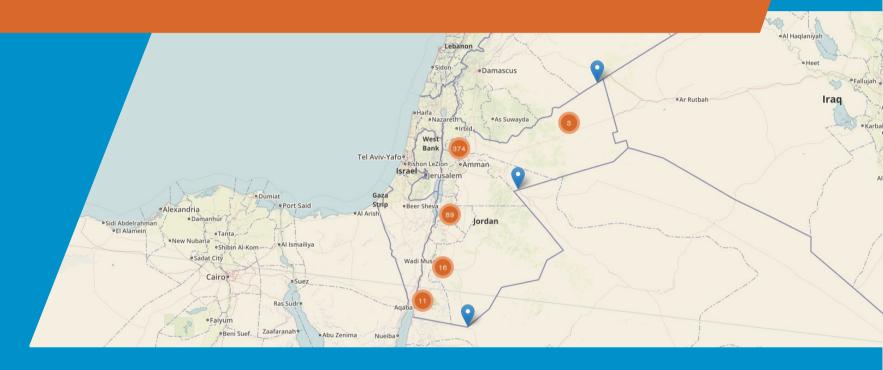
Jordan · Public Health Surveillance



Meerkat Software Training
The MOH Server Software Stack

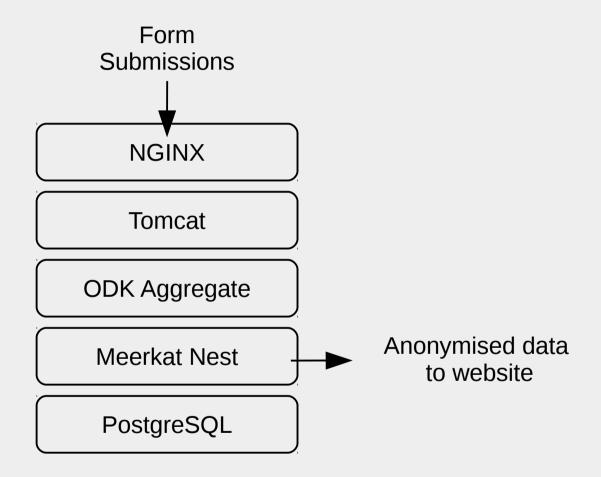
Overview

• Talk: Software on the MOH Server	[10]
Talk: Spotlight on PostgreSQL	[5]
• Exercises: Setting up PostgreSQL	[20]
• Talk: Spotlight on the NGINX Webserver	[5]
• Exercise: Setting up a Webserver	[45]
• Summary	[5]

Meerkat Software Training

[Total time: 90 mins]

Software Stack



Meerkat Software Training 3/17

NGINX - Webserver

NGINX

Tomcat

ODK Aggregate

Meerkat Nest



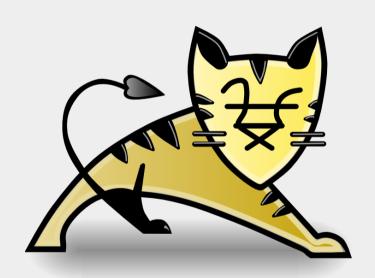
Tomcat - Webserver

NGINX

Tomcat

ODK Aggregate

Meerkat Nest



ODK Aggregate – Form Hub

NGINX

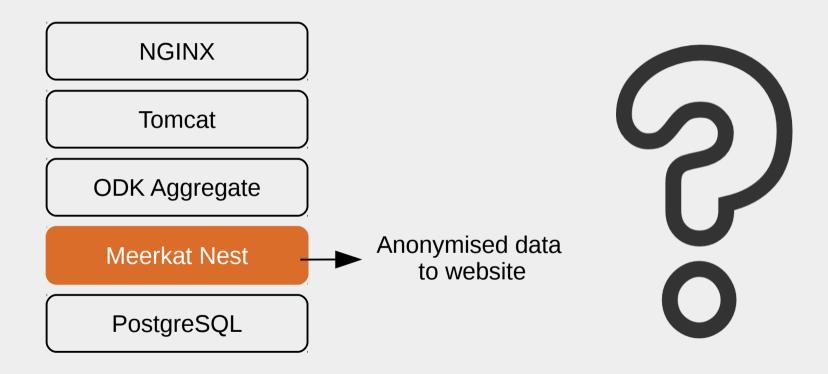
Tomcat

ODK Aggregate

Meerkat Nest



Meerkat Nest - Data export



PostgreSQL - Database

NGINX

Tomcat

ODK Aggregate

Meerkat Nest



Spotlight: PostgreSQL



Why PostgreSQL?

- Open source, community driven and free
- Strong support community and documentation
- Cross platform
- Incredibly reliable and stable
- Does everything!

PostgreSQL – Some Key Concepts

- PostgreSQL can hold multiple databases
- Each database holds multiple tables
- "Roles" determine access and authorisation for these objects.
- By default postgresql will try to log you in using the same role title as your Linux username

Exercise: PostgreSQL Databases

Installation and Setup

Spotlight: NGINX Webserver



Why NGINX?

- Fast! Performs well in benchmarking tests.
- Extremely scalable
- Flexible write and install plugins
- Well supported and documented
- Free and open source!

NGINX Configuration Files

- Kept in /etc/nginx/
- Nested contexts
- Very powerful
- Beyond our scope

```
http {
    server {
        listen 80
        server name demo.emro.info
        location /{
    server {
        listen 443
        server name demo.emro.info
mail {
events {
```

Exercise: NGINX Webserver

Setting up a secure webserver

Summary

The MOH Server Software Stack:

NGINX
Tomcat
ODK Aggregate
Meerkat Nest
PostgreSQL

Installed significant Linux packages: PostgreSQL & NGINX Countless tutorials/docs online to help you e.g...

https://www.nginx.com/resources/wiki/

https://www.postgresql.org/docs/

and of course: google.com