Oracle Cloud Solutions

Oracle®
The Enterprise Cloud for
Business-Critical Applications

Private Cloud

Public Cloud

Hybrid Cloud

- Management
- Security
- Integration

Interconnected by Mellanox InfiniBand Solutions
“What we are offering is our OS, our VM, our Compute and Storage services running over Exadata, Exalogic, SuperCluster all connected together with the most modern network, InfiniBand.”
“Interconnected with the world’s fastest network – InfiniBand.”
Oracle Cloud Infrastructure

- Unmatched performance, simplified deployment, ease of use
- Lower total cost of ownership and cost per user
- Mellanox InfiniBand Interconnect
Oracle Cloud Key Ingredients

- **Exadata (Database in-memory machine)**
  - 4X larger flash memory
  - 33% more data throughput
  - 10% to 40% lower power

- **Exalogic (Oracle Elastic Cloud)**
  - Application performance up to 10X (vs. 10GbE)
  - All I/O over one InfiniBand wire
  - SLA oriented cloud infrastructure
  - Best support for elastic capacity on demand

- **ZFS (Storage over InfiniBand)**
  - 4X to 15X higher performance vs. Fiber-Channel
  - Cuts critical application backup windows in half
  - 20TB/hour backup, 9.4TB/hour restore

Mellanox Solutions are the Competitive Advantage!
Oracle Cloud Ease of Use

- Complete Cloud Solution
  - Manages all phases of cloud lifecycle

- Unified Automated management
  - Across the entire cloud stack
  - Across all cloud services

- Business-Driven Clouds
  - Application-aware clouds
  - Automatically adapt to business services and activities

InfiniBand Enables Simplified Cloud Management
Comprehensive Cloud Management

- Integrated view
  - Hardware and software components

- Hardware Management
  - Compute
  - InfiniBand Interconnect
  - Storage

- Advance system view
  - Performance, availability, resource usage by databases, applications

Mellanox InfiniBand Solutions Managed under Oracle Cloud
Mellanox InfiniBand the Competitive Advantage of Oracle Cloud

- **Performance, Efficiency and Scalability**
  - Highest interconnect performance
  - Maximize CPU and storage efficiency and density
  - Reduces OPEX and CAPEX

- **I/O consolidation and network stack optimization**
  - Network, Storage, and Inter-processor communication
  - “One wire” – all I/O needs over InfiniBand
  - Hardware-based I/O and interconnect partitioning (Virtualization)

- **Simplified the cloud management**
  - Scalable, flat network, SDN, ease-of-use
  - Policy based fabric provisioning

Mellanox’s End-to-End Interconnect Solutions Enable Oracle Cloud Value Proposition
THANK YOU