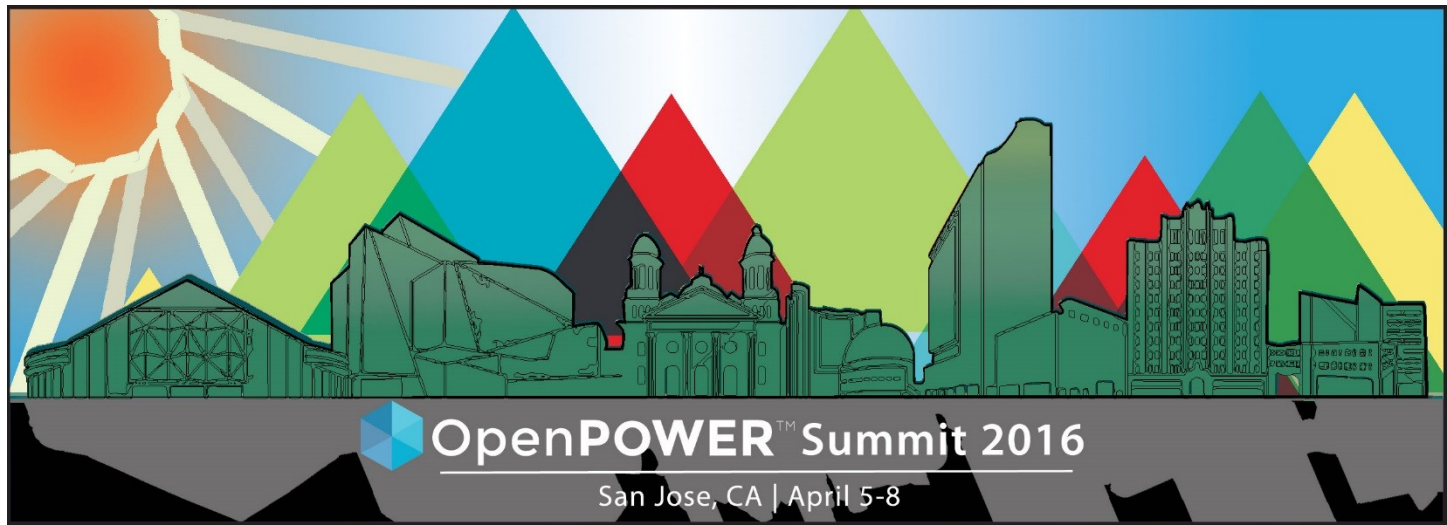




HostOS Repository Project

Ralph Christ – Program Director LTC

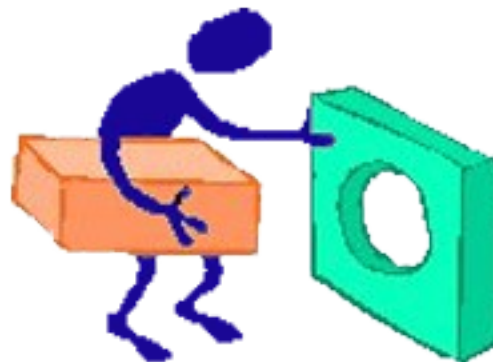
Revolutionizing the Datacenter



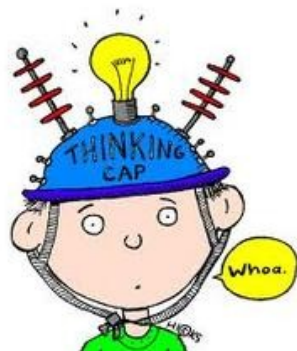
Join the Conversation #OpenPOWERSummit

Requirements

- Capable of running on latest OpenPower servers and IO when available
- Run Bare metal and Virtualized/KVM
- Partner built HW & SW stack top-bottom
- Run on stable Linux distribution
 - Many building own private Distro
 - Several are a derivative of CentOS
- Want distribution to be Little Endian(LE)



Solution (to address most requirements)



NEED FOR SPEED **SHIFT**

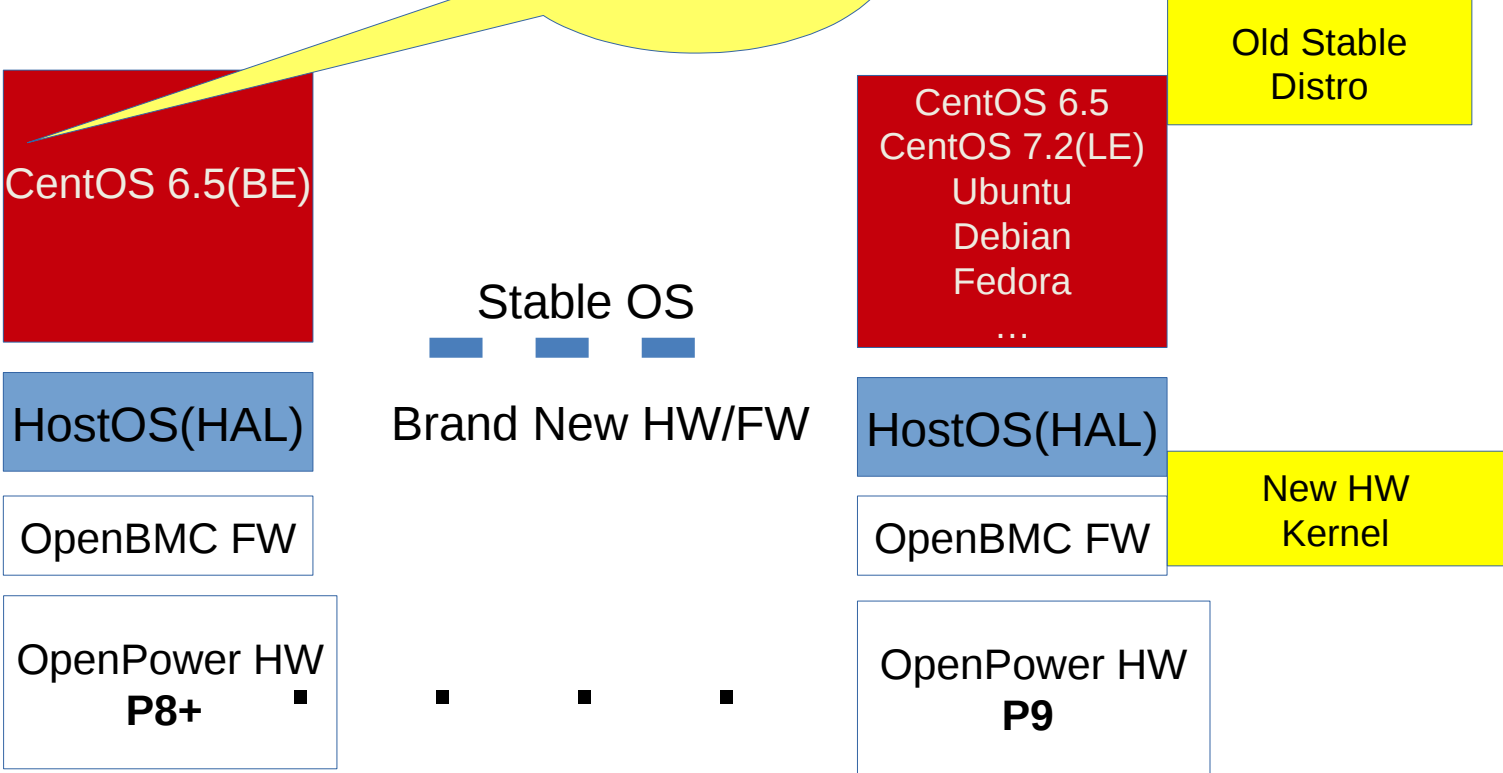
- OpenPower HostOS/KVM repository
 - Aids partners building own Linux Distribution quicker
 - Speeds time to market with OpenPower features
 - New collaboration model on features
 - Helps ensure implementation consistency
 - Virtualization acts as an Abstraction Layer, that allows for faster deployment

HostOS as Abstraction Layer

Bare Metal use case,
could also virtualize

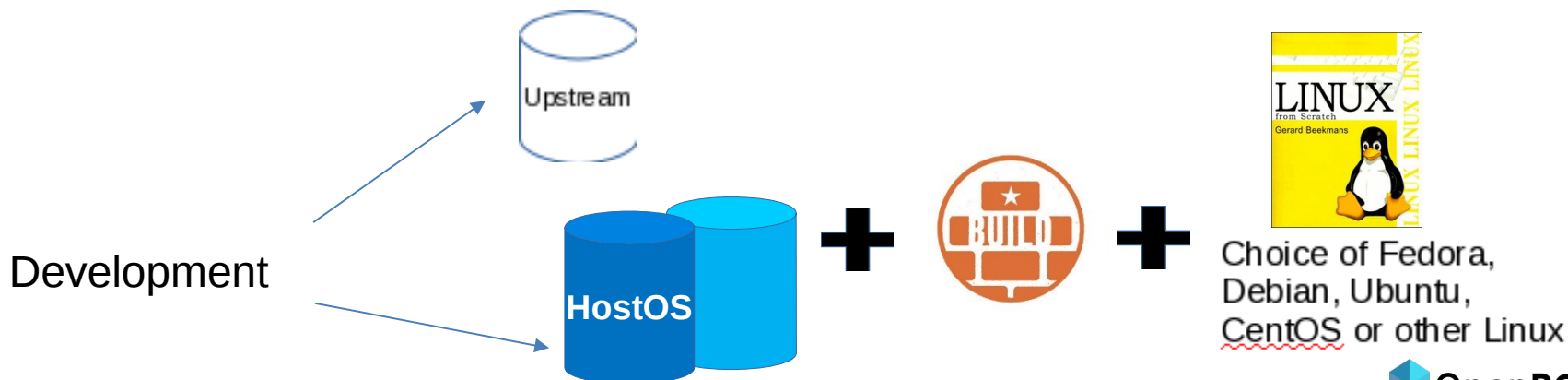
Create 1 Guest
Using ALL resources

HostOS as
Abstraction Layer

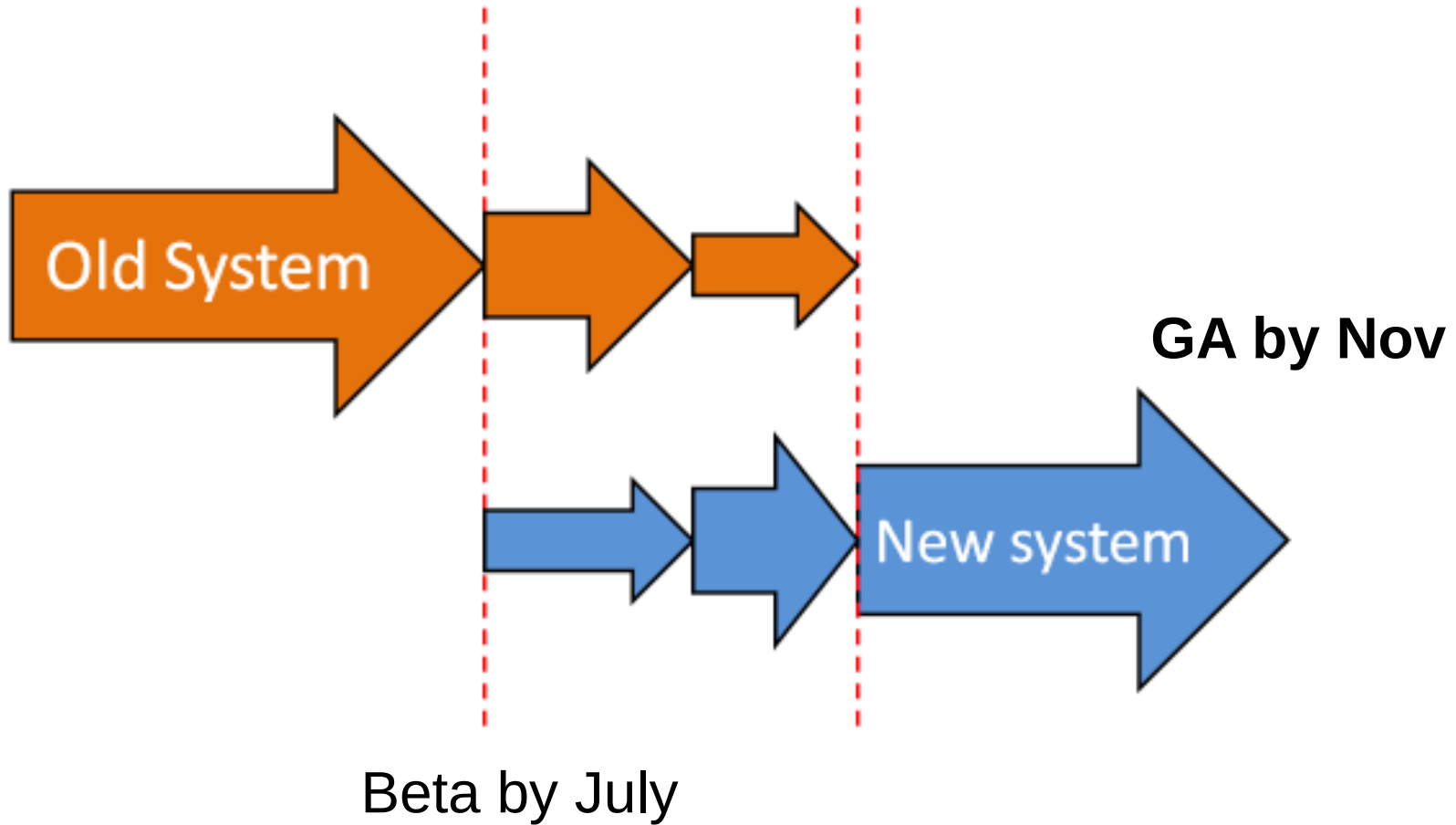


Implementation

- IBM will seed repositories, from IBM's work on KVM on POWER
 - Source code for Kernel, Qemu, Libvirt, etc.
 - Build scripts (CentOS, Debian, etc.)
 - Validation test suite
- IBM will leverage same code for its own products
- Normal opens source guidelines
 - All source "as is"
 - Maintainers for each repository



2016 Time line



Summary

- New OpenPower Repository
 - Speeds time to market of new features
 - New collaboration model
 - Helps ensure implementation consistency
 - Great for sharing and leveraging ideas
- Provide HostOS as Abstraction Layer
 - Speeds adoption of new HW Servers and IO with stable

