Mirantis Unlocks OpenStack

We empower our customers to win in the software defined economy

1

Singular Focus:
Best Product
OpenStack is all we do at Mirantis! For us, OpenStack is not a vehicle to sell other products.

3

Source of the source code:
Best Support
Providing thought leadership by starting key projects - Fuel, Murano, Sahara, Rally, Sahara. Top 3 contributor.

100

Vendor Agnostic:
Best Solution
We enable solutions with best-in-breed hardware, cloud management, PaaS, container, big data vendors

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<td><em>Not all servers are equal</em></td>
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<td>● SRIOV, direct attached flash/NVDIMM, GPGPU…</td>
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<td>● Physical location impacts application performance and resiliency</td>
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<td><em>Late Binding of Infrastructure</em></td>
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<td>● IaaS driven by application workflow</td>
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<td>● Applications constantly changing via CI/CD pipelines</td>
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<td>● Autoscaling and automatic fault recovery</td>
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# OpenStack Network Trends

## Hybrid SDN’s
*More than just overlay*
- Programmable vSwitch model extended to physical switches
- Service chaining for physical and virtual network functions
- Single provisioning and monitoring solution

## Additional Workloads
*Not just “cloud native” apps*
- Enterprise Applications (QoS, data inspection and isolation)
- Carrier Grade Functionality
- Big Data/Analytics, IoT

## Intelligent Switches
*User application support*
- Not all workloads use distributed vSwitches
- Flexible placement of VNF’s and HW accelerators
- Enhanced remote management

## Application Driven
*Group Based Policy*
- SW is a collection of services which independently evolve
- Applications define intent which is abstracted from infrastructure
- Cloud and business policies must be applied to all applications
## OpenStack Storage Trends

| **Multiple Storage Types** | Block, Object, File, and Key Value  
More than just block storage  
Combination of appliances and SDS  
Multiple transport fabrics (FC, IP, NVMe) |
|---------------------------|---------------------------------------------------------------------------------|
| **Additional Workloads**  | Write intensive database workloads  
Not just “cloud native” apps  
Direct attached storage use cases  
Enterprise workloads (QoS, encryption) |
| **Solution Differentiation** | Multiple price/performance points  
Heterogeneous Solutions  
QoS, latency, bandwidth, resiliency tradeoffs  
Compute in Storage possibilities |
| **Application Driven**    | Applications request QoS, replication, bandwidth, ACL  
Storage Policy Driven  
Global cloud and business policies applied  
Shift away from preallocated storage pools |
Summary

- OpenStack is now targeting all workloads including bare metal and containers
- IaaS has been extended to control physical devices and not just virtual infrastructure
- Shift to heterogeneous multi-vendor environments
- Applications are driving infrastructure configurations