1. **Download Windows Terminal**

* First, you need to download Windows Terminal manually using the link below. If you already install Windows Terminal, you can skip this step.
* <https://apps.microsoft.com/detail/9N0DX20HK701?rtc=1&activetab=pivot%3Aoverviewtab&hl=en-ur&gl=US>

1. **Install, update WSL2 and download Linux distribution**

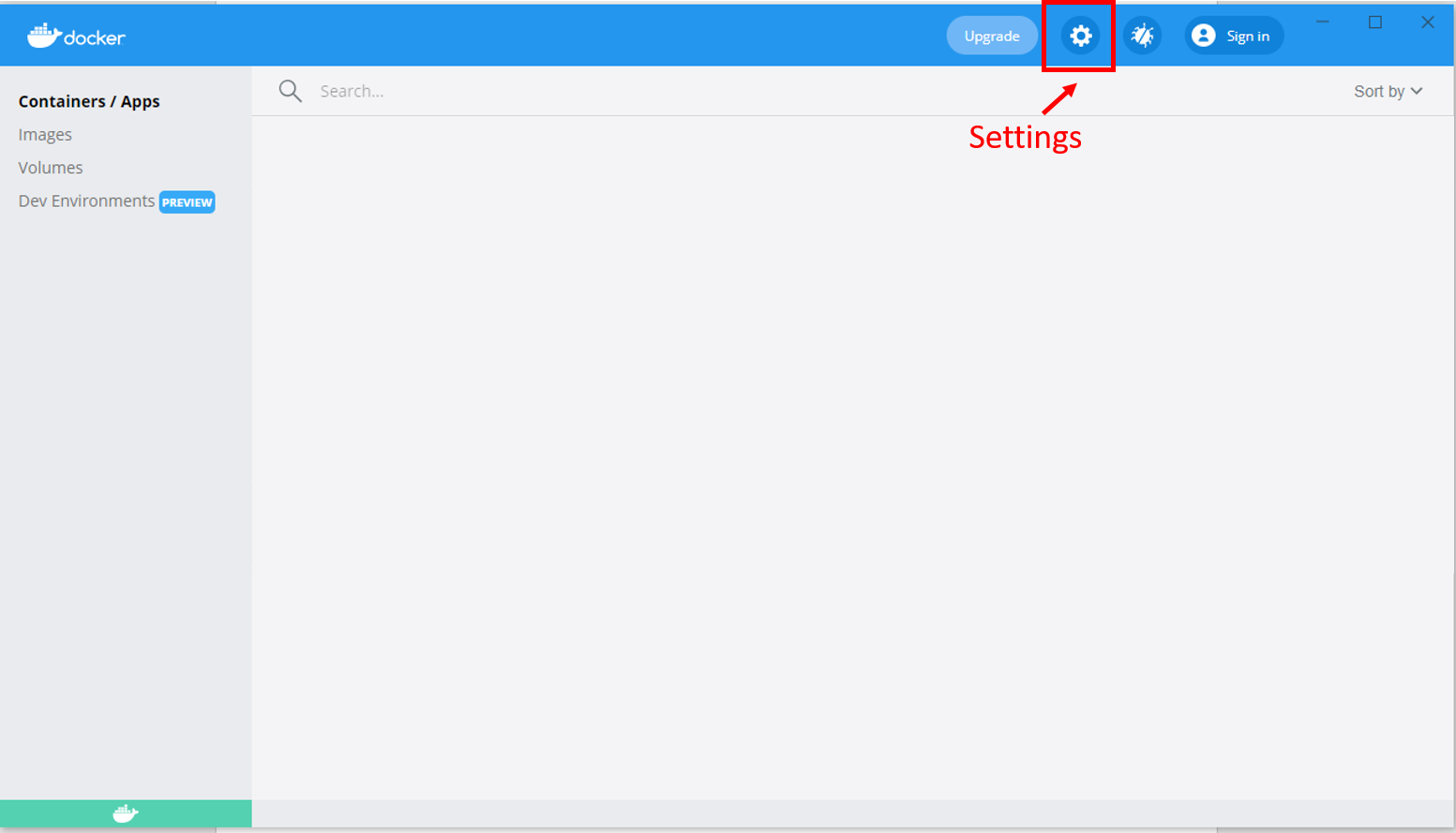
* Follw the instruction below to install and update the WSL2. It enables you to run a Linux on Windows. After setting WSL2, install you Linux distribution.
* <https://learn.microsoft.com/en-us/windows/wsl/install-manual>

1. **Download Docker Desktop**

* You can download docker desktop in <https://www.docker.com/products/docker-desktop/>
* Click the button [Download for Windows] and install
* During the installation, check all configuration options



1. **Configure Docker WSL 2 Backend**



* Run Docker Desktop and click [Settings] – [General]
* Choose “Use the WSL 2 based engine” option
* Click [Settings] – [Resources] – [WSL INTEGRATION]

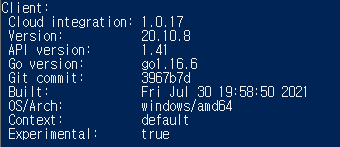
1. **Test the Docker Connection**

* Open a terminal (Windows Powershell)
* Run the commands below to verify Docker is configure correctly

wsl –l –v

docker version

* If you get the output resembles the following example, Docker has been successfully installed



1. **Build Dockerfile**

* Download the Dockerfile
* Open the Windows Powershell
* Run the commands below to move to your directory where you download Dockerfile

cd [directory]

For example:

cd C:/git

* Run the commands below to build Dockerfile

docker build --build-arg GIT\_ACCESS\_TOKEN=[insert-access-token-here] -t [image\_name]:[image\_tag] .

For example:

docker build --build-arg GIT\_ACCESS\_TOKEN=ghd123123 -t rpack-atlas:v2.12.0 .

You can get your GIT\_ACCESS\_TOKEN in github.com. Follow instructions below.

<https://docs.github.com/en/authentication/keeping-your-account-and-data-secure/managing-your-personal-access-tokens>

* Using the commands below, you can see the docker image the you build using Dockerfile

docker images

1. **Run Docker container**

* Use the following command to run docker container

docker run --name [container\_name] -e USER=user -e PASSWORD=password -p 8787:8787 [image\_name]:[image\_tag]

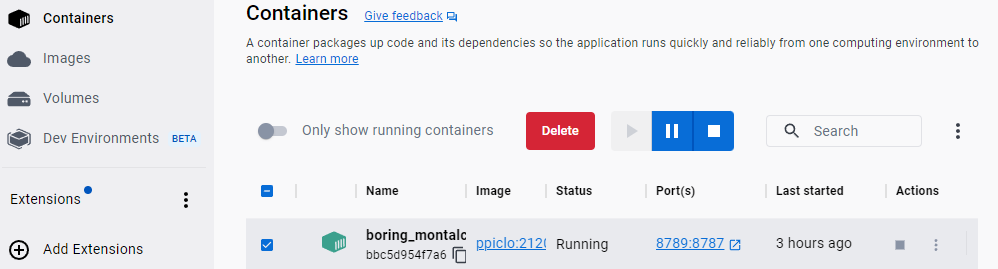
For example:

docker run --name rpack-atlas -e USER=user -e PASSWORD=password -p 8787:8787 rpack-atlas:v2.12.0

* USER and PASSWORD that you provided will be used for signing in to Rstudio later

1. **Connect to RStudio Server**

* Open docker desktop and click the play button, and the ports button to open docker container in browser



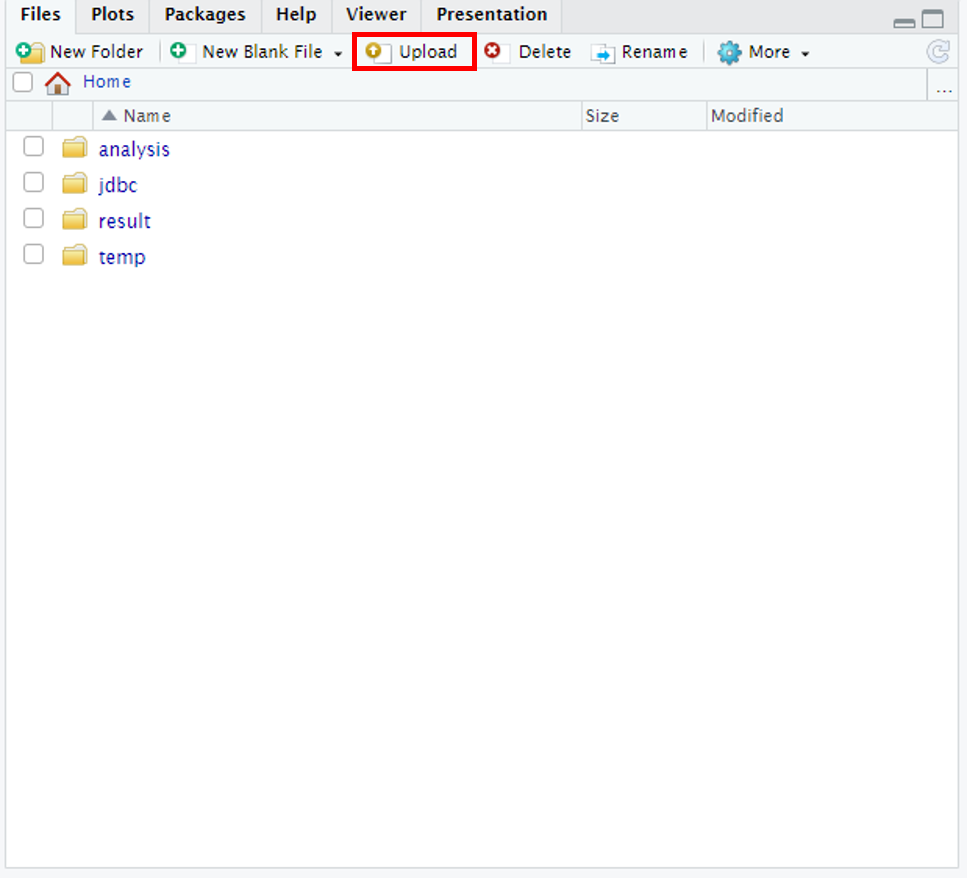
**22**

**12**

1. **Upload the study package**

* Sign in the rstudio using USER and PASSWORD that you provided in Step 7
* Upload the study package you received

(you can use git clone in Rstudio Terminal or upload study package zip file)



* Move to “Rproj” within the study package
* Execute the following code in the R console to deactivate ‘renv’ package

renv::deactivate()

* Install and build your study package and follow the instruction of your study package in README.md file