VMware vCloud Computing

From Virtualization to the Cloud

Chong Yi

cyi@vmware.com
VMware Virtualization - The Building Blocks

- **SLA**
  - Single Server partitioning
  - Multi-Server Resource allocation
  - Dynamic load balancing for SLA

- **Disaster Recovery/Business Continuity**

- **Security**
  - Lightweight Hypervisor
  - Accreditation

- **Self Service Infrastructure**
  - Automated chargeback

- **Standards**
  - Virtual Appliances
  - JeOS-Just enough OS
  - Open Virtualization Format
virtual datacenter OS from VMware

- SLA’s based on Service Performance
  - Entire Service, not just VM
- Capacity on Demand
  - Self provisioning/healing
  - Charged based on usage
- Unified View
  - Desktops
  - Online/Offline
  - End user data protection
- Leverage existing Investment
- VMware Service Provider Program
  - No re-writing of Applications
  - Over 100 cloud operators
Challenges

- Multi-Tenancy
  - Isolation Capabilities

- Security
  - Services tied together

- Lack of Standards
  - Interoperability/Proprietary?

- Authority to Operate

- RFP, Contracts, Billing, etc…

- Which cloud model?
  - Internal Cloud
  - Hosting through another agency
  - True Cloud Operator/System Integrator

- Culture

Instructions
1. Name=eContracting
2. Only port 443 is used
3. 100 ms web response
4. Encrypt w/ 128-bit AES
5. DR RPO: 1 hour
6. Decommission in 30 Days

Application and Infrastructure VMs

Contracting App
Want to learn More

• View demos and videos of some of these features at:

  www.vmware.com/go/vdcos
  www.vmware.com/cloud
  http://www.vmware.com/technology/virtual-datacenter-os/

Thank You!