

SOFTWARE

PORTABLE CONDA – A PAIN

2.09.2025

Quick comparison

Method	Cross-platform	Exact binaries	Size	Ease of use	Reproducibility
env export	✗ (OS-tied)	✗	tiny	✓	medium
conda-pack	✗ (OS-tied)	✓	large	✓	high
Docker/Podman	✓	✓	huge	medium	very high
conda-lock + mamba	✓ (lockfiles)	✗	tiny	medium	high

```
# v1
conda env export --from-history > environment.yml
conda env create -f environment.yml

# v2
conda install conda-pack
conda pack -n myenv -o myenv.tar.gz
# on target system
mkdir -p ~/envs/myenv && tar -xzf myenv.tar.gz -C ~/envs/myenv
./bin/conda-unpack

# v3
www.docker.com

# v4
micromamba env export / micromamba pack
```

