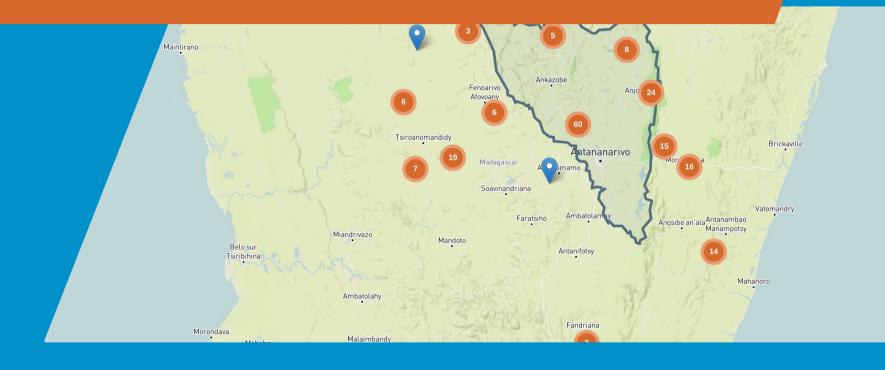
### IEES · Public Health Surveillance



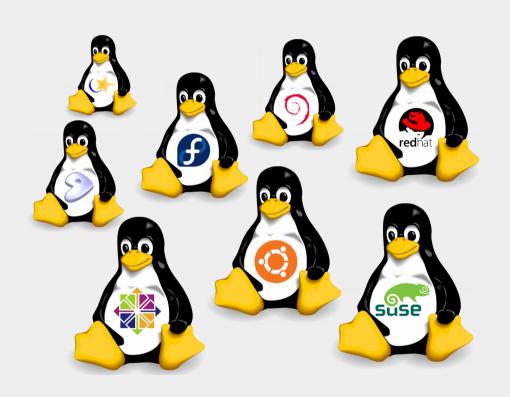
Meerkat Software Training Server Infrastructure - Linux & Docker

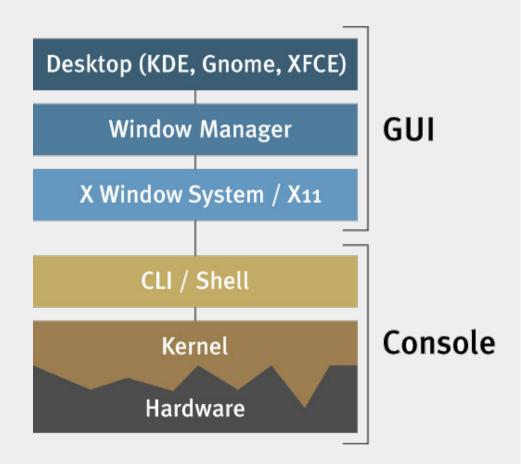
# Overview

<ul> <li>Talk: Recapping Linux</li> <li>Exercises: SSH &amp; Getting started with Linux</li> </ul>	[15] [45]
• Exercises: The command line  Talk: Text editing from the command line  Exercises: Text editing and more command line	[60] [15] [60]
<ul> <li>Talk: Introduction to Docker</li> <li>Exercises: Installing docker</li> <li>Exercises: Getting started with docker</li> </ul>	[15] [30] [45]
• Exercises: Meerkat Development Environment	[75]

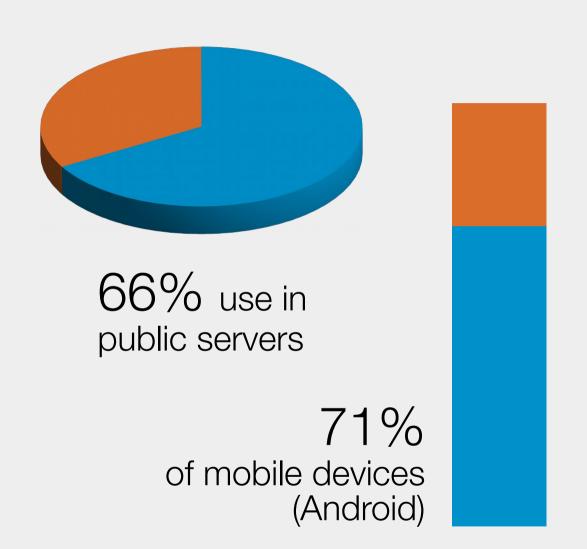
Meerkat Software Training

### What is Linux?





## Why Linux?



Power. Flexibility. Support.

100% use in Top500 supercomputers



Source: https://en.wikipedia.org/wiki/Usage\_share\_of\_operating\_systems

### How do we use Linux?

```
ionathan@ullswater:~$ whoami
ionathan
jonathan@ullswater:~$ cd meerkat/
ionathan@ullswater:~/meerkat$ ls
bower components
                     meerkat analysis
                                       meerkat docs
                                                               meerkat jordan
                     meerkat api
                                       meerkat forager
                                                               meerkat libs
deplov
Dr Jonathan S Berry meerkat auth
                                       meerkat forms
                                                               meerkat logging
                                       meerkat_frontend
Fielltopp Ltd
                     meerkat consul
                                                               meerkat mad
meerkat
                     meerkat deploy
                                       meerkat hermes
                                                               meerkat mob
                     meerkat dev
meerkat abacus
                                       meerkat infrastructure meerkat nest
jonathan@ullswater:~/meerkat$ cd meerkat dev/compose/
ionathan@ullswater:~/meerkat/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$
```

meerkat\_puntland
meerkat\_rms
meerkat\_runner
meerkat\_somalia
meerkat\_somaliland
meerkat\_southcentral

meerkat\_tunnel node\_modules training website who-collect



PuTTY

### Exercise: SSH into a linux server

Installing and using PuTTY

### Exercise: The Command Line

http://guide.bash.academy/

## Editing text documents



No mice.
No windows.
No graphics.

### VIM: My personal text editor of choice

```
jonathan@ullswater: ~
                                         VIM - Vi IMproved
                                         version 7.4.1689
                                     by Bram Moolenaar et al.
                      Modified by pkg-vim-maintainers@lists.alioth.debian.org
                            Vim is open source and freely distributable
                                   Become a registered Vim user!
                                :help register<Enter> for information
                               :q<Enter>
                                                        to exit
                          type
                               :help<Enter> or <F1> for on-line help
                          type
                                :help version7<Enter> for version info
                          type
                                                                                  0,0-1
                                                                                                All
```

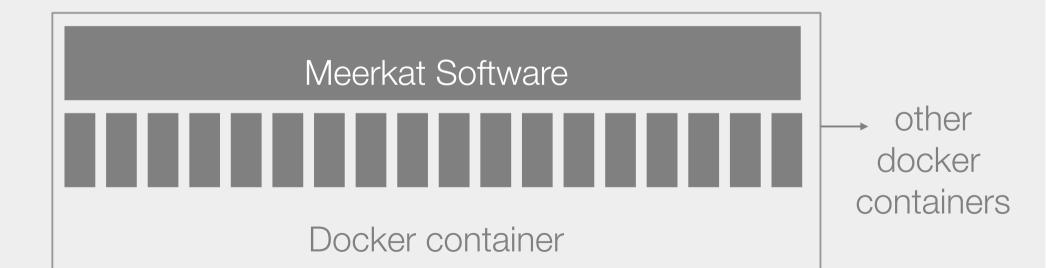
Meerkat Software Training 9/16

### Exercise: Introduction to VIM

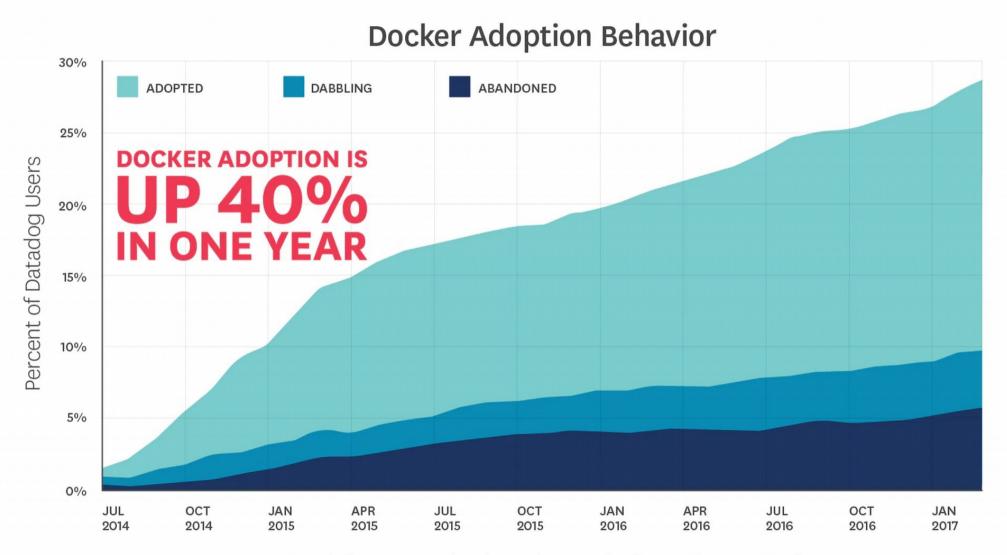
www.openvim.com

### What is Docker?





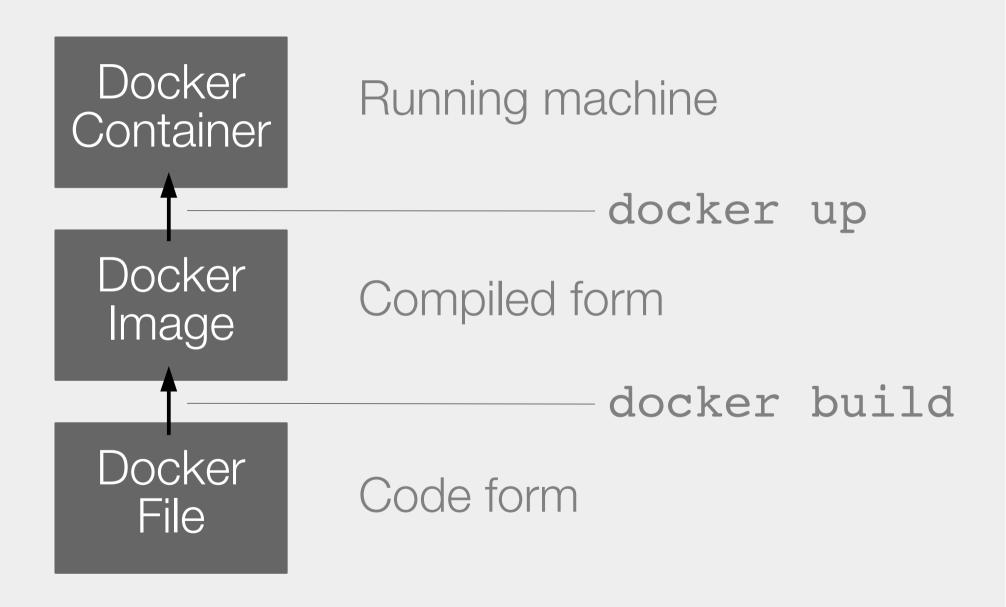
## Why Docker?



Month (segmentation based on end-of-month snapshot)

Source: Datadog

### How do we use Docker?



## Exercise: Installing Docker

Hello World!

## Exercise: Getting started

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/