

# Systems Note 33

## Julia on Linux

Hardware - Mac mini (2018)

OS - macOS Catalina 10.15.5

Emulation - VirtualBox 6.1.12 r139181 (Qt5.6.3) at install time

Emulated OS - Ubuntu 20

In ubuntu `uname -a` shows Linux 5.4.0-42-generic #46-Ubuntu SMP Fri Jul 10 2020 x86\_64 x3 GNU/Linux

From [julialang.org/downloads](http://julialang.org/downloads) download v1.5.0 Generic Linux on x86 64-bit

Open `julia-1.5.0-linux-x86_64.tar.gz` and extract to `~/jn_production`

```
echo 'export PATH="$PATH:/home/bunsen/jn_production/julia-1.5.0/bin"' >> ~/.bashrc
```

```
~/.bashrc
```

```
julia
```

```
using Pkg
```

```
Pkg.add("Julia")
```

```
exit()
```

To run Pluto notebooks

Julia

```
Using Pkg
```

```
PKg.add("Pluto")
```

```
Import Pluto
```

```
Pluto.run(1234)
```

Go to <http://localhost:1234/>

```
bunsen@bunsen-ub20: ~/jln_production
Resolving github-production-release-asset-2e65be.s3.amazonaws.com (github-produc
tion-release-asset-2e65be.s3.amazonaws.com)... 52.216.165.83
Connecting to github-production-release-asset-2e65be.s3.amazonaws.com (github-pr
oduction-release-asset-2e65be.s3.amazonaws.com)|52.216.165.83|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 336779 (329K) [application/octet-stream]
Saving to: '/tmp/jl_AOCbdf-download.gz'

/tmp/jl_AOCbdf-down 100%[=====] 328.89K  890KB/s   in 0.4s

2020-07-29 20:27:31 (890 KB/s) - '/tmp/jl_AOCbdf-download.gz' saved [336779/3367
79]
Updating `~/julia/environments/v1.4/Project.toml`
[7873ff75] + IJulia v1.21.2
Updating `~/julia/environments/v1.4/Manifest.toml`
[8f4d6f93] + Conda v1.4.1
[7873ff75] + IJulia v1.21.2
[682c06a0] + JSON v0.21.0
[739be429] + MbedTLS v1.0.2
[c8ffd9c3] + MbedTLS_jll v2.16.6+1
[69de0a69] + Parsers v1.0.7
[b85f4697] + SoftGlobalScope v1.0.10
[81def892] + VersionParsing v1.2.0
[c2297ded] + ZMQ v1.2.1
[8f10e5be] + ZeroMQ_jll v4.3.2+4
[2a0f44e3] + Base64
[ade2ca70] + Dates
[8ba89e20] + Distributed
[7b1f6679] + FileWatching
[b77e8a4c] + InteractiveUtils
[76f85450] + LibGit2
[8f399da3] + Libdl
[56ddb016] + Logging
[d6f4376e] + Markdown
[a63ad114] + Mmap
[44cfe95a] + Pkg
[de8858da] + Printf
[3f90cd90] + REPL
[9a3f0284] + Random
[ea8e919c] + SHA
[9e88b42a] + Serialization
[6462fe0b] + Sockets
[8dfed614] + Test
[cf7118a7] + UUIDs
[4ec0a83e] + Unicode
Building Conda -> `~/julia/packages/Conda/3rPhK/deps/build.log`
Building IJulia -> `~/julia/packages/IJulia/DrVMH/deps/build.log`

julia>
```

