ExpertField

试验田与试验数据管理系统

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Background

ExpertField背景介绍

Data Flow

ExpertField数据流

Into the Office -Web pages

- Add an Field
- Create an Experiment
- Add the Field to the Experiment
- Create QR code →
- ← Review the uploaded data
- Replay the audio or Edit/Delete data

Onto the Field -Android app

- Scan the QR code
- Select the Experiment
- Input data or Record a piece of audio
- Replay the audio or Save/Upload data

Cloud

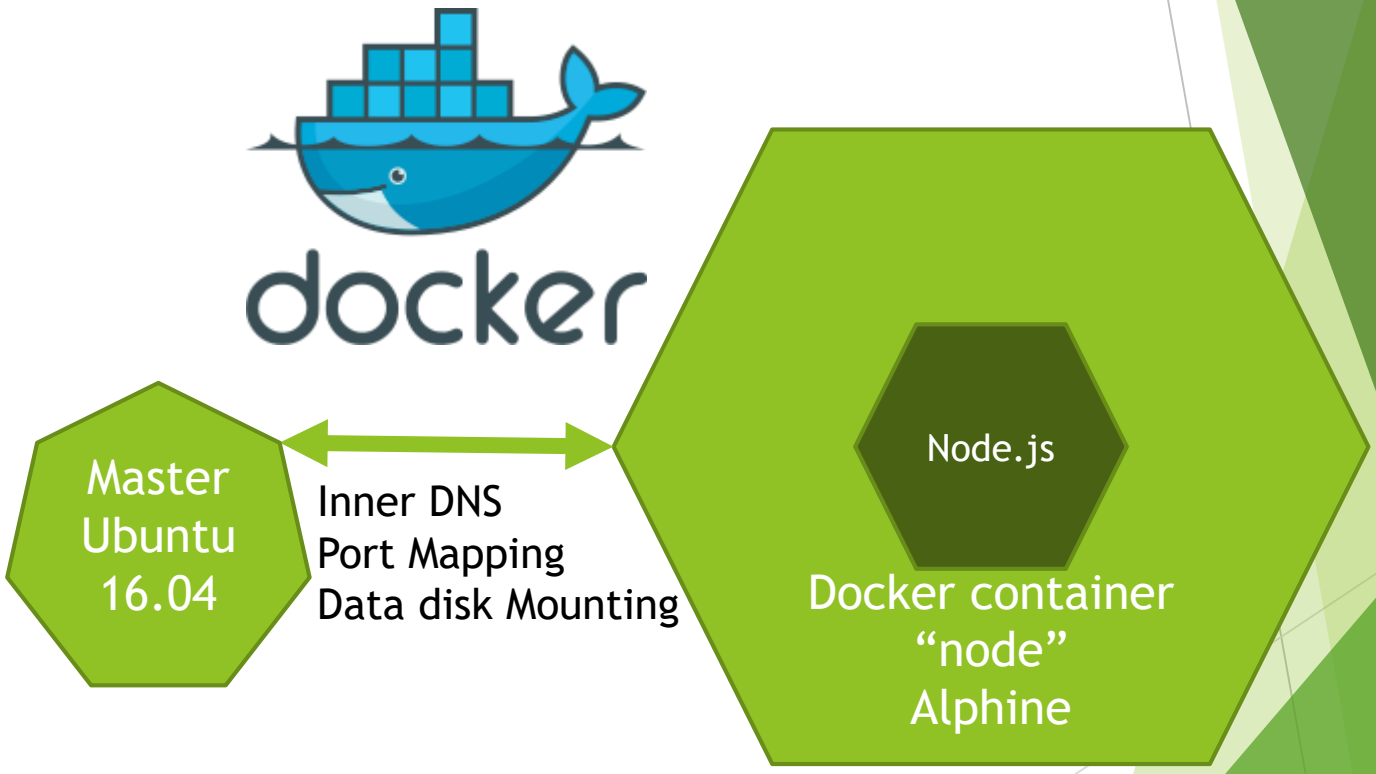
ExpertField 云端架构

App Backend —— Node.js

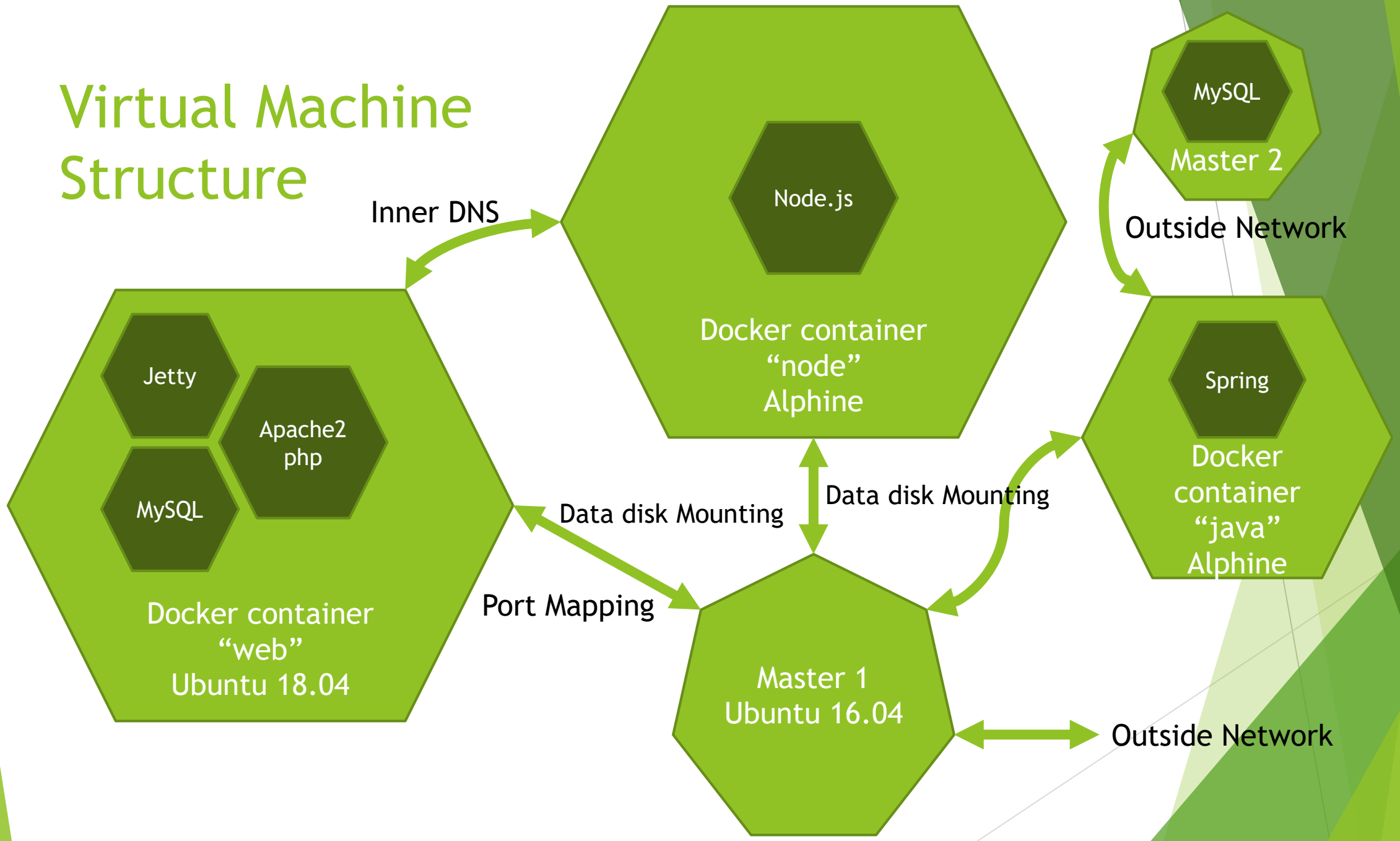
- Node.js is a high performance network application framework, well optimized for high concurrent environments.
- Node.js uses an event-driven, non-blocking I/O model, which makes it lightweight.
- Everything inside Node.js runs in a single-thread.

Docker
Build, Ship, and Run Any App, Anywhere

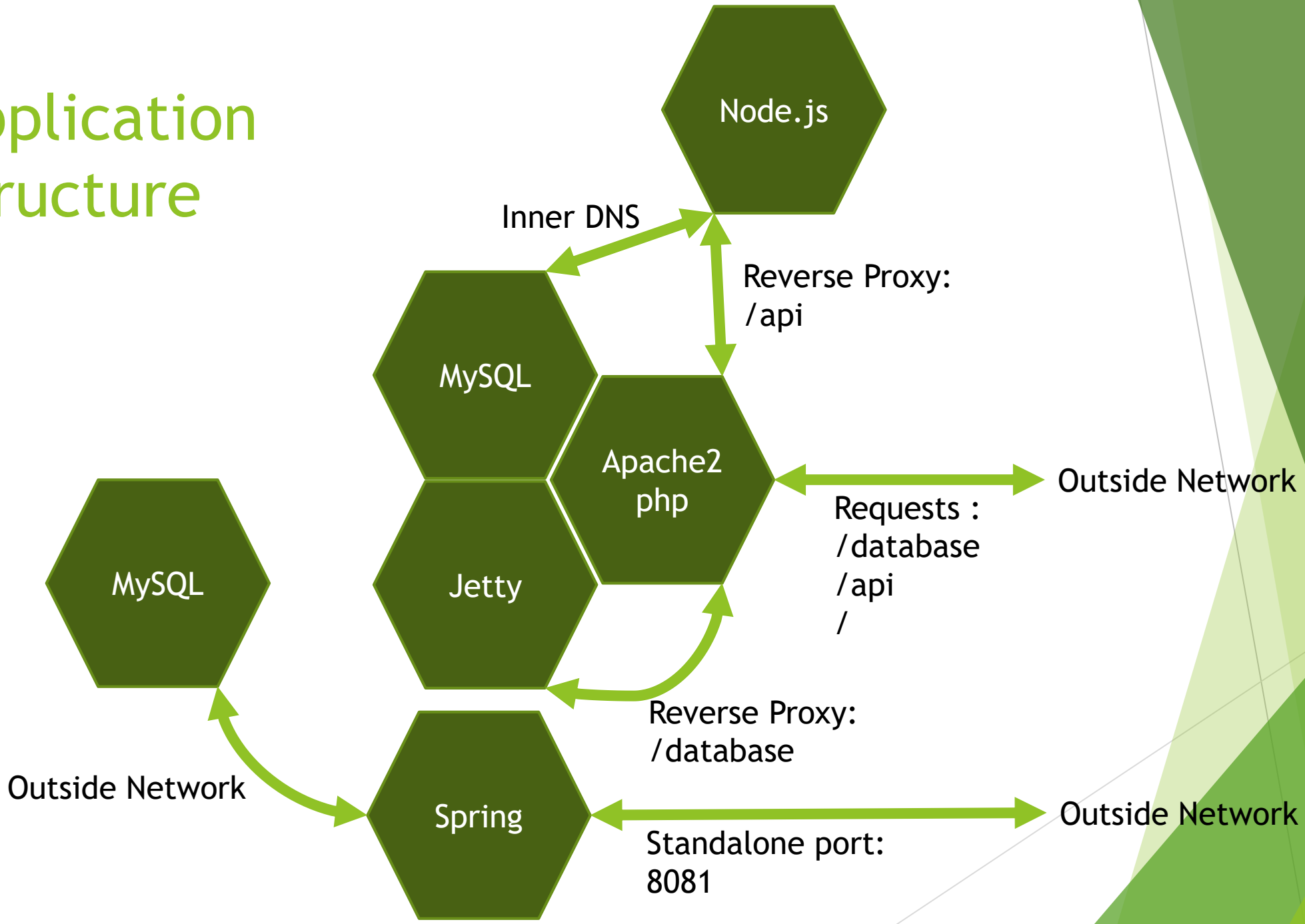
- Combined Microservice
- Alpine
- Image, Container, Swarm



Virtual Machine Structure



Application Structure



Thank you!

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