

ACM Containers 101 Workshop

Virtual Machines Demo

I have a MacOS and I will use UTM (VM for Mac and iOS)

Hardware: Apple Silicon M4

Host OS: MacOS

Hypervisor: UTM

Guest OS: Alpine Linux(very very lightweight; literally has nothing in it not even **python**)

You can run these commands sequentially

1. uname -a # prints system info
2. free -h # prints memory info
3. ps aux # prints what processes are running
4. mkdir test # let's make a directory/folder called test
5. vi [helloworld.py](#) # create python file that prints out helloworld
6. python3 [helloworld.py](#) # run [helloworld.py](#) but it won't run
7. apk update # shows repo status
8. ip addr # shows IP address
9. setup-interface # setups network
10. setup-dns # translate domain names to human readable names eg. google.com → 142.250.x.x
11. ping [google.com](#)
12. ipr addr # shows IP address
13. setup-apkrepos # set ups apk repos from a remote host
14. apk update
15. apk search -v python3 # search python3 relate packages
16. apk add python3 # add python3 from remote host
17. Run [helloworld.py](#) !!!!