Heroku
A Platform Case Study

Sawood Alam
salam@cs.odu.edu
Introduction

- PaaS on top of Amazon EC2 IaaS
- Polyglot cloud application platform
- Instant app deployment
- Fault tolerance
- Git based workflow
- Custom CLI
- No SSH access
- HTTP caching
- Memcached
- Logging
- On-demand infinite scaling
Architecture

- LXC OS virtualization
- Git code repository
- Control Surface API
- DNS and Routing
- Dynos
- Slug
- Logplex
- Database
- Asset store
- Add-ons
- External APIs
How It Works

Official interactive platform description

http://www.heroku.com/how
Platform Features

- Dyno isolation
  - LXC based OS level virtualization
  - Sub-virtualized resource
  - Process table isolation
- Ephemeral filesystem
- No competing processes for resources
- Avoiding thrashing
- Erosion-resistant
- Load balancing
Questions?

Thank you!

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