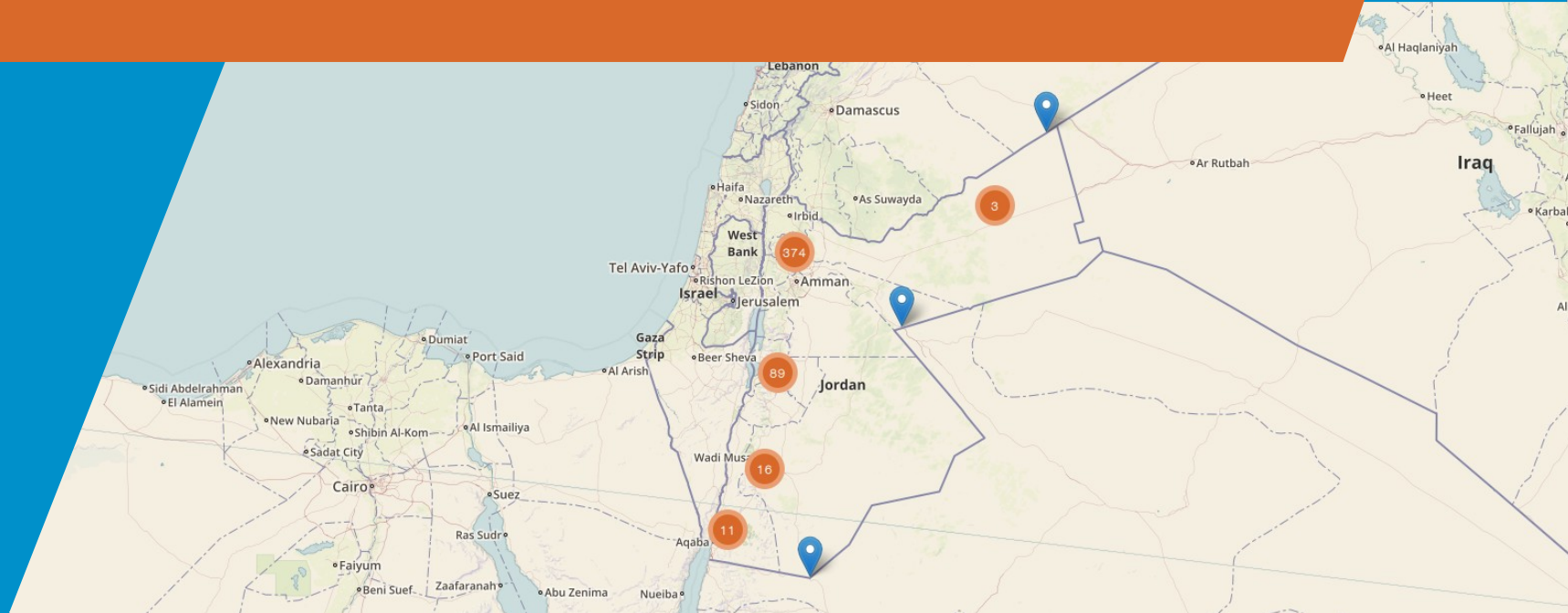




IERS · Public Health Surveillance



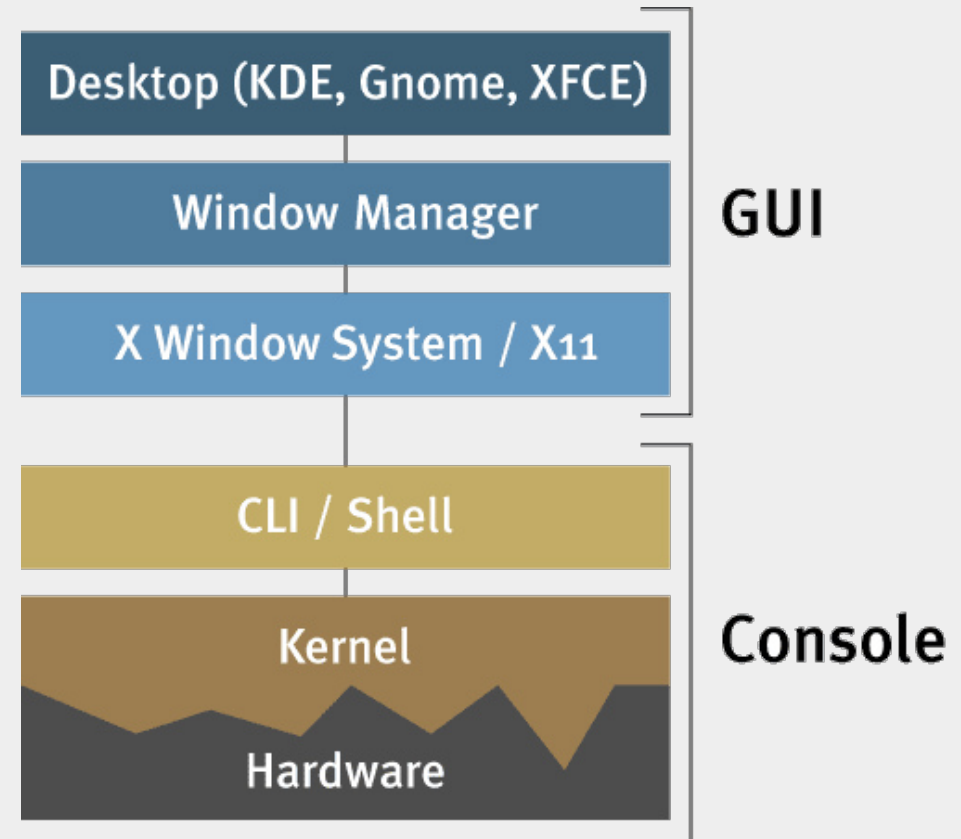
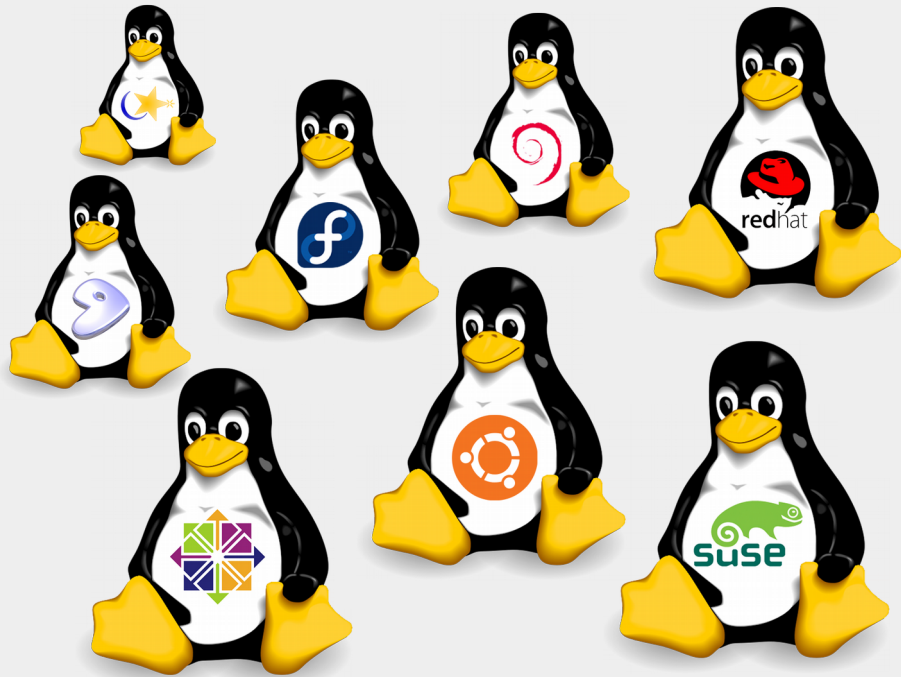
Meerkat Software Training
Recapping Linux & Docker

Overview

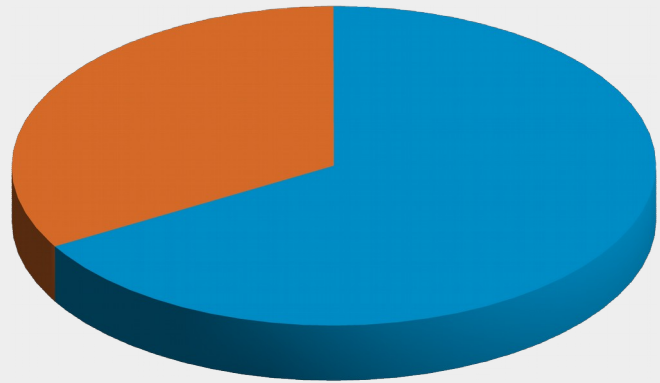
- **Talk:** Recapping Linux [15]
- **Exercises:** Getting started with Linux [30]
- **Talk:** Recapping Docker [15]
- **Exercise:** Getting started with Docker [55]
- **Summary** [5]

[Total time: 120 mins]

What is Linux?



Why Linux?



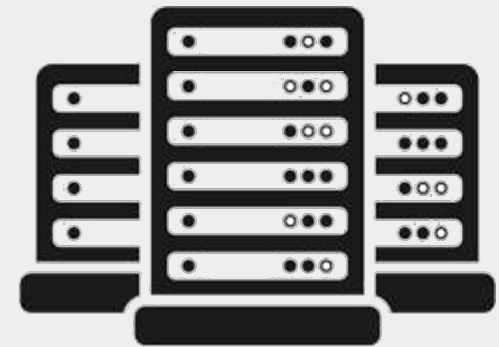
66% use in
public servers

71%
of mobile devices
(Android)



Power.
Flexibility.
Support.

100% use in
Top500 supercomputers



Source: https://en.wikipedia.org/wiki/Usage_share_of_operating_systems

How do we use Linux?

```
jonathan@ullswater:~$ whoami
jonathan
jonathan@ullswater:~$ cd meerkat/
jonathan@ullswater:~/meerkat$ ls
bower_components  meerkat_analysis  meerkat_docs      meerkat_jordan    meerkat_puntland  meerkat_tunnel
deploy            meerkat_api       meerkat_forager   meerkat_libs      meerkat_rms       node_modules
Dr Jonathan S Berry meerkat_auth      meerkat_forms     meerkat_logging  meerkat_runner    training
Fjelltopp Ltd     meerkat_consul    meerkat_frontend  meerkat_mad       meerkat_somalia   website
meerkat           meerkat_deploy    meerkat_hermes    meerkat_mob       meerkat_somaliland who-collect
meerkat_abacus    meerkat_dev        meerkat_infrastructure meerkat_nest      meerkat_southcentral

jonathan@ullswater:~/meerkat$ cd meerkat_dev/compose/
jonathan@ullswater:~/meerkat_dev/compose$ docker-compose up -d
Starting compose_db_1 ...
Starting compose_auth_1 ...
Starting compose_mob_1 ...
Starting compose_hermes_1 ...
Starting compose_api_1 ...
Starting compose_rabbit_1 ...
Starting compose_dynamodb_1 ...
Starting compose_frontend_1 ...
Starting compose_rabbit_1 ... done
Starting compose_frontend_1 ... done
Starting compose_runner_1 ... done
Starting compose_auth_1 ... done
Starting compose_nginx_1 ... done
jonathan@ullswater:~/meerkat/meerkat_dev/compose$
```

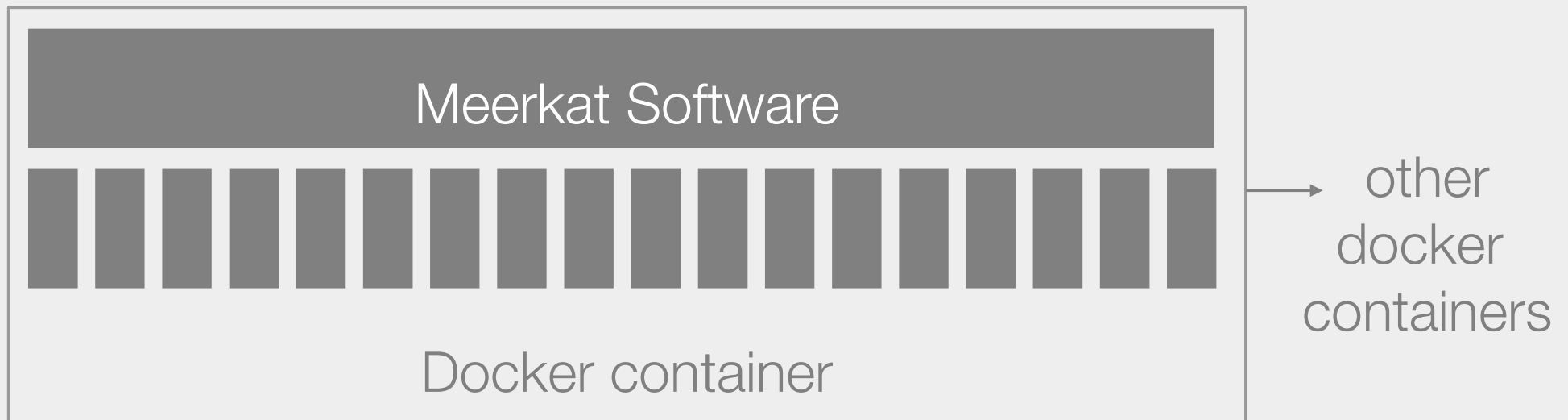


PuTTY

Exercise: SSH into a linux server

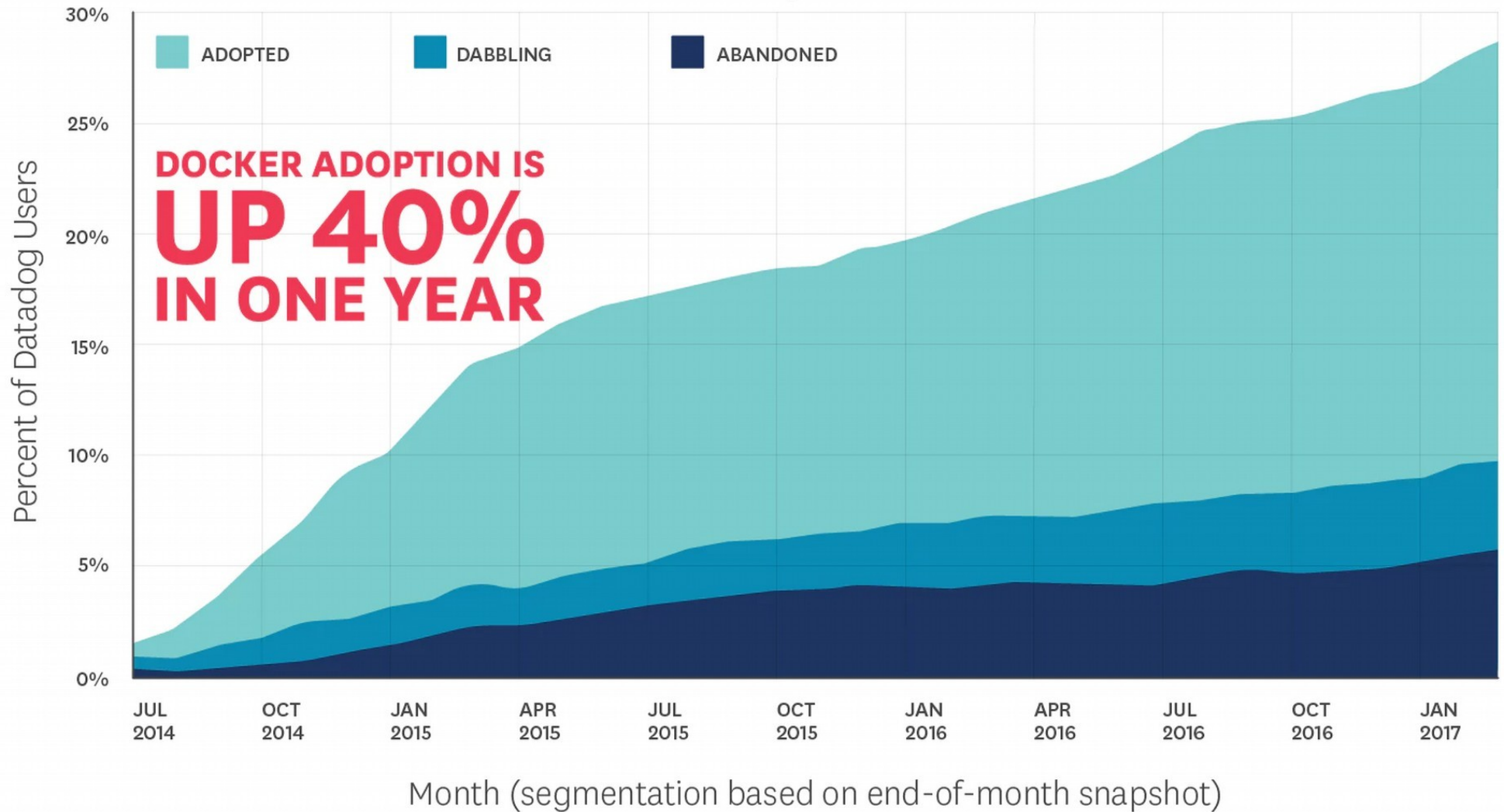
<http://guide.bash.academy/>

What is Docker?



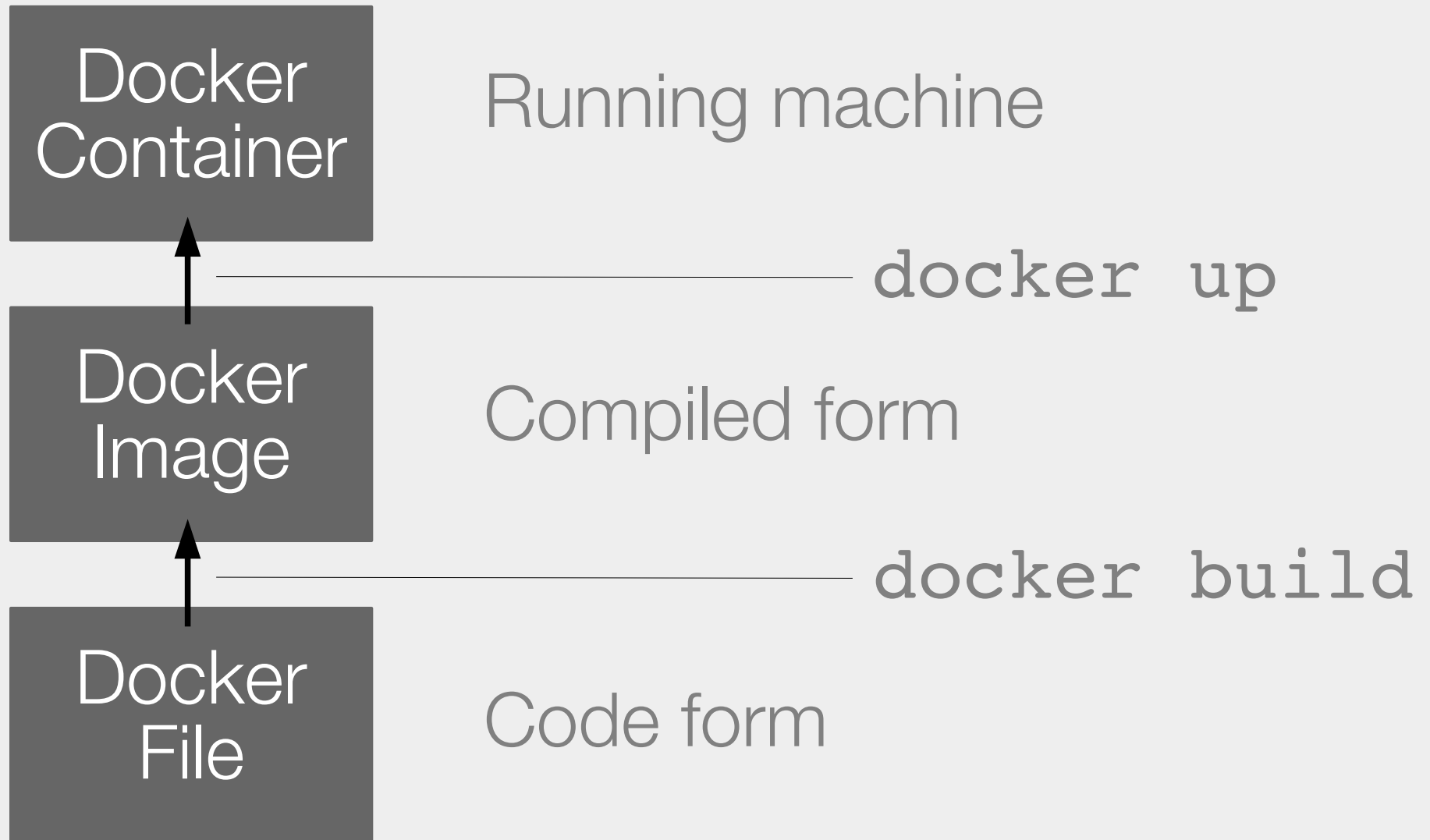
Why Docker?

Docker Adoption Behavior



Source: Datadog

How do we use Docker?



Exercise: Installing Docker

Create some containers

Summary

Linux is essential to working with Meerkat

There is a huge amount of freely available support
e.g. <http://guide.bash.academy/>

Docker separates software from infrastructure

Docker is essential to administering Meerkat

There is a huge amount of freely available support
e.g. <https://docs.docker.com/>