



Cloud Standards for Cloudcenters

GoGrid's take on Cloud Standards

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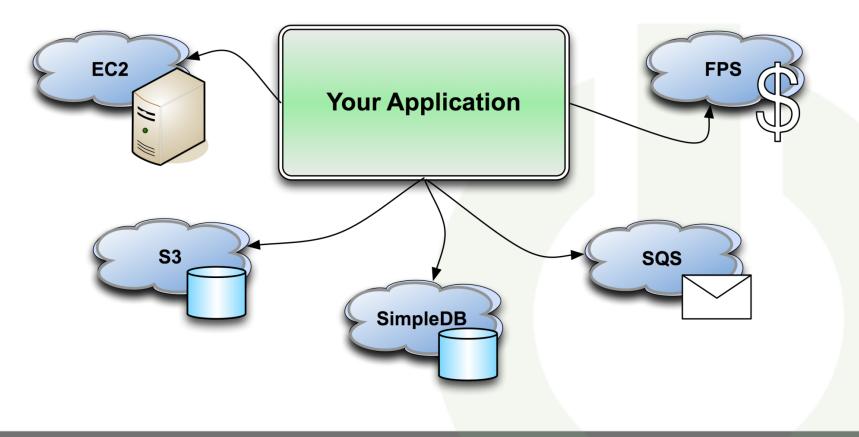
Two Faces of IaaS

- Service Infrastructures (aka "Web Services")
 - AWS is canonical example
 - Web service model
 - Pick and choose 'a la carte' web services
 - Proprietary interfaces
- Cloudcenters
 - GoGrid is canonical example
 - Very common: FlexiScale, RackSpace/Mosso, & AppNexus
 - Datacenter model 'in-the-sky'
 - Standards-based datacenter-like infrastructure





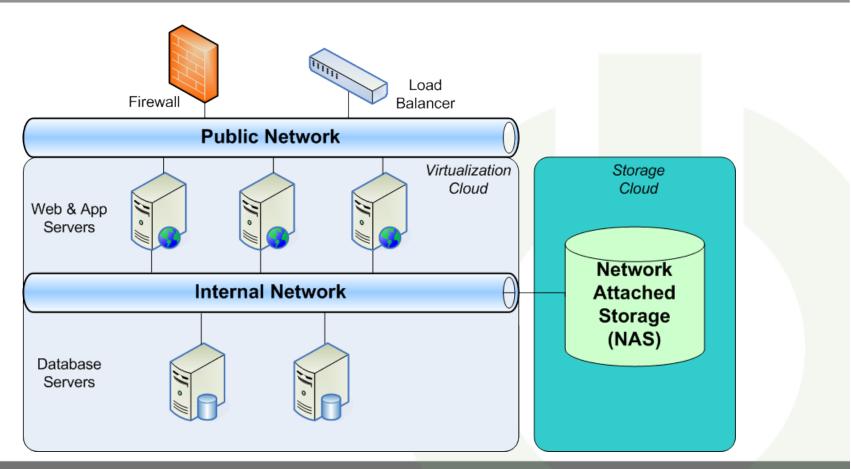
Service Infrastructures







Cloudcenters



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January 2009 - 4 -





Cloudcenter Standards

- Similar to Service Infrastructures
- Similar to Grid requirements
- But different:
 - Web application focused
 - Standard datacenter paradigms
 - Dedicated private & public network blocks
 - VLANs
 - Loadbalancers
 - Firewalls
 - Heterogenous environment





Beware of Standards

- There is not a one-size-fits-all solution
- Large number of constituencies in 'cloud':
 - SaaS, PaaS, IaaS, cloudcenters, grids, and others
- Each constituency needs to form around common needs
- Solve the smallest most urgent standards needs first





Use Cases

- Case #1: Cloudcenter OEM/VAR
 - RightScale is canonical example
 - Allow single OEM/VAR/vendor to build same solution on multiple clouds with same API interface
- Case #2: Provider Diversity
 - Multiple clouds for DR or geographic diversity
 - Same hypervisor?
- Case #3: Cloudburst / Cloudbridge
 - Self-service VPNs, hypervisor conversion (VMware <-> Xen)
 - Advanced "enterprise" features:
 - Billing, security, compliance, and user/group control