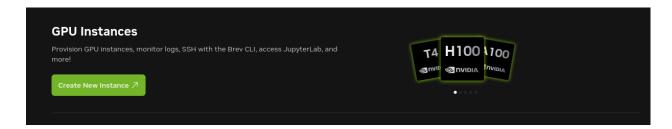
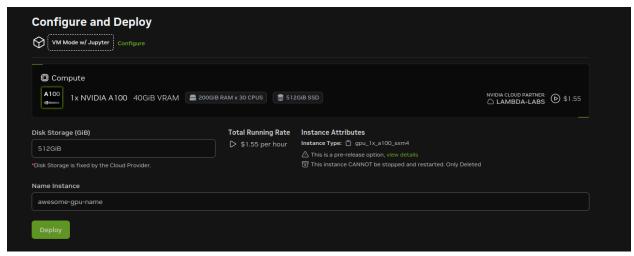
Environment creation for PhysicsNemo workshop

This document explains the process of creating a working Python environment for physicsnemo workshop on Brev.

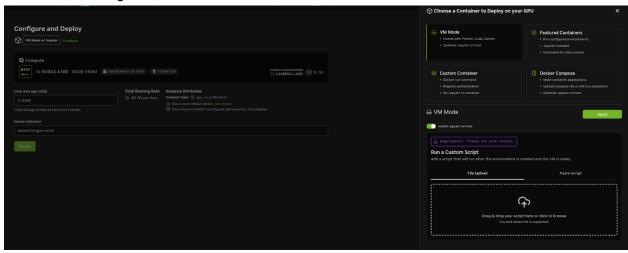
1. Create a Brev instance with the physicsnemo Docker image:



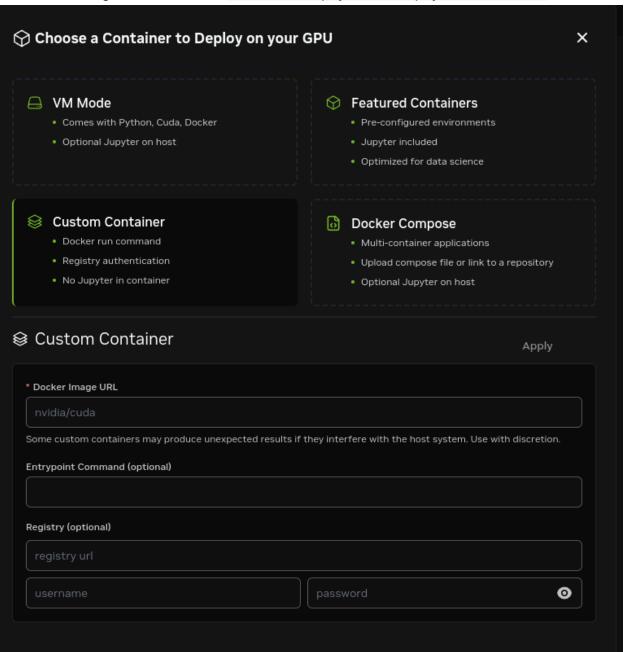
2. Go to the next screen:



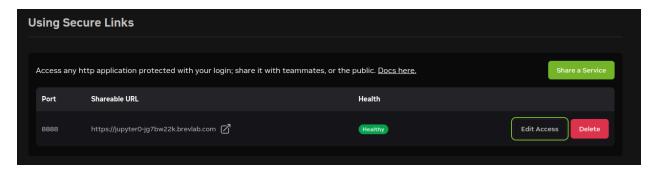
3. Click configure and choose Custom Container



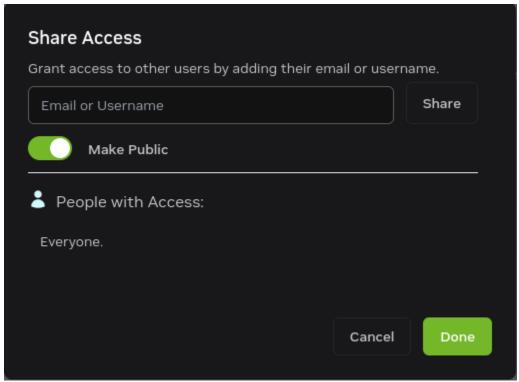
4. Use Docker Image URL as follows: nvcr.io/nvidia/physicsnemo/physicsnemo:25.03



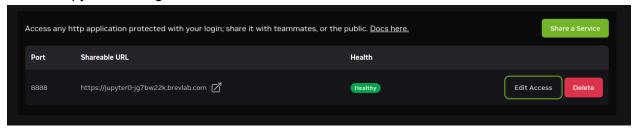
- 5. Click 'Apply' and then 'Deploy'
- 6. Go get a cup of coffee as it will take a few minutes to create the instance and deploy.
- 7. Click 'Edit Access'



8. Make access public:



9. Access Jupyterlab using the link above:



- 10. Open a Terminal in Jupyterlab and install uv as follows: **curl -LsSf** https://astral.sh/uv/install.sh | sh
- 11. Follow post installation instructions on the screen.
- 12. Create a new environment using virtualenv as follows: python -m venv physicsnemo

- 13. Run **source physicsnemo/bin/activate** to activate the environment
- 14. Install nvidia-physicsnemo in the new environment after activating it using the following pip install nvidia-physicsnemo
- 15. Install dgl and physicsnemo sym pip install dgl -f https://data.dgl.ai/wheels/torch-2.4/cu124/repo.html --no-deps pip install Cython pip install nvidia-physicsnemo.sym --no-build-isolation
- 16. Install 'ipykernel' as follows: pip install ipykernel
- 17. Clone lab inside workspace:
 - cd /workspace
 - git clone https://github.com/hasethinvd/physicsnemo_workshop.git
- 18. Register python environment as ipykernel **python -m ipykernel install --user** --name=physicsnemo --display-name "physicsnemo_test"
- 19. For pyvista viz on brev apt-get install -y libgl1-mesa-dev xvfb libosmesa6