

Nitro competition environment setup script

What does this script do?

This script installs and configures WSL, podman, VSCode, PyCharm. In the case of a full online install(default) it will also install winget.

- *Stage 1* installs WSL then podman and the other software before restarting and starting stage 2
- *Stage 2* configures podman by running `podman machine init` as well as testing it. In the case of an install with a local image this is the point where the image will get loaded on the machine. At the end of Stage 2 the machine will restart.

Requirements

- Windows 64bit.
- Windows 10 Build 19043 or greater, or Windows 11.
- QuadCore Processor with VT-x or AMD-V
 - Any Intel Kaby Lake (7nd gen) or newer
 - Any AMD Ryzen or newer
- 8GB of RAM
- Virtualisation enabled in the bios/uefi.
- 80GB of usable space on the C:/ drive

Check the status of Virtualisation.

Why podman?

This question can be further divided into 2 other question.

Why are you using containers?

We are using containers to be able to provide a consistent environment for all competitors as well as an easily updatable one that is easy to deploy.

Why are you using podman over Docker?

Podman is a drop in replacement for Docker in most instances, but here, in Windows, docker requires interaction with the GUI during setup, this being unattainable for our script.

Docker can be used if it is already installed on the system.

How do I run this script?

Simply double click the Windows executable(.exe) and approve the UAC prompt, then press enter on the cmd window to select the default configuration. Unfor-

Unfortunately due to the way WSL gets installed it will prompt you with 2 additional UAC prompts after the selection of the configuration.

What is the smallest valid install configuration?

Podman+WSL

How can I manually configure my machine?

- Install WSL(`wsl install`) + Podman + the editor of your choice.
- Restart the computer.
- Run in cmd or powershell `podman machine init`
- Use the start, stop, and clear scripts provided in this repo.

Note! On the first run of the start script, it will download the competition image. This will take a while!