pkgsrc
packaging and porting at joyent
opensolaris @ joyent

- launched september 2006
- 100000+ zones
- < 2% customers have used opensolaris
- nevada + joyent pkgsrc
core premise

• *package distribution is not the challenge*
• building / porting more applications
• pushing changes upstream
• `pkgsrc` is focused on helping porters
pkgsrc stats

- 11,000+ ports
- ~500 maintainers, 80 core developers
- solaris support for 10+ years
- a tradition of porting bad code!
demo by
filip hajny
pkgsrc "stages"

- fetch
- extract
- patch
- wrapper
- configure
- build
- install
- package
- clean
Makefiles!
pkgin vs. pkg_*

• Similar to apt-get vs. dpkg
• Allows for more efficient repo operations
• Simpler / reliable operations on pkg sets
joyent involvement

• ‘git clone’ repo during quarterly freeze
• keep an external ‘vendor’ tree
• ~1000 packages in joyent repo
• Pre-install ~200 “core” packages
feedback loop

• started with our own ports
• submitted patches to maintainers
• package submissions to WIP
• submissions to mainline
zfs deployment

- versioned “master” datasets
- zfs send across machines
- shared read-only across zones on-box
next steps

• better integrated SMF support
• multi-architecture (64/32)
• IPS package generation
more!

• http://discuss.joyent.com
• http://www.joyent.com/pkgsrc