

John Flynn Matthew

AGENDA

Introduction

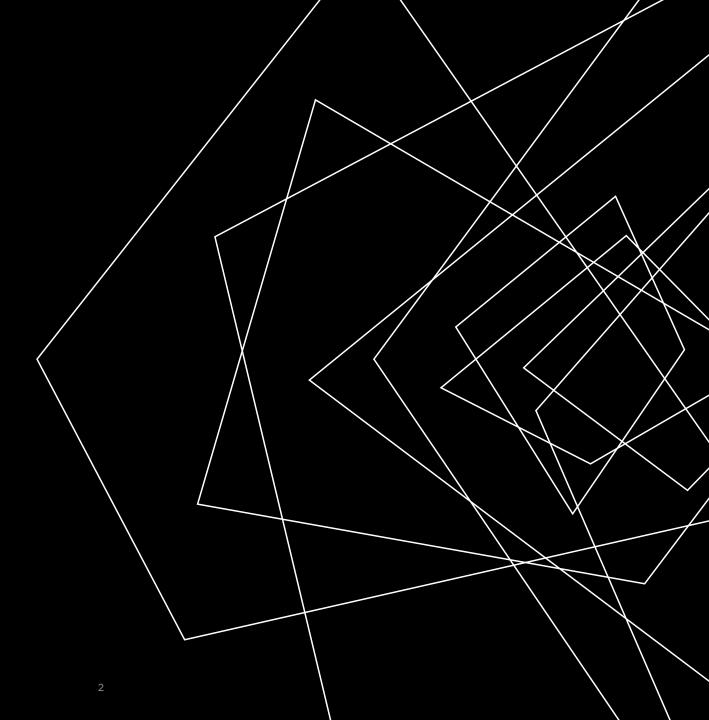
What / Why a Platform-as-a-Service

Why PIKU?

Features of PIKU

Architecture

Hands on



INTRODUCTION

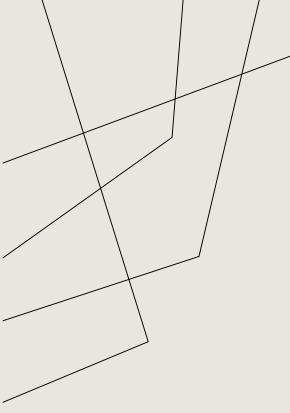
Hello, my name is John Matthew.

Been in the IT industry for 44 yrs. (yikes). I love programming.

Started with dBase, FoxPro, Delphi. Now I spend my spare time in Python and Django.

I discovered PIKU and want to share my experience and excitement for it





WHAT IS PLATFORM-AS-A-SERVICE

Heroku

"Heroku is a cloud platform that lets companies build, deliver, monitor and scale apps — we're the fastest way to go from idea to URL, bypassing all those infrastructure headaches."

Google (App engine)

"Platform as a Service, also known as PaaS, is an environment that offers a flexible, scalable cloud platform to develop, deploy, run, and manage apps.

. . .

PaaS provides everything developers need for application development without the headaches of updating the operating system and development tools or maintaining hardware."

Microsoft (App Service)

"Platform as a service (PaaS) is a complete development and deployment environment in the cloud, with resources that enable you to deliver everything from simple cloud-based apps to sophisticated, cloud-enabled enterprise applications."

John

\$>git push

Deploy Fast \$>git push piku is all you need to get new code to your server and deployed Inexpensive PIKU runs on a simple \$5 DO droplet for as many apps as you like Simple For simple to moderate projects, I don't need containers, Kubernetes, Lamba, etc. I just want a simple NGINX + WSGI + Python app environment Scalable I can scale my app with one command

WHY PIKU?

PIKU'S CORE VALUES

Must run on low end devices

Accessible to hobbyists and K-12 schools

~1500 lines readable code

Few (single?) dependencies

Simplify user experience.

Cover 80% of common use cases

Leverage standard tooling (git, ssh, uwsgi, nginx).

Sensible defaults for all features

Simple install ————

Install takes <2 min and you're up and running

Automatic SSL ———

Let's Encrypt integration provides SSL certs when you push code, and it generates self-signed ones just in case

Procfile —

Procfile functionality from Heroku is utilized in PIKU.

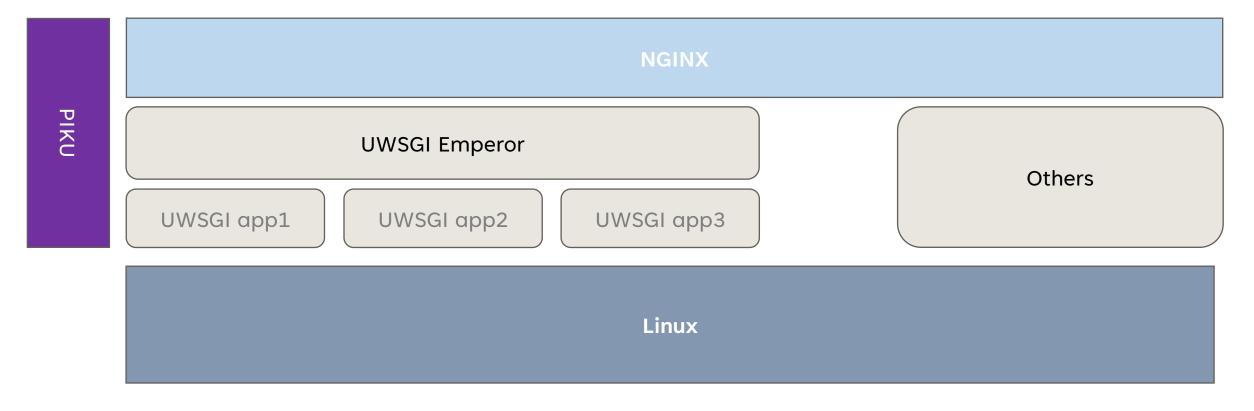
Simple CLI

Uses SSH for pushing code and deployment

Provides a piku command line interface for managing your application: Logs, Scale, Restarts, environment

PIKU FEATURES

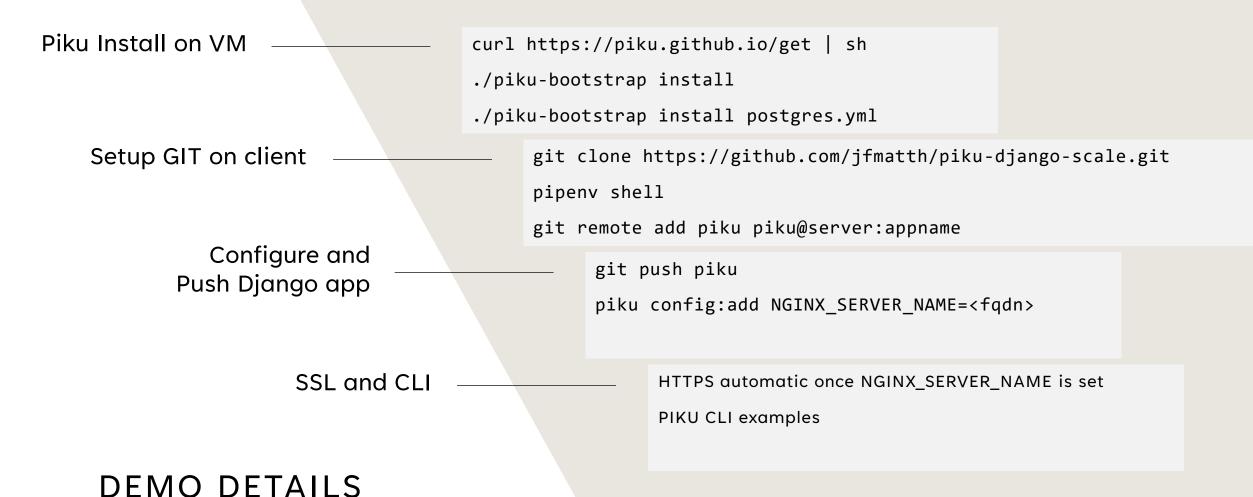
PIKU ARCHITECTURE

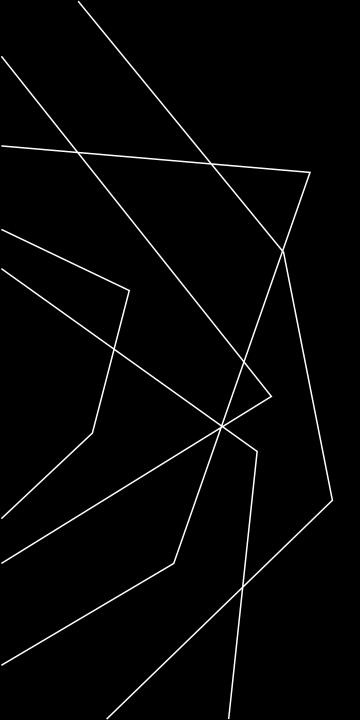


DEMO TIME

- 1. Install (<5m)
- 2. Setup GIT
- 3. Push Django app
- 4. SSL test
- 5. PIKU cli

Questions during are welcome





THANK YOU

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https://www.github.com/jfmatth