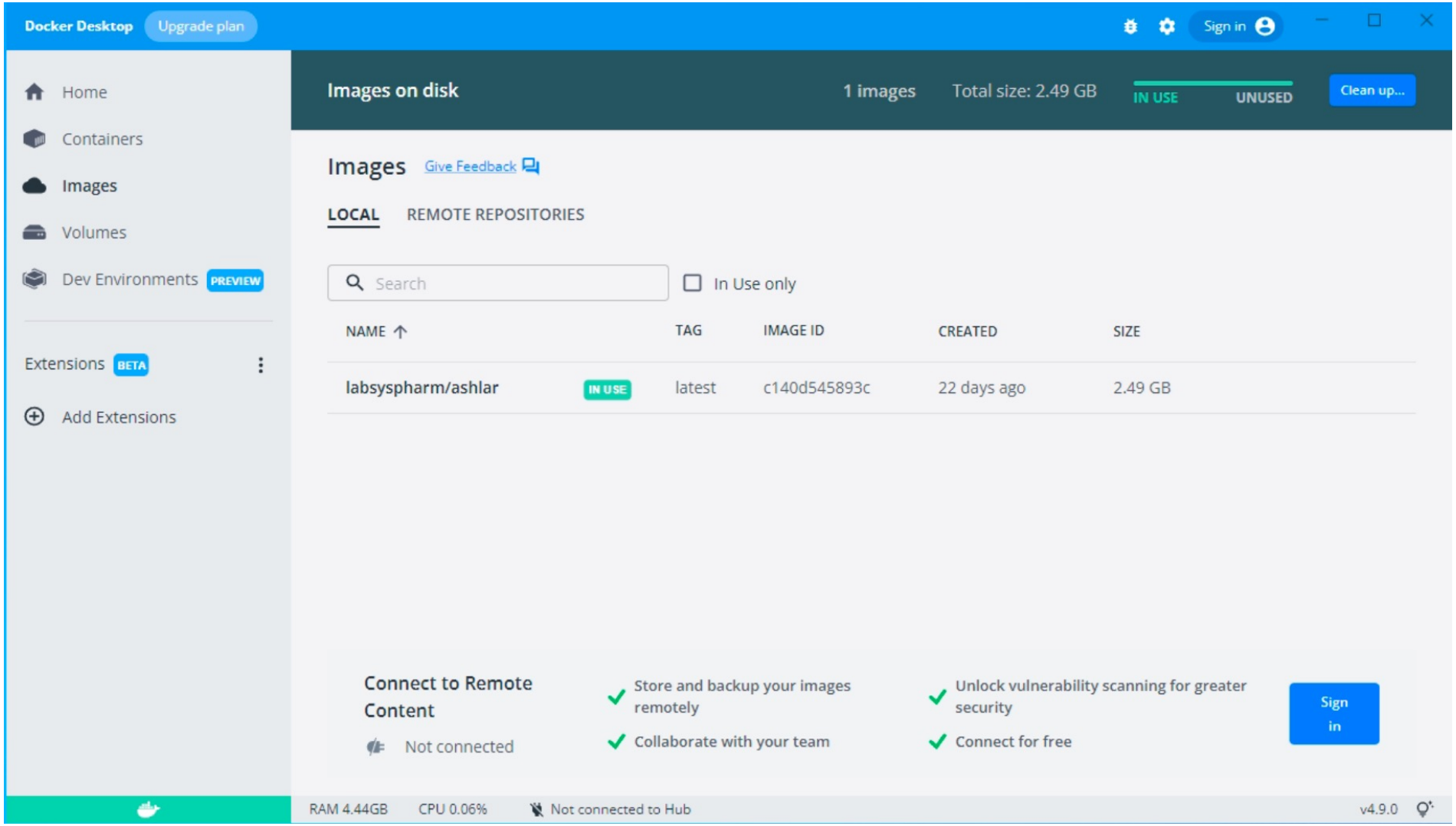
# 4. Download ASHLAR Docker Image
# https://hub.docker.com/r/labsyspharm/ashlar



5. Open ‘Windows PowerShell’ and run the following command to pull the image
> docker pull labsyspharm/ashlar



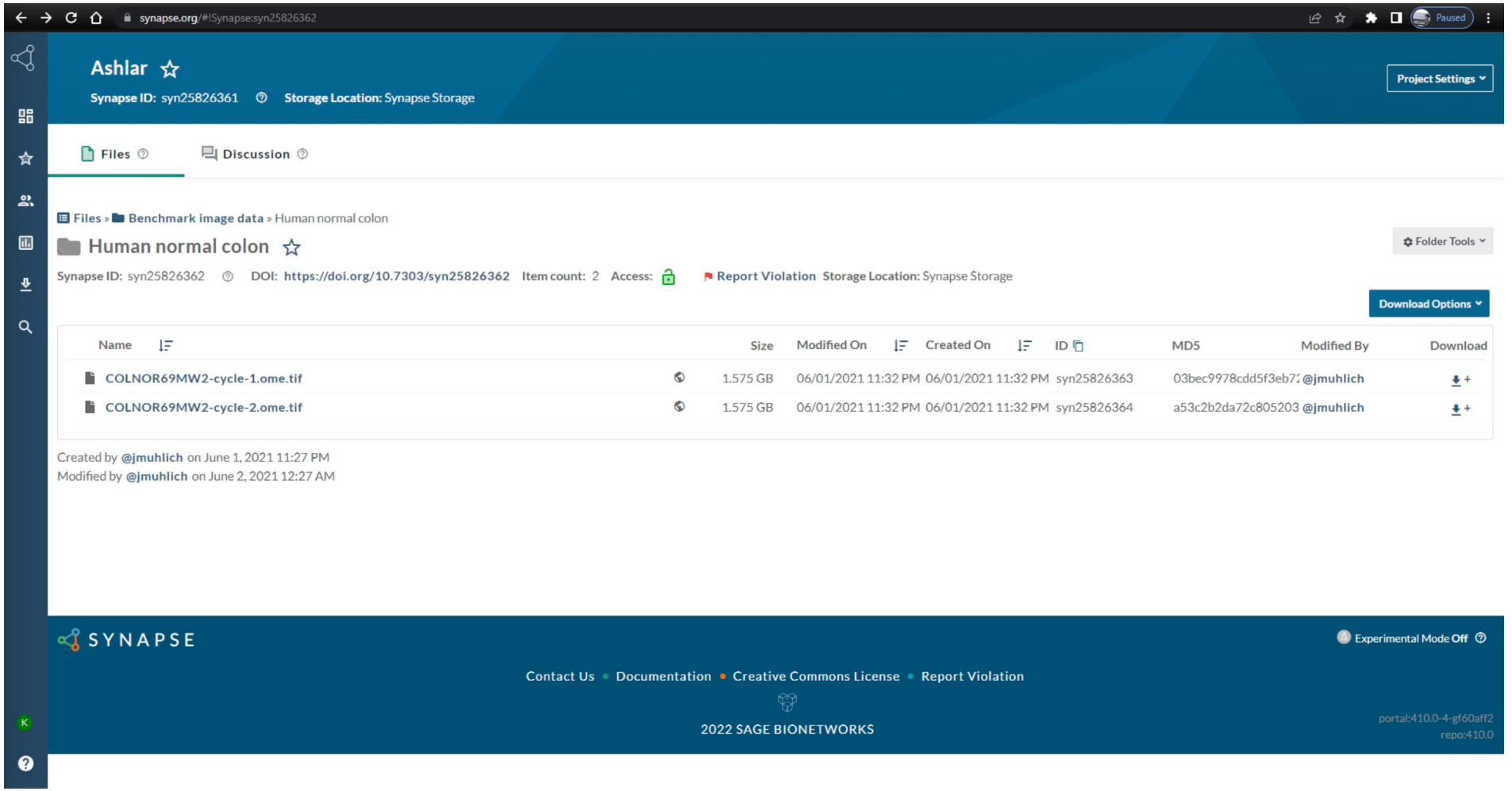
6. The ‘ASHLAR Image’ will show on the Docker Desktop



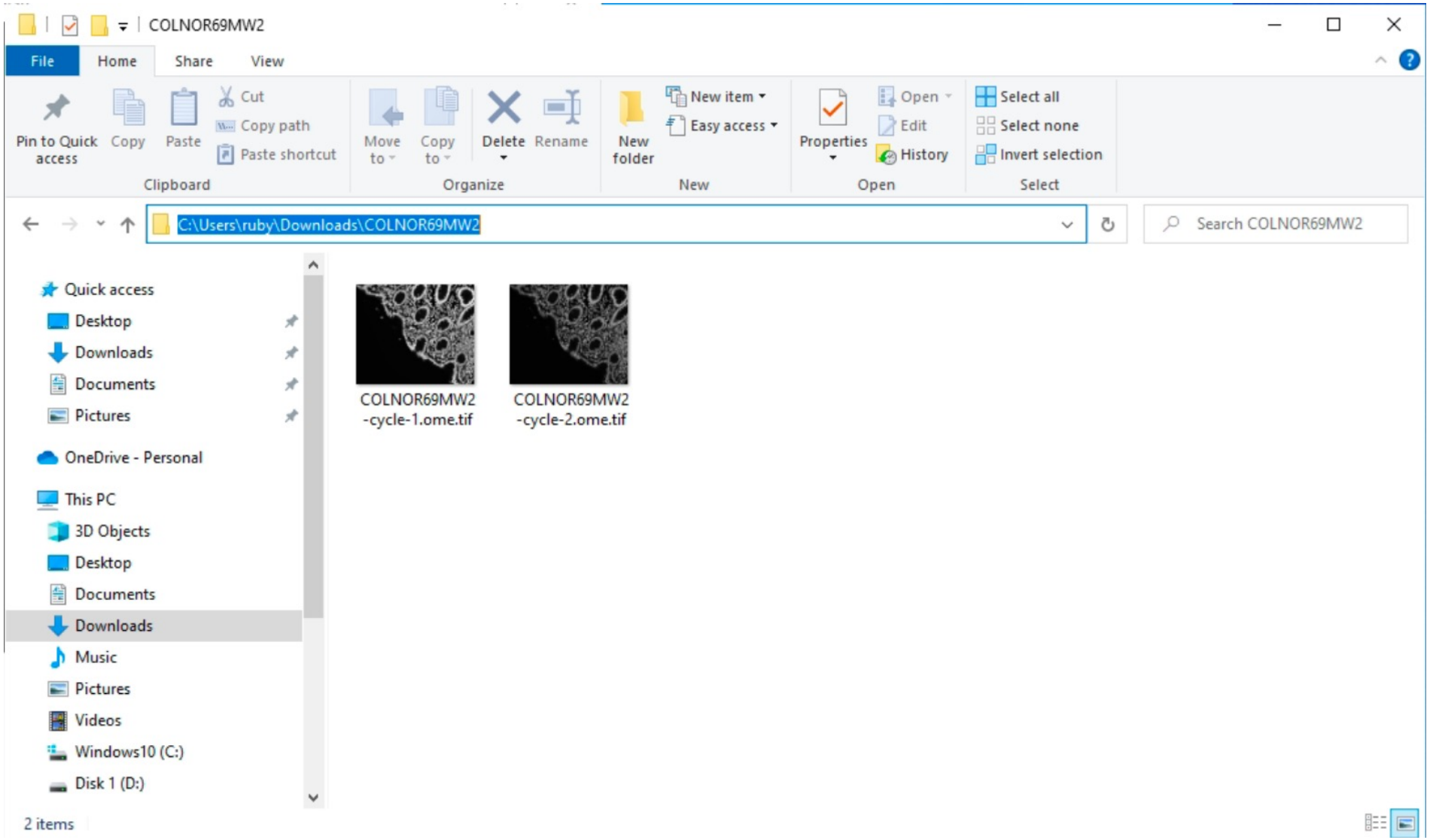
# Quick DEMO using ASHLAR

# 7. Download Example Images Files

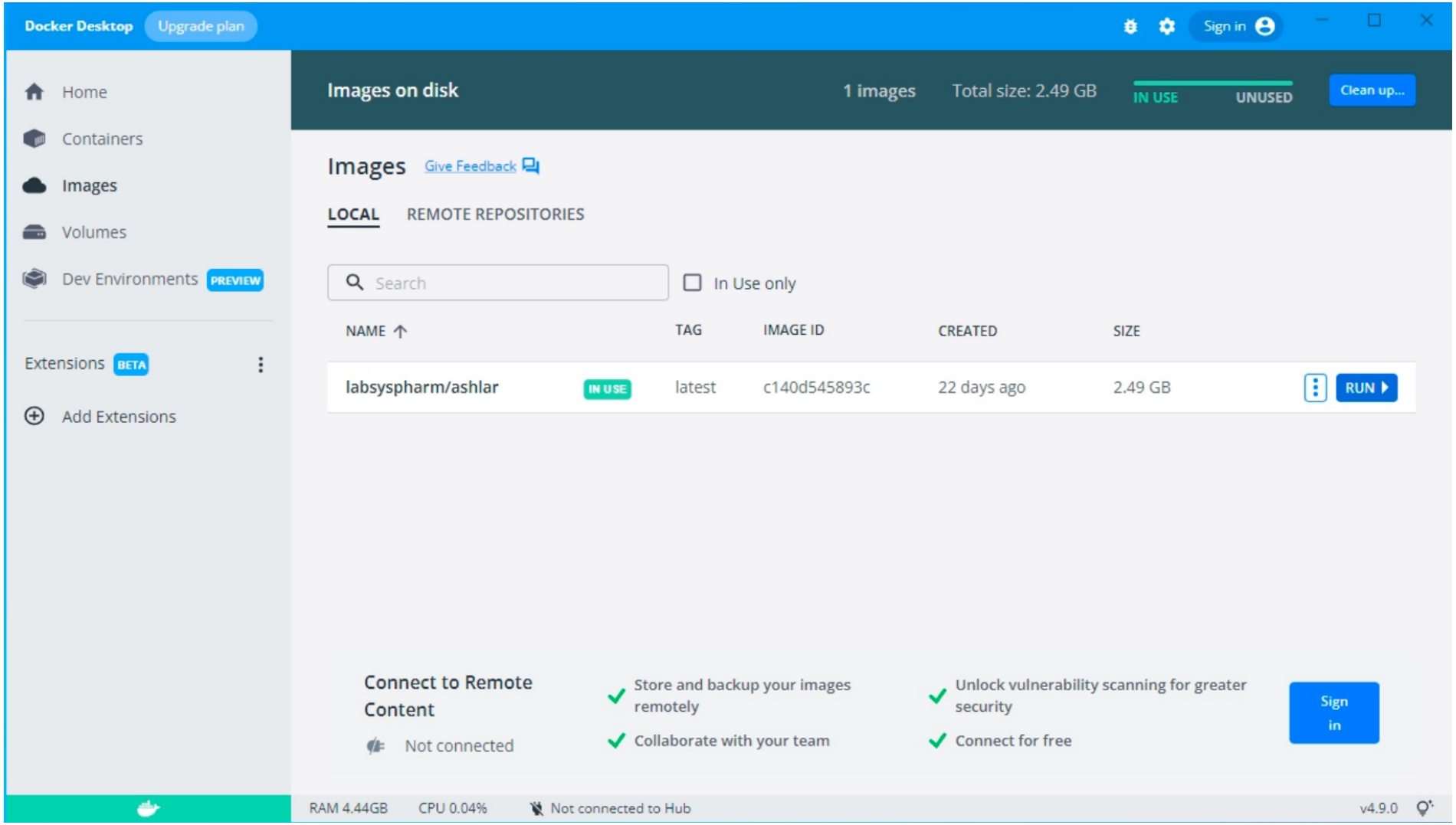
https://synapse.org/#!Synapse:syn25826362



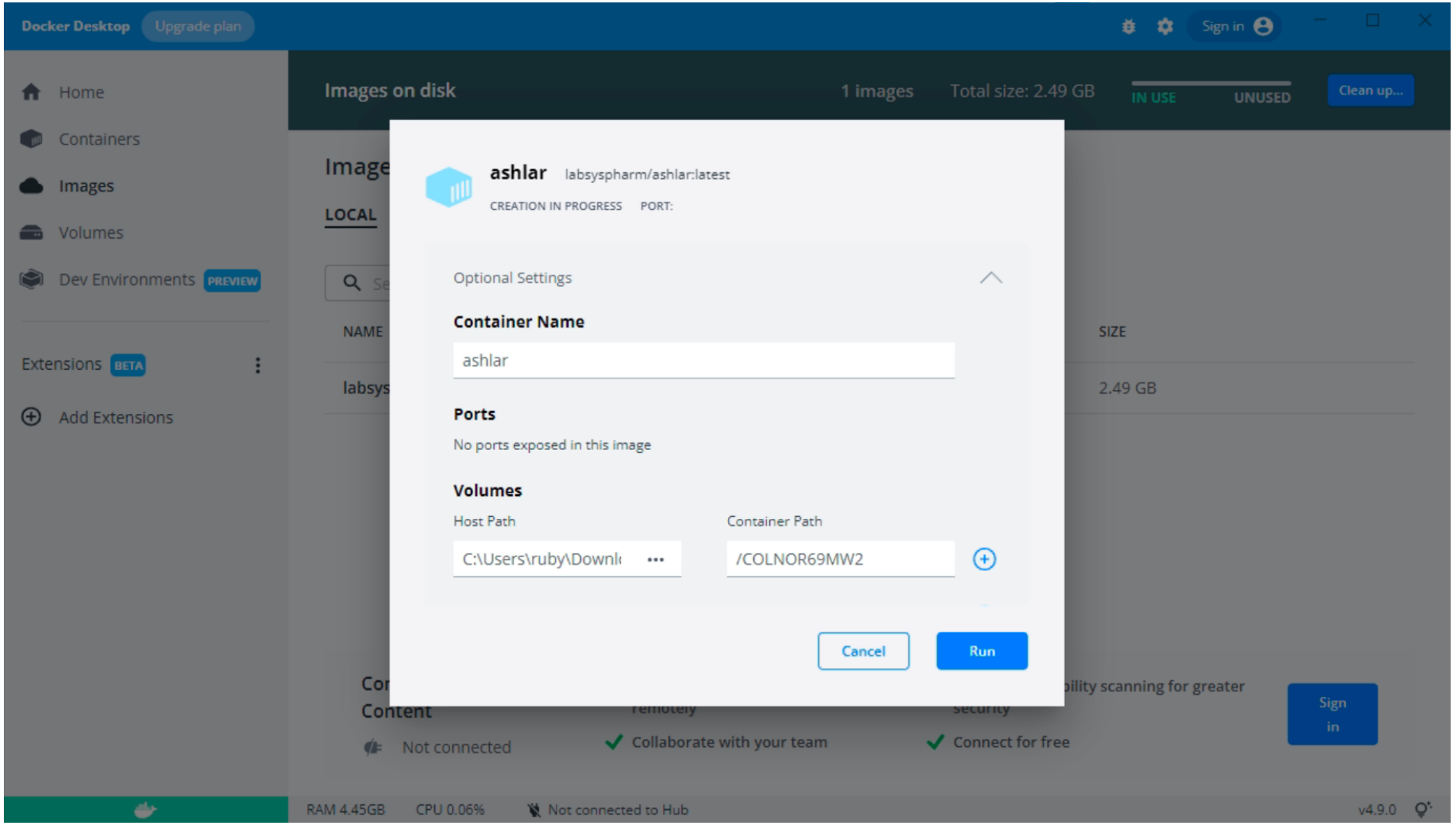
8. Get the directory of your working folder that contains your images
**C:\User\ruby\Downloads\COLNOR69MW2**



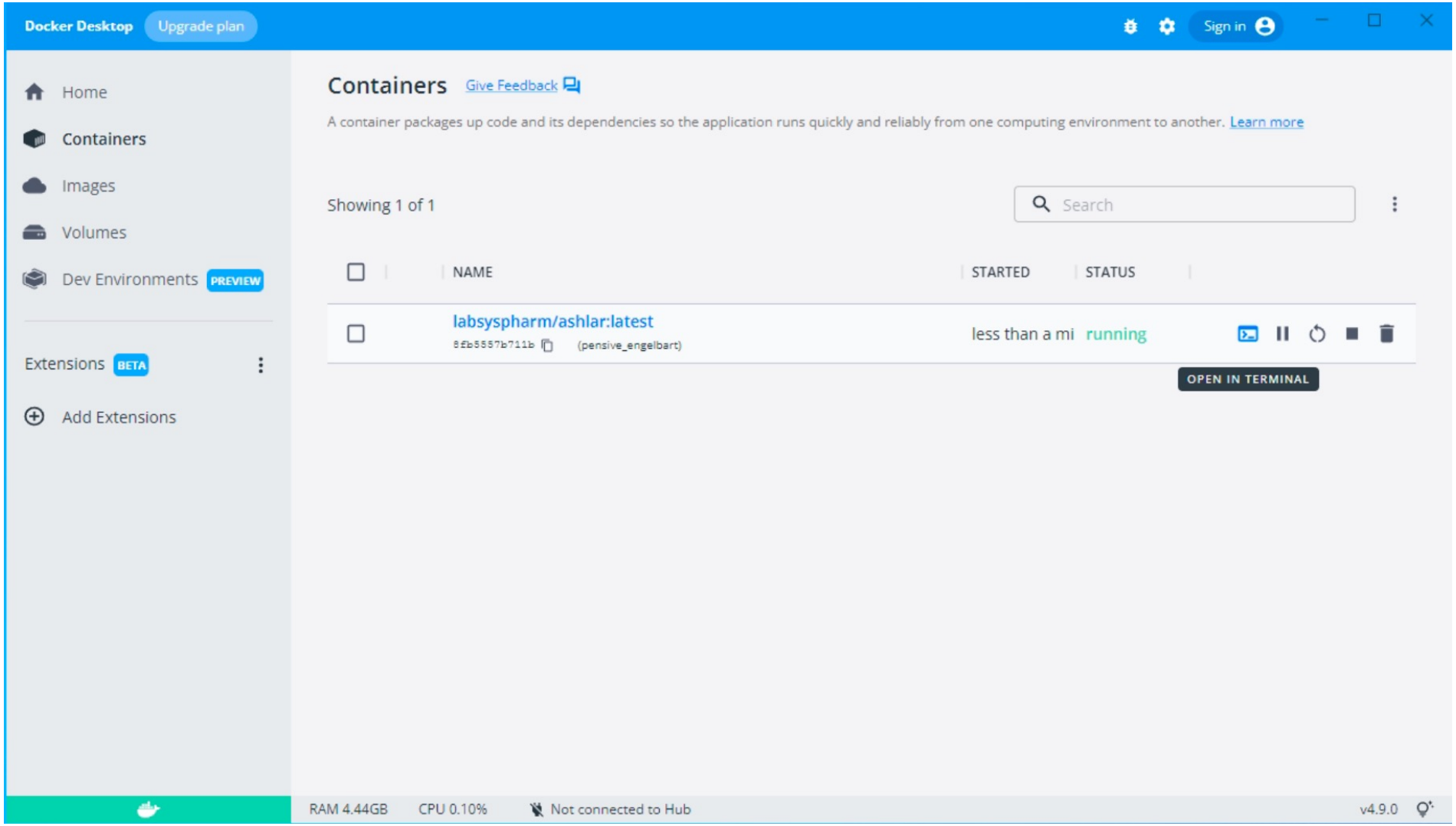
# 9. Run ASHLAR Docker Image and customize setting



10. In Optional Settings, define as Follows
    - Container Name: **ashlar**
    - Host Path: **<Image Directory>** e.g., C:\User\ruby\Downloads\COLNOR69MW2
    - Container Path: **/COLNOR69MW2**



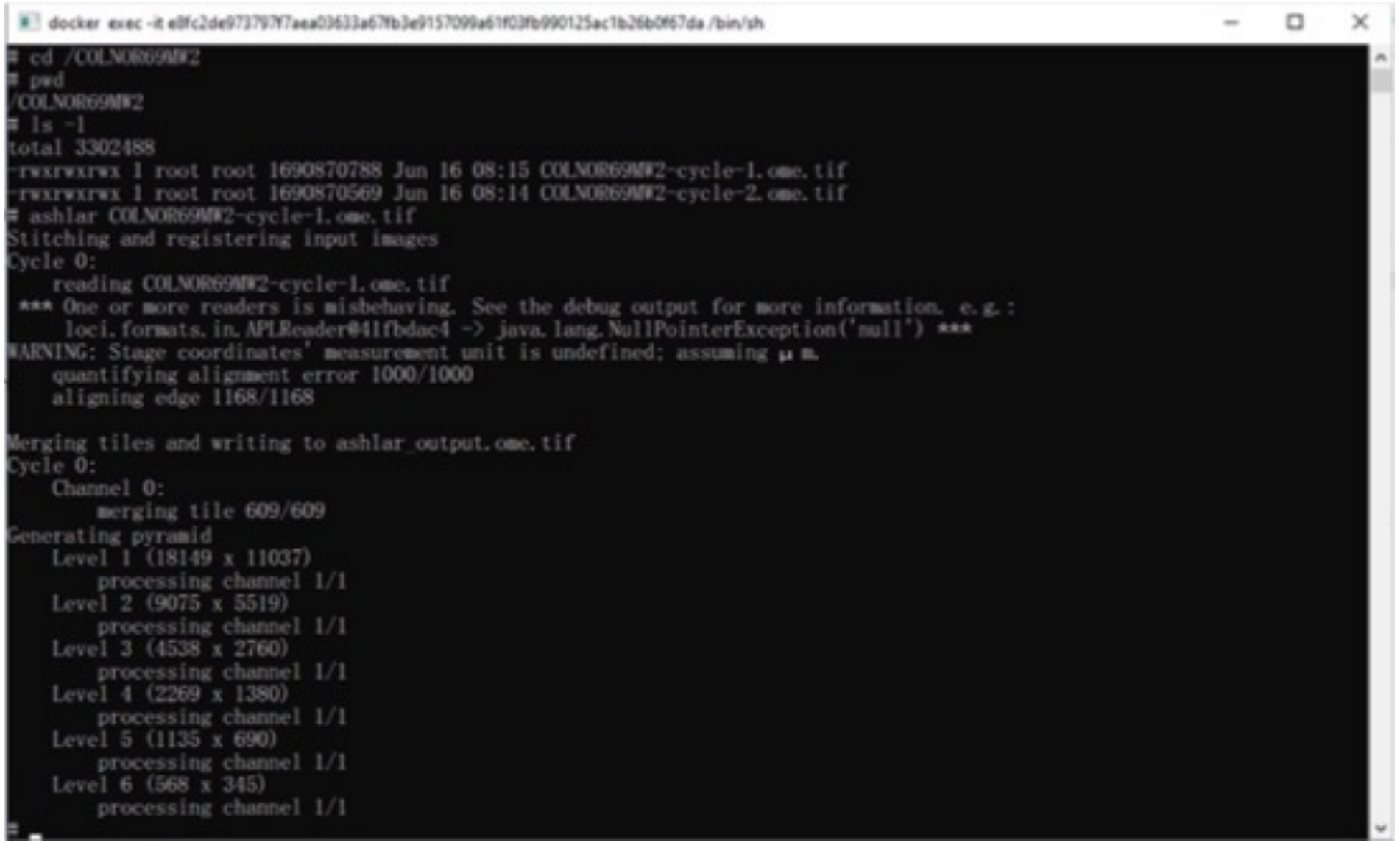
11. From Containers Tab, Click ‘Open In Terminal’ to run the ASHLAR pipeline



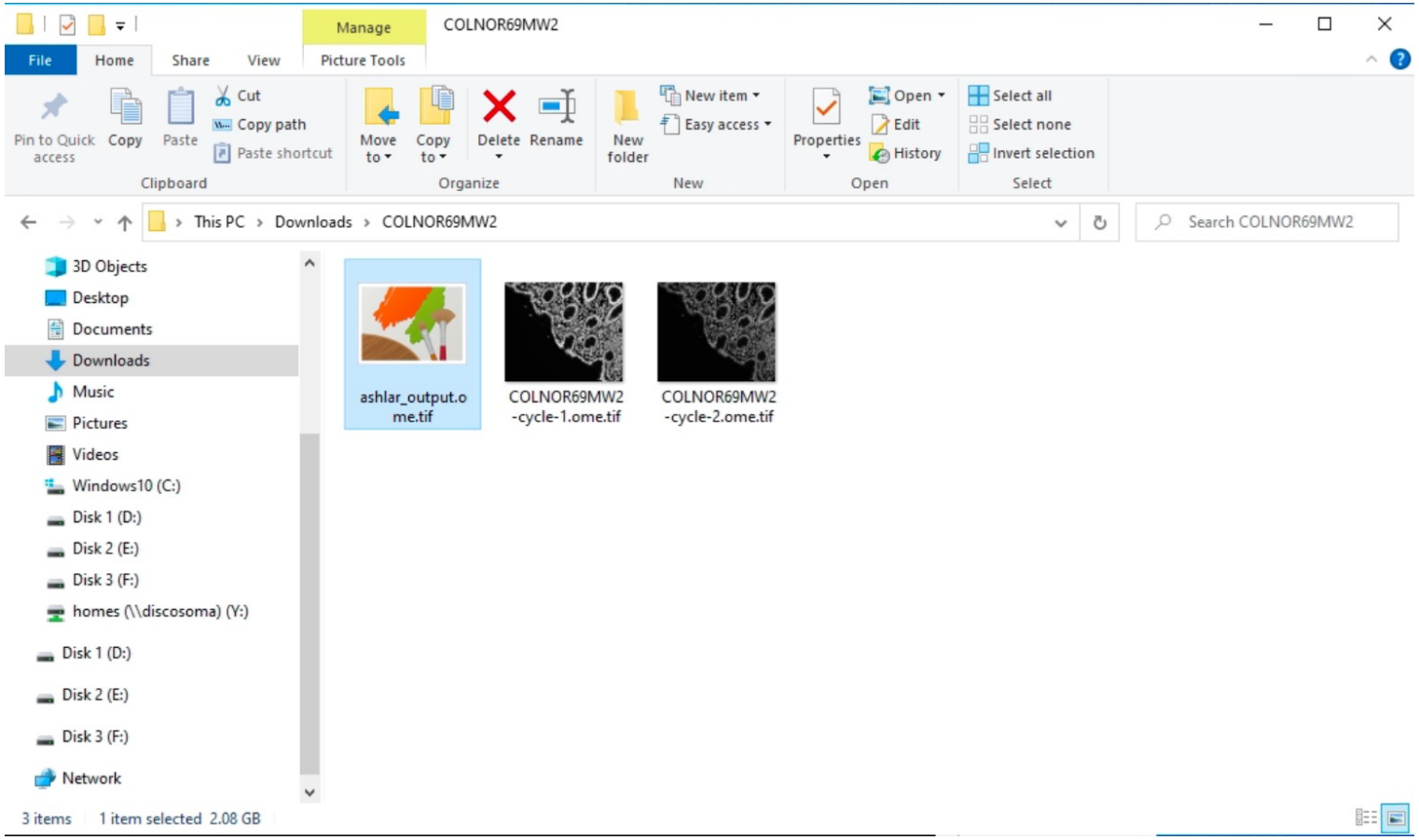
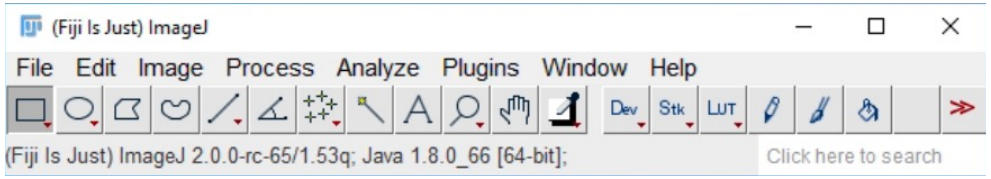
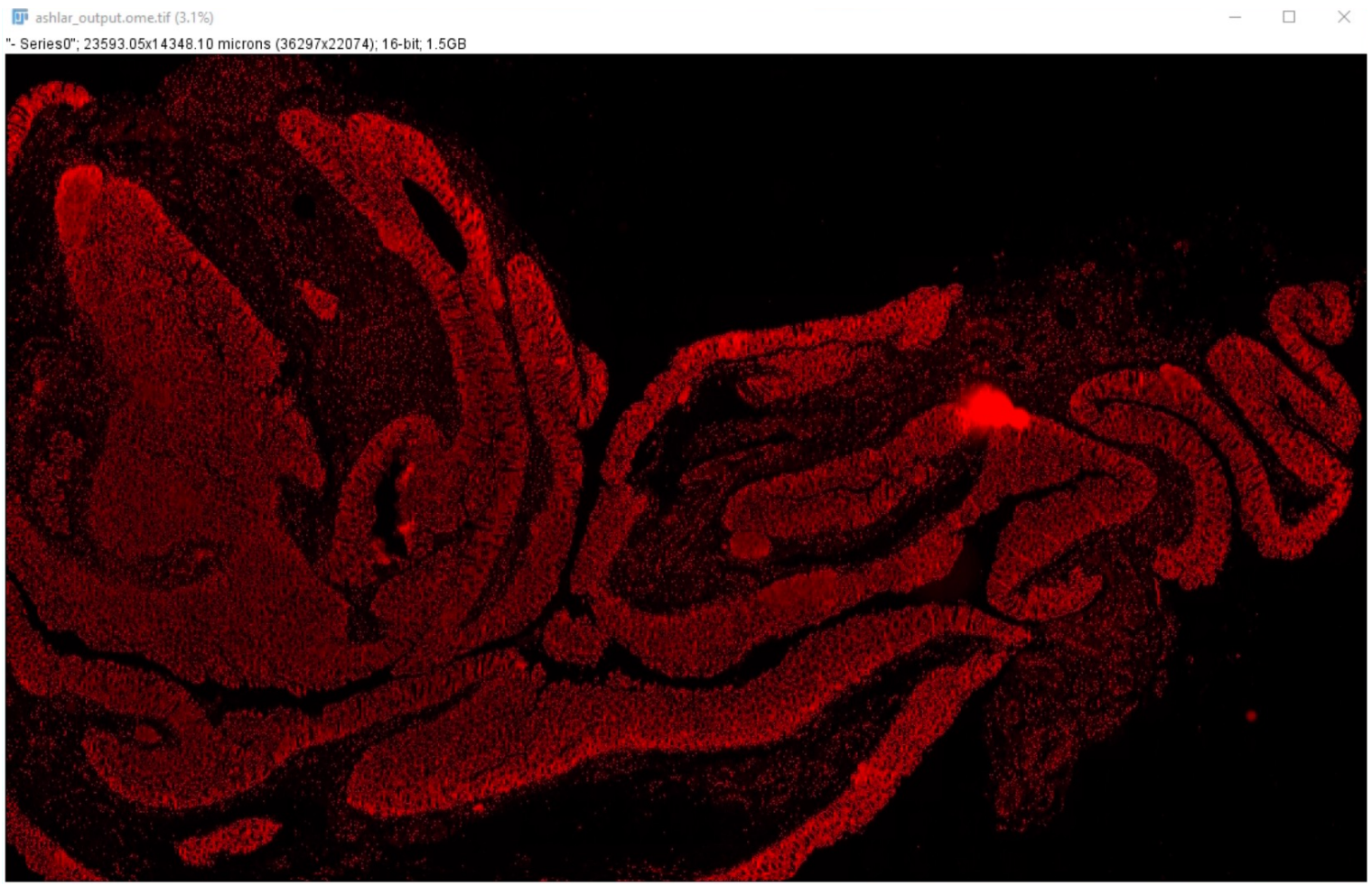
12. Run the ASHLAR pipeline as follows

**# cd /COLNOR69MW2**

**# ashlar COLNOR69MW2-cycle-1.ome.tif**



13. After completed, the ASHLAR output file will be stored in your working folder e.g., **ashlar_output.ome.tif**



15. Open the ASHLAR output image (recommend using Fiji – ImageJ program)