Maturity
OpenStack’s Hypervisor of Choice

OpenStack user survey result

- KVM: 71%
- Other: 29%

Other hypervisors:
- ESX: 8%
- Xen: 8%
- Xenserver: 5%
- Lxc: 5%
- Hyperv: 3%
Performance

**SPECvirt_sc2013 624.9@37 VMs tested by IBM**
- #1 two socket result
- Beats closest competitor by 32% on the same CPU

**SPECvirt_sc2010 12473@768 VMs tested by Bull**
- #1 overall highest SPECvirt_sc2010 score by a large amount
What’s New
In X86 Land

- APIC Virtualization and Virtual Interrupts
- NUMA scheduling improvements
- VDSO pvclock
- pvticketlock
- Shadow paging scalability improvements
- Nested VMX improvements
  - VMCS Shadowing
  - Nested EPT
Architectures

- ARM 32 & 64 are merged
- MIPS trap and emulate is merged
- MIPS-VZ is being worked on
- Tile PV is being worked on
Challenges

- Scalability
- Nested Virtualization
- Stability
- Security
The end.

Thanks for listening.