



Faculty IT & Research Support Team

The Faculty of Science and Environments dedicated IT Research Support Team.

FIRST work as an independent specialist engineers supporting and providing IT solutions needed for the delivery of teaching and research in FSE.

<https://livenorthumbriaac.sharepoint.com/sites/FIRST>

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Building images with Podman Desktop

A container image is a read-only template. It packages the filesystem, dependencies, and default startup command needed to run an application. It does not run by itself, it sits in storage until used to create a container. Example: ``docker.io/library/kf6003-2026:latest``

Workflow

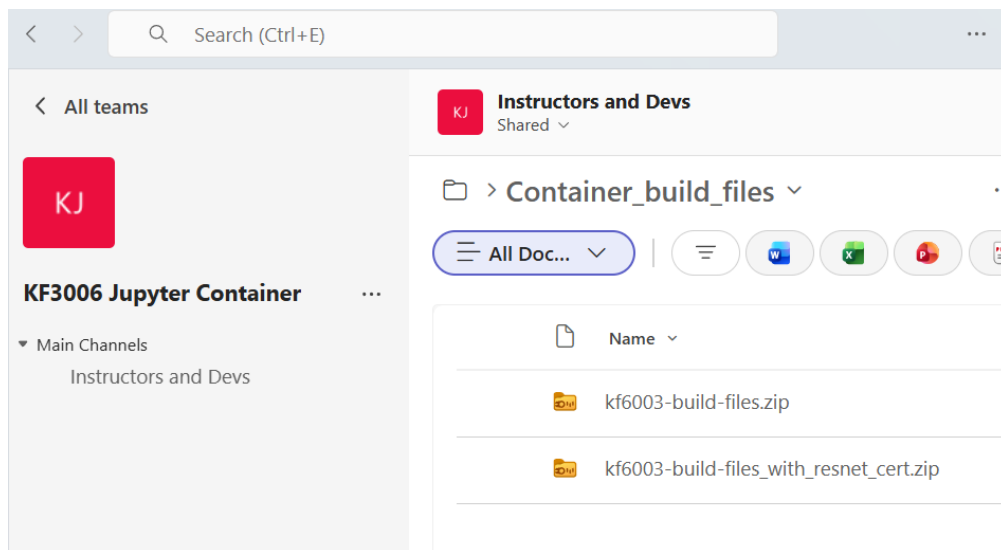
1. Download and extract the provided compressed container build files
2. Build the image in Podman using the provided Containerfile (included inside build files archive)

Instructions

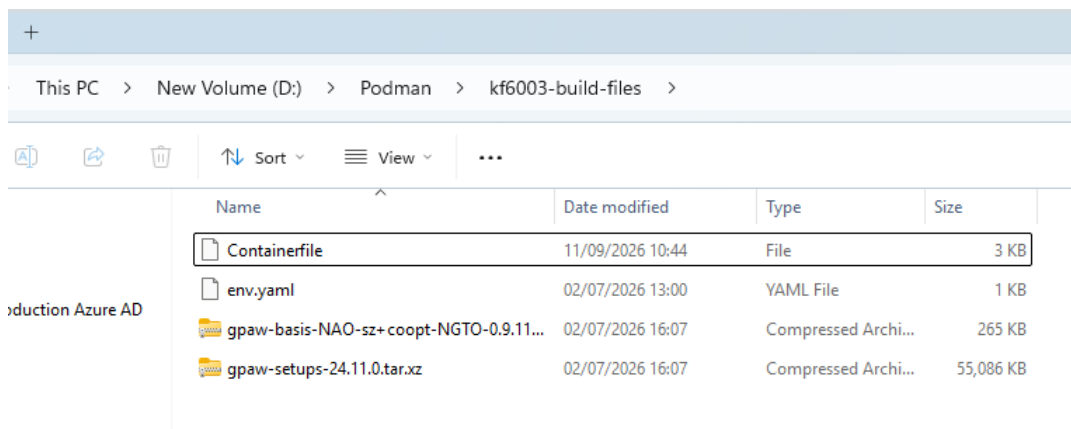
(A screenshot for each step can be found in the next section)

1. Download the container build files archive from the link provided. Currently this is stored in a Microsoft Teams / Sharepoint site.
 - a. Use kf6003-build-files.zip for any personal and on campus devices.
 - b. Use kf6003-build-files_with_resnet_cert.zip for any RESENT vnet devices.
2. Extract these files on to the local disk.
3. On Podman Desktop, switch to images, then click 'Build'
4. Provide the containerfile path. The build content directory will be automatically set to parent path of this file. Then click 'Build'
5. Observe the build process output on Podman.
6. Once this is completed click 'Done'
7. The container image now appear under the images list

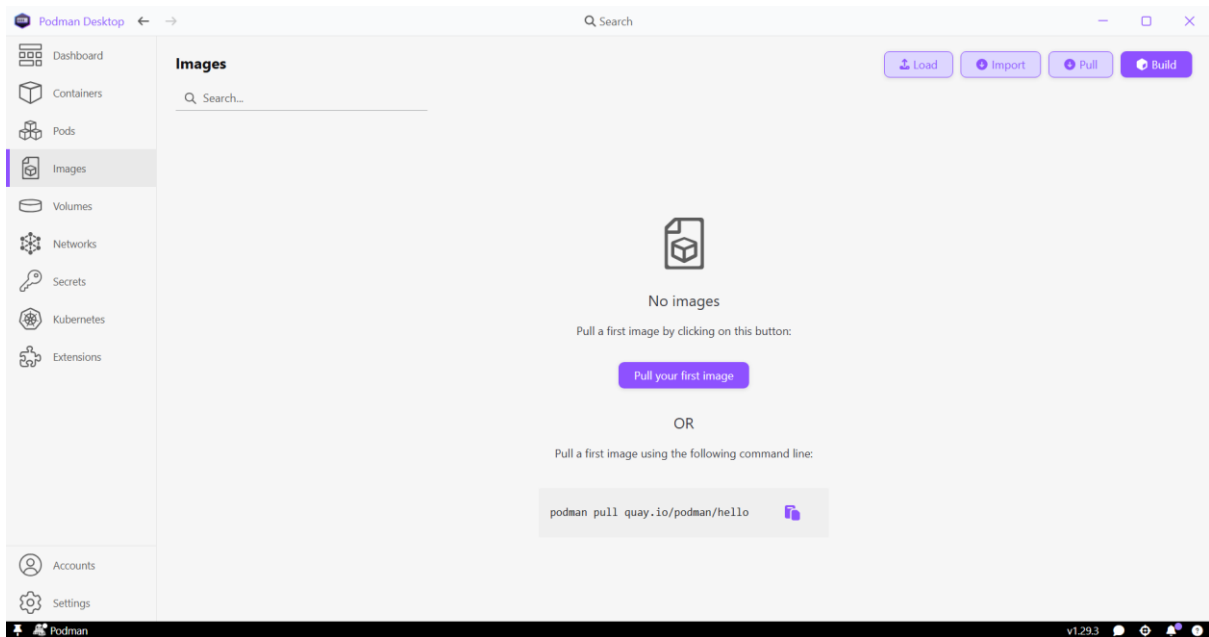
Screenshots



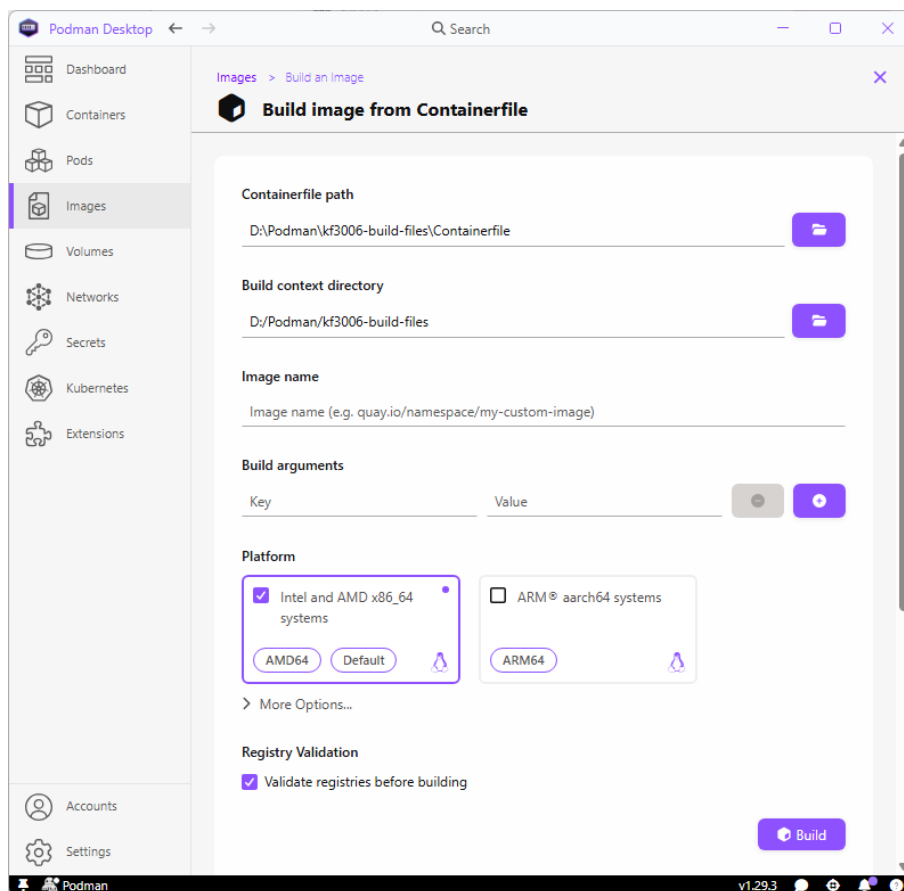
Step 1: Download the correct container build files archive for you



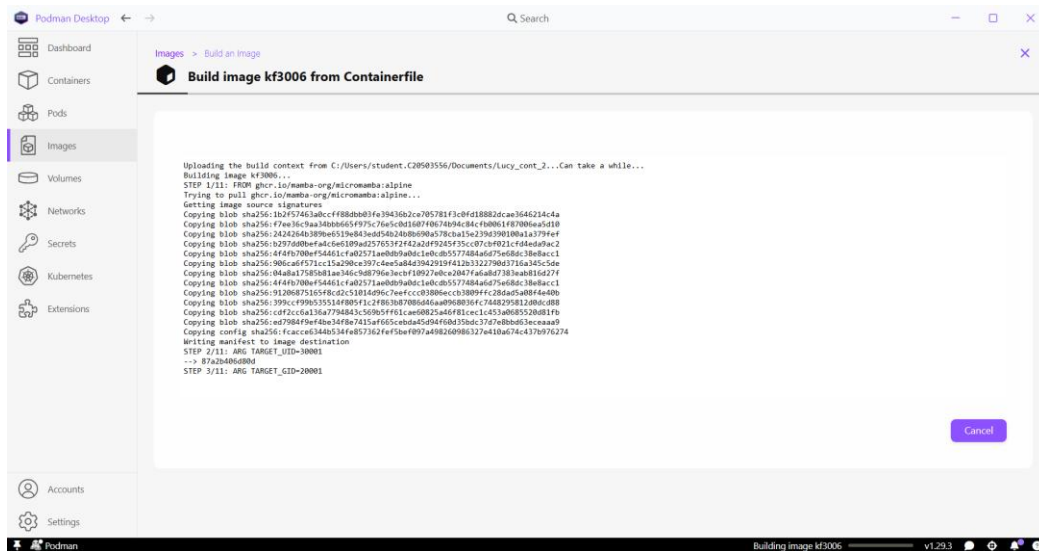
Step 2: Extract these files on to the local disk.



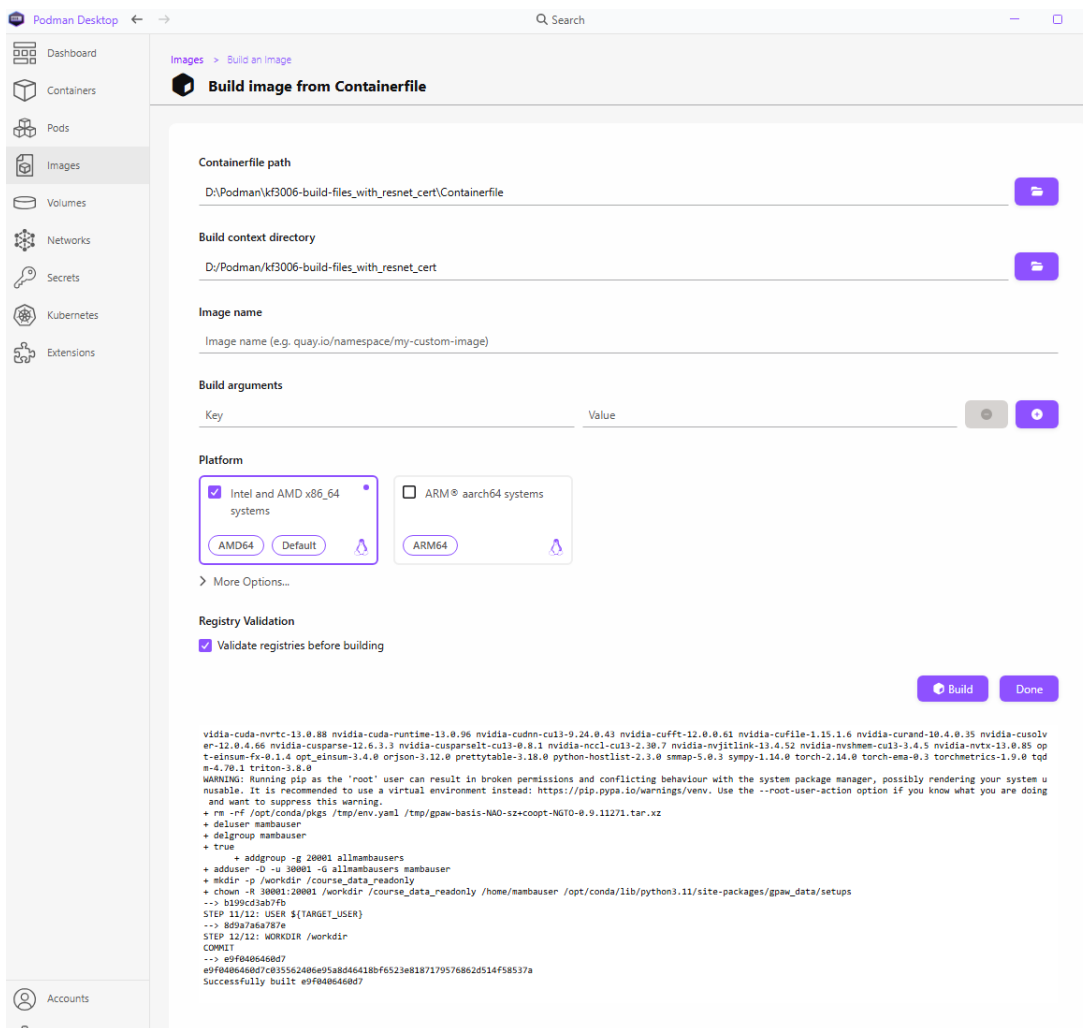
Step 3: On Podman Desktop, switch to images, then click 'Build'



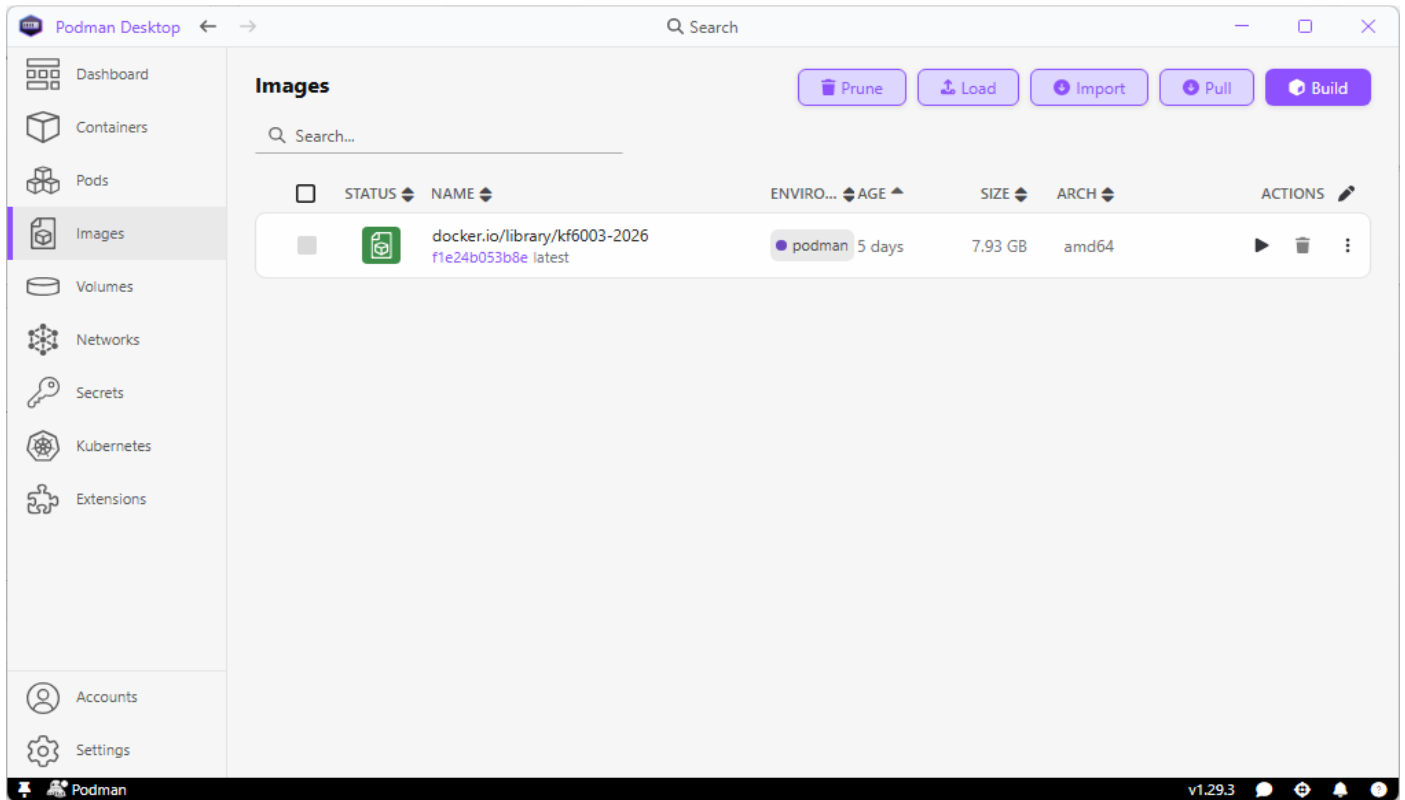
Step 4: Provide the containerfile path. The build content directory will be automatically set to parent path of this file. Then click 'Build'



Step 5: Observe the build process output on Podman.



Step 6: Once this is completed click 'Done'



Step 7: The container image now appear under the images list