[544] Deploying on Linux

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Learning Objectives

- navigate a Linux file system
- operate within a Linux shell
- automate repeated tasks
- chain multiple Linux programs together into a pipeline
- redirect process output to a file

A Shell: the most helpful program?

Shell program

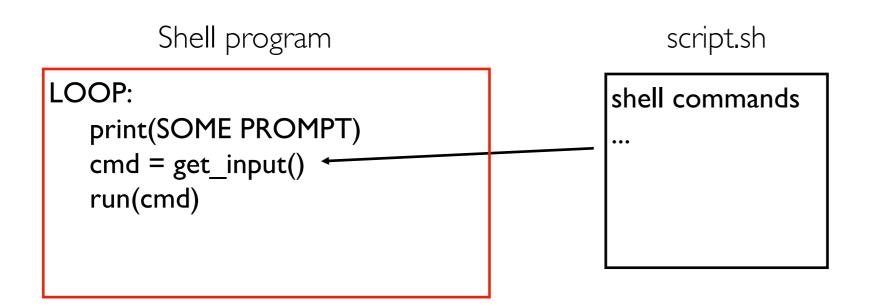
```
LOOP:

print(SOME PROMPT)

cmd = get_input()

run(cmd)
```

If you can type it, you can automate it.



You can start running a shell inside a shell

SSH: Secure Shell

```
meenakshisyamkumar — meenakshisyamkumar@instance-1: ~ — ssh meenakshisyamkumar@34.71.75.41 — 87×33
running on
                  [meenakshisyamkumar:~$ hostname
                  Meenakshis-MacBook-Air.local
my laptop
                  [meenakshisyamkumar:~$ ssh meenakshisyamkumar@34.71.75.41
                  Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-1019-gcp x86_64)
                    * Documentation: https://help.ubuntu.com
                                      https://landscape.canonical.com
                    * Management:
                    * Support:
                                      https://ubuntu.com/pro
                     System information as of Thu Jan 25 18:57:00 UTC 2024
                     System load: 0.0
                                                      Processes:
                                                                             105
                    Usage of /: 7.9% of 24.05GB Users logged in:
                                                      IPv4 address for ens4: 10.128.0.3
                     Memory usage: 11%
                     Swap usage:
                                   0%
                   Expanded Security Maintenance for Applications is not enabled.
                   0 updates can be applied immediately.
                   Enable ESM Apps to receive additional future security updates.
                   See https://ubuntu.com/esm or run: sudo pro status
                  Last login: Thu Jan 25 18:57:01 2024 from 172.220.116.84
running on
                  [meenakshisyamkumar@instance-1:~$ hostname
                 → instance-1
                   meenakshisyamkumar@instance-1:~$
```