

# 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**)

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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](#) !!!!