USING PKGSRC FOR MULTI-PLATFORM DEPLOYMENTS

IN HETEROGENEOUS ENVIRONMENTS

PKGSRC

ALL THE THINGS

ABOUT ME

GCW@810NS.COM

G. CLIFFORD WILLIAMS

- "G." is for George, and I loathe that name. I go by Cliff
- married: 0 kids, 2 dogs, 4 nieces, 3 nephews
- Highly opinionated // practically agnostic

WHAT I DO IS

- Build Private Clouds (OpenNebula, OpenStack, Triton)
- Migrate applications to "the Cloud" (public or private)
- Build out deployment scripts/recipes (SaltStack, Chef, CFEngine, Puppet, Ansible, CDist)
- Automate Cloud Infrastructure (SaltCloud, Terraform, CloudFormation, etc)

AUTOMATION CONFIGURATION VIRTUALIZATION INTEGRATION

ALL THE "—ATIONS"

AUTOM-ATION CONFIGUR-ATION VIRTUALIZ-ATION INTEGR-ATION

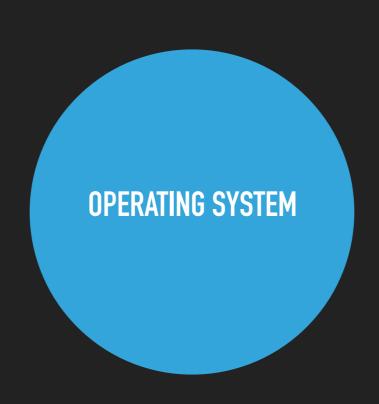
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AUTONOMOUS APPLICATIONS

WHAT IS AUTONOMOUS APPLICATION DELIVERY?

- Your OS provides a set of features
 - Libraries, System Calls, Packages, etc.
- Your (business) application requires a set of features
 - Libraries, System Calls, Packages, etc.
- Decouple your application from the OS for more flexibility







LIB C

USERLAND UTILITIES

LIB C

PACKAGES

USERLAND UTILITIES

LIB C

YOUR APPLICATION

PACKAGES

USERLAND UTILITIES

LIB C







LIB C

USERLAND UTILITIES

LIB C

SYSTEM PACKAGES

APPLICATION DEPENDENCIES

USERLAND UTILITIES

LIB C

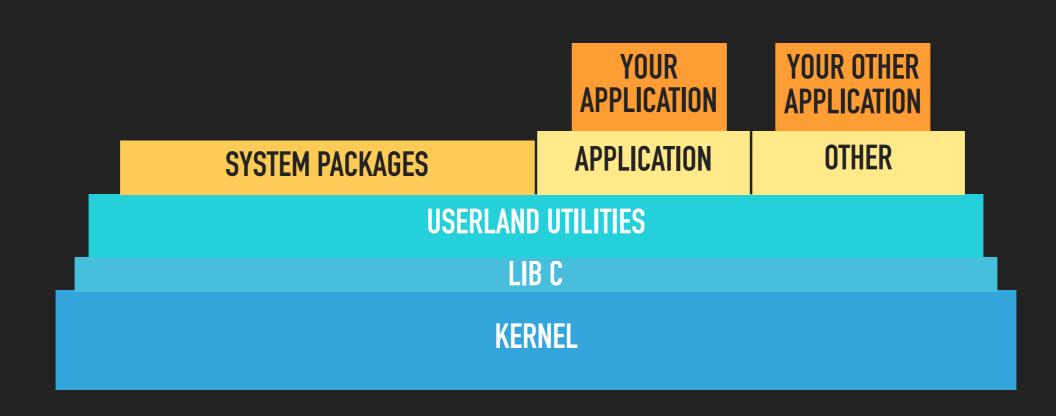
YOUR APPLICATION

SYSTEM PACKAGES

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LIB C



ALTERNATIVES??

RUN-TIME MANAGERS

- RVM (Ruby Version Manager)
- VirtualEnv

OS ISOLATION

- Chroot
- Containers/Jails/Zones