

Docker

1. Dockerfile script detailing how container should be installed

2. Docker Engine builds an "image" using the script

3. Because Docker is standardised across all OS, the image will run inside

Docker identically on **any** machines

▶ Docker is lightweight compared to VM



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1. `Dockerfile` script detailing how compilers and R packages should be installed
 2. Docker Engine builds an “image” using the script
 3. Because Docker is standardised across all OS, the image will run inside Docker identically on **any** machines
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- ▶ Docker is light-weight compare to VM
 - ▶ Community support (RStudio + BioC)

Upload Dockerfile to GC

**GC downloads R and data
files to
SYD cloud server**

**GC – SYD opens up a port for
us to access the Docker
running on the Cloud**

Testing out Google Cloud

1. Type ``setwd("/home/rstudio")`` into your console
2. Click "Go to Working Directory" in the Files pane of RStudio
3. Type ``source("scMerge.R")`` into your console