

IERS · Public Health Surveillance



Meerkat Software Training Tackling Bugs

Overview

• Talk: Debugging Meerkat Software [15]

Why do bugs exist?

Minimising their impact

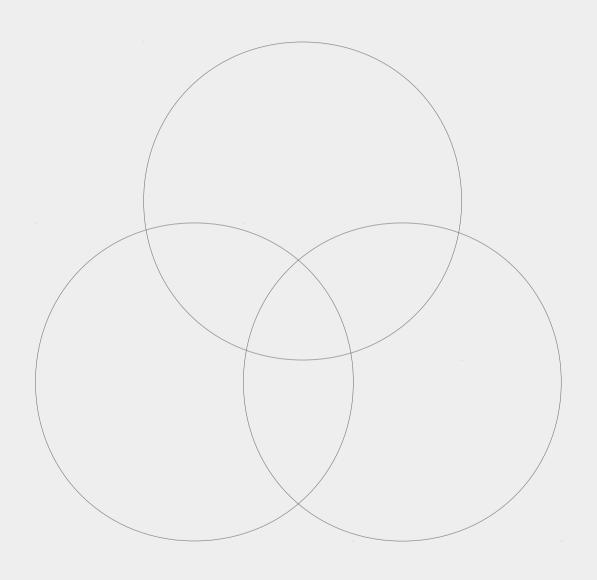
A four step debugging strategy

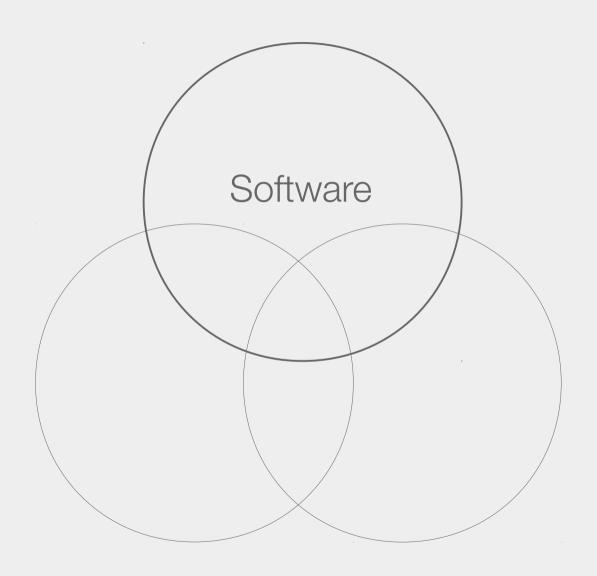
A toolbox of commands

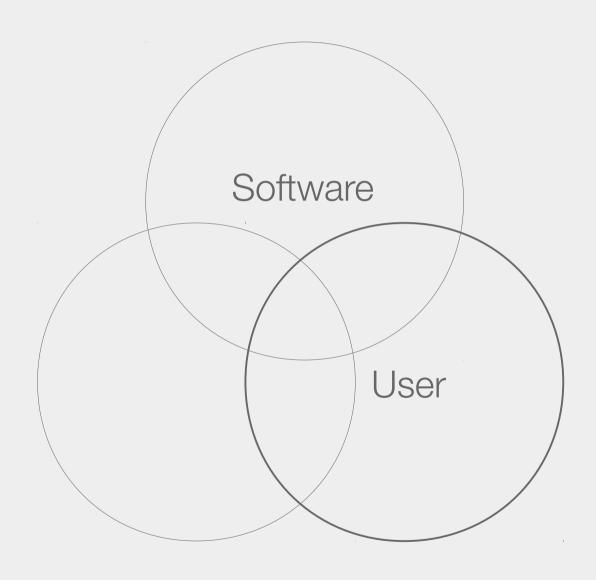
• Exercises: Common issues [70]

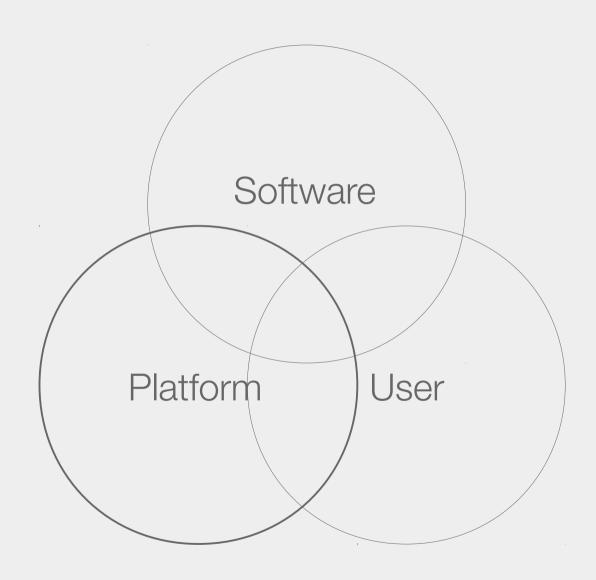
• Summary [5]

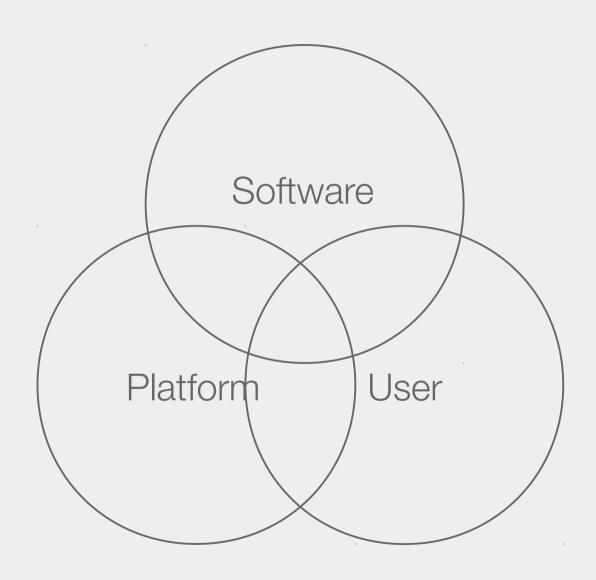
[Total time: 90 mins]

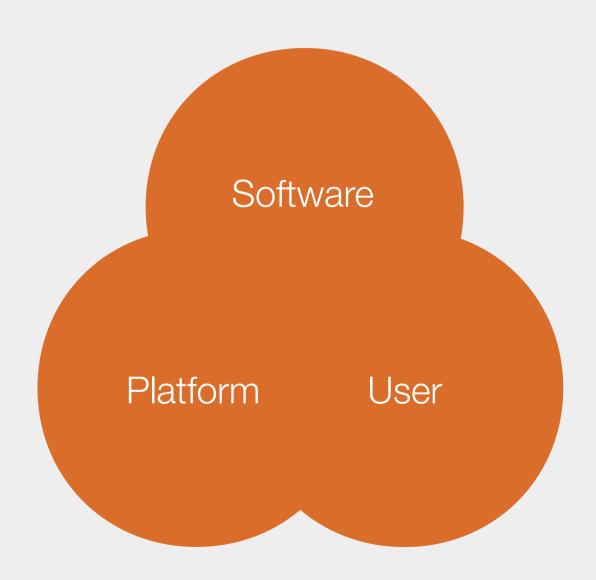












Minimising the impact of bugs

Proper error handling

Testing Rigs

Error Reporting

Alpha/Beta Environments

Testers

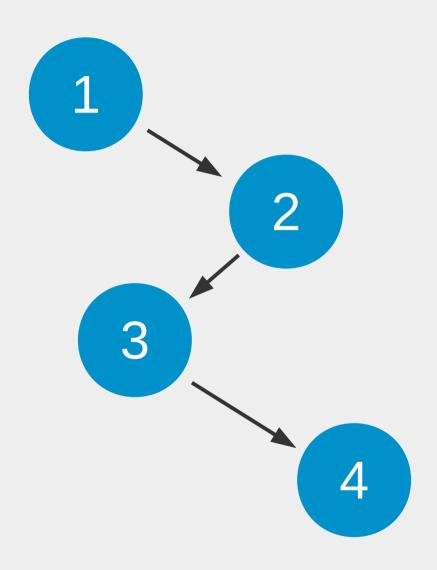
Time and Maturity

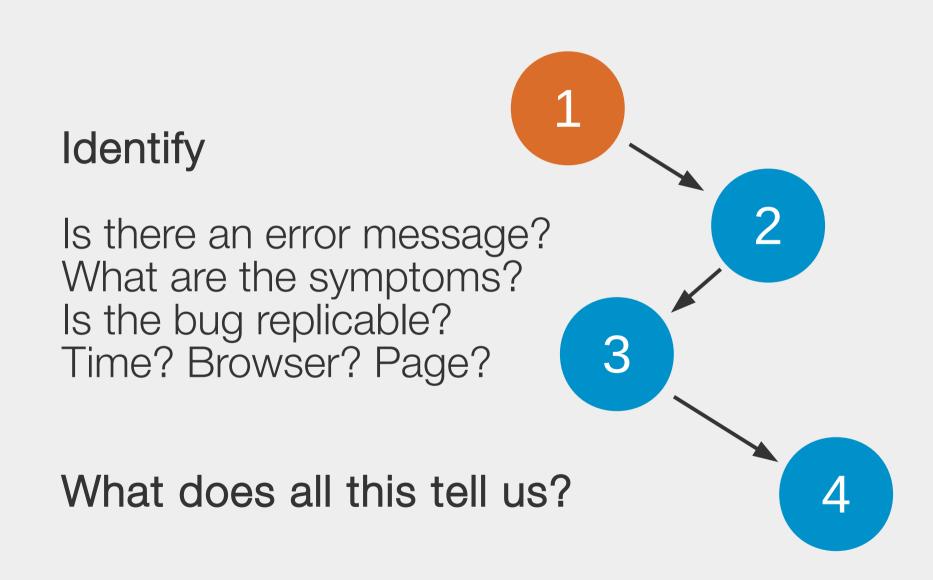
Identify

Understand

Diagnose

Fix (or report)





Understand

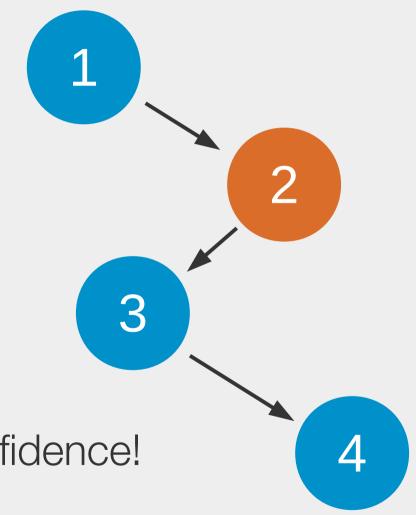
LOOK.

AT.

THE.

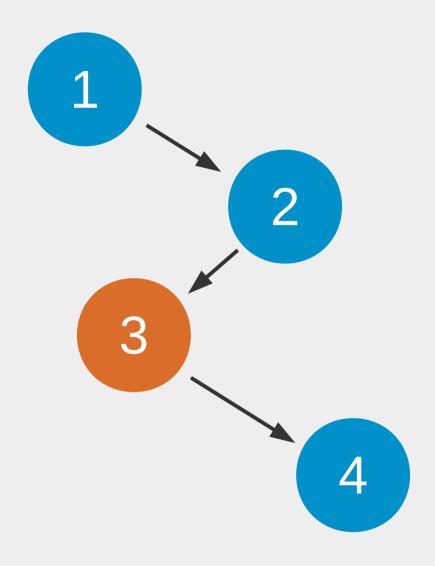
LOGS.

This can be hard – confidence!



Diagnose - Is it...

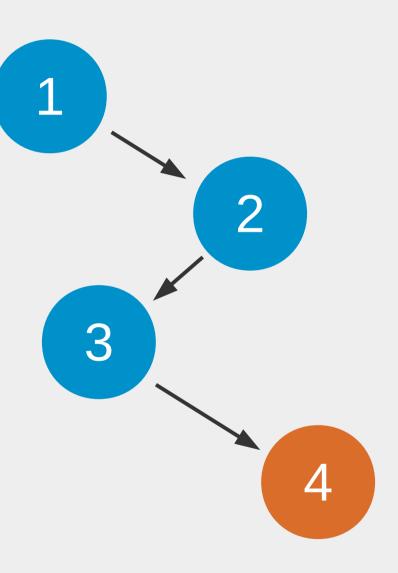
- User?
- Programming?
- Docker?
- Hardware?
- Network?



Fix or report the bug

"Toolbox" of commands

Provide all gathered info In a bug report

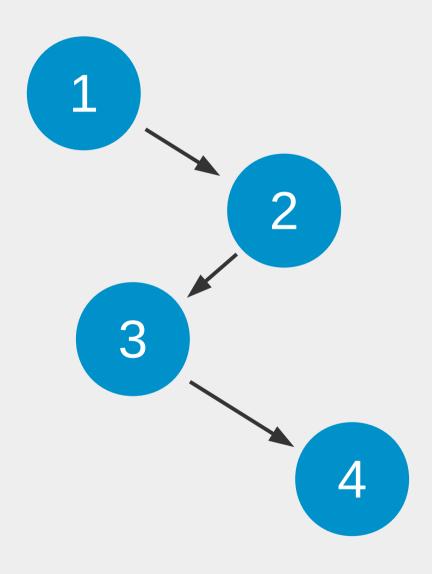


Identify

Understand (LOGS!)

Diagnose

Fix (or report)



A "toolbox" of commands

```
Logs
  docker-compose logs <service>
   less /var/log/syslog
Docker
  docker-compose ps
  docker-compose restart
  docker-compose down
  docker-compose up -d
System
  df -h
  htop
```

Exercise: Debugging

Tackling some common issues

Summary

Four point strategy:

- Identify

- Understand

- Diagnose

- Fix or Report

Look at the logs!!!

Learn the toolbox of commands