



DMTF Cloud Incubator - Overview

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Winston Bumpus, Parliamentarian
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Agenda

- DMTF Overview
- OVF
- Open Cloud Standards Incubator



DMTF

Developing Standards that Enable Interoperable IT Management

DMTF collaborates to develop IT management standards that promote multi-vendor interoperability worldwide. DMTF is at the center of the systems-management industry, developing standards that are continually improving the IT management landscape.

DMTF standards primarily serve:

- **IT Personnel** – DMTF provides increased choice, reduced cost and improved interoperability for heterogeneous IT management infrastructures.
- **IT Solutions Vendors** – DMTF standards reduce development and design costs by enabling companies to dedicate resources to growing their own business.



DMTF Board Companies

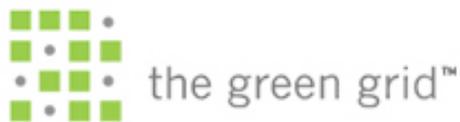


DMTF Leadership Companies

- BMC Software
- Brocade Communications
- Cisco
- Lenovo
- Rackspace
- Raritan, Inc
- Red Hat
- Savvis
- SunGard
- Standard Microsystems
- WBEM Solutions

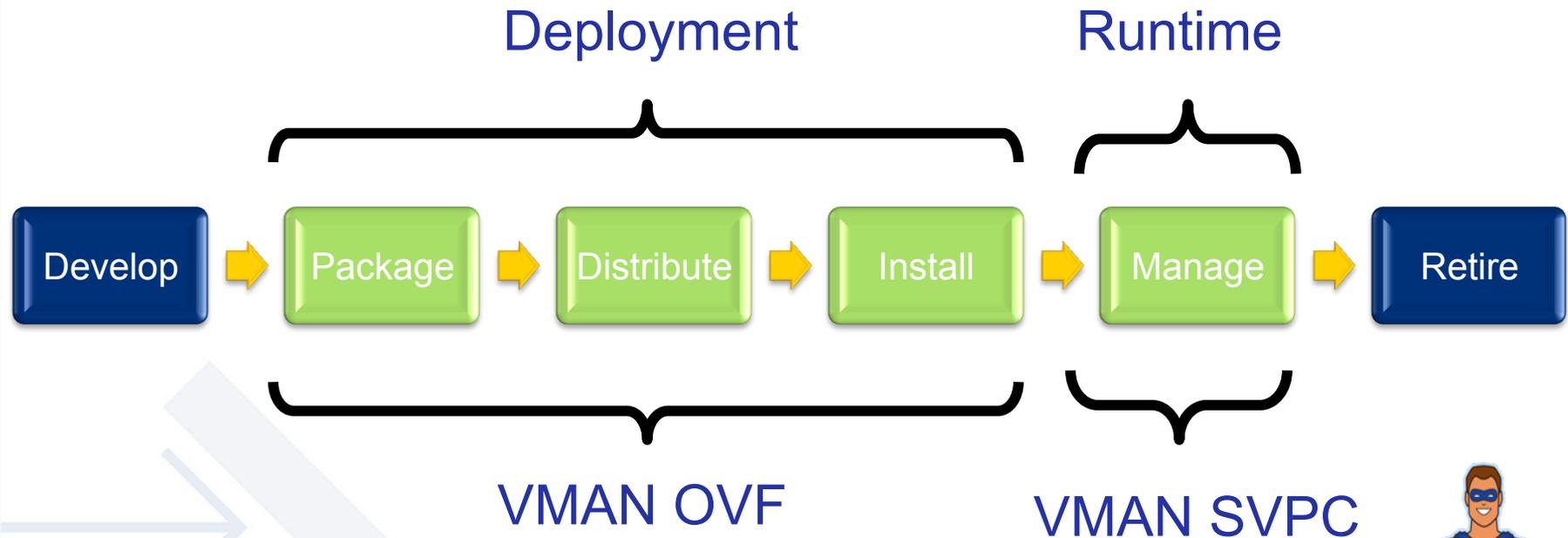


DMTF Alliance Partners



VMAN – Virtualization Management

DMTF Standards for Virtualized Management



VMAN SVPC (Server Virtualization, Partitioning and Clustering)
OVF (Open Virtualization Format)





DMTF's Open Virtualization Format (OVF)

Benefits

- Improves your user experience with streamlined installations
- Offers customers virtualization platform independence and flexibility
- Creates complex pre-configured multi-tiered services more easily
- Efficiently delivers enterprise software through portable virtual machines
- Offers platform-specific enhancements and easier adoption of advances in virtualization through extensibility

Original Submitters include the following companies



DMTF Releases OVF 1.0 Standard

- First industry standard to enable interoperability within virtualized environments
- Enables shipment of pre-configured, ready-to-deploy virtual solutions
- Accompanied by white paper to support industry education and adoption

“The goal of standards development is to enable Independent Software Vendors (ISVs) to offer improved products that manage a broader range of their customers’ preferred technology platforms. This is because standards, when designed appropriately, not only prevent ISVs from having to create multiple versions of the same product for each possible environment, but they allow vendors to focus their scarce development resources upon delivering higher value features.”

- Cameron Haight, Research Vice President, Gartner, Inc.



Cloud Incubator (Scope)

- The DMTF's Open Cloud Standards Incubator will develop a suite of DMTF informational specifications that deliver architectural semantics to unify the interoperable management of enterprise computing and cloud computing. This may include extensions to existing DMTF specifications including:
 - Common Information Model (CIM)
 - Open Virtualization Format (OVF),
 - WBEM Protocols
 - Member submissions and investigation of opportunities for collaboration with other industry standards bodies.
- The scope of this activity is focused on mainly cloud resource management aspects of Infrastructure as a Service (IaaS) with some work touching on Platform as a Service (PaaS) including SLAs, QoS, utilization, provisioning and accounting and billing.



Incubator Deliverables

- Cloud taxonomy (Terms and definitions)
- Cloud Interoperability whitepaper
- Informational specifications
 - Proposed OVF changes for cloud usage
 - Proposed Profiles for management of resources exposed by a cloud
 - Proposed changes to other DMTF standards
- Requirements for trust for cloud resource management.
- Work register(s) with appropriate alliance partners

LEADERSHIP BOARD

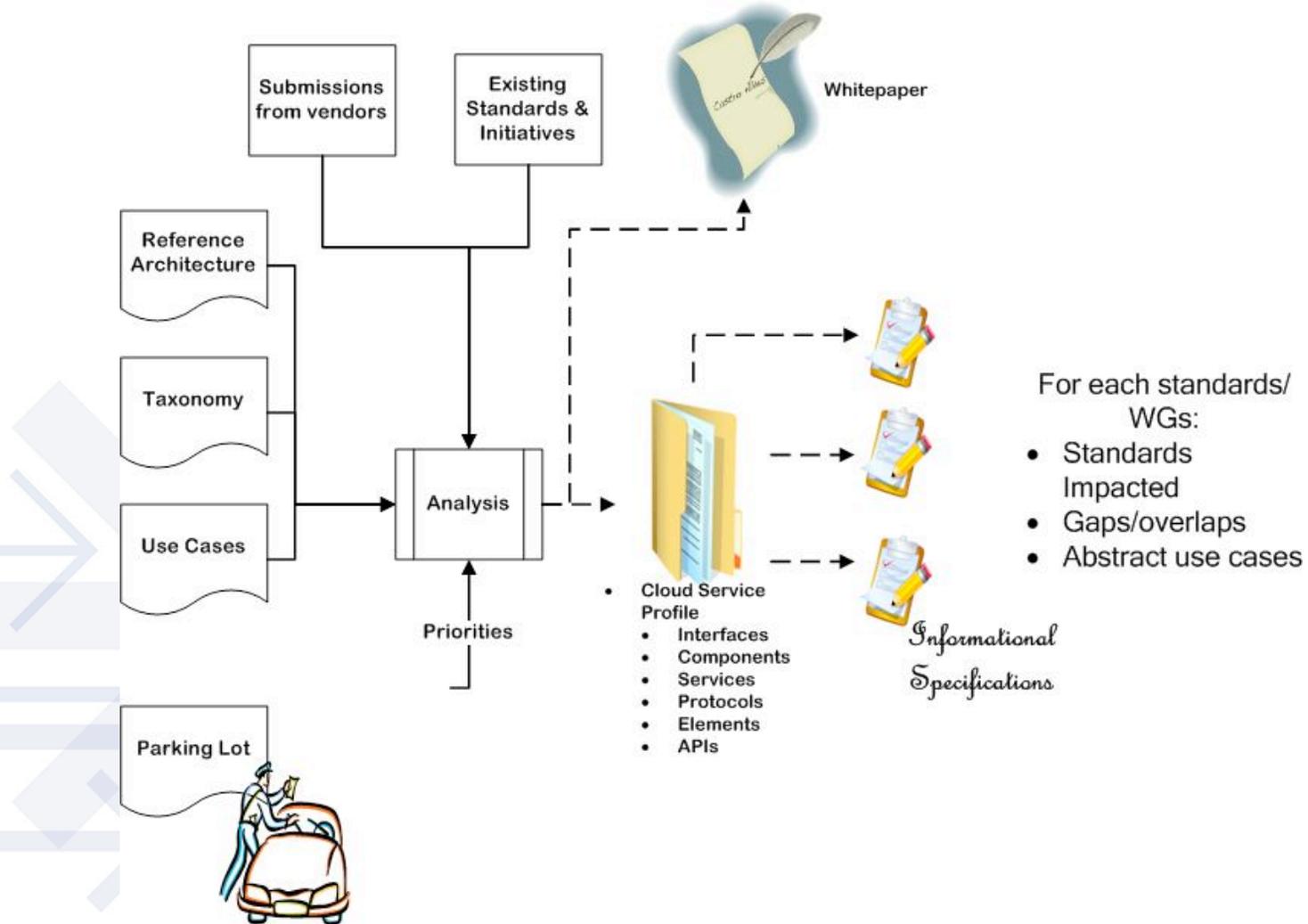
- [AMD](#)
- [CA Inc](#)
- [Cisco](#)
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- [EMC](#)
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- [IBM](#)
- [Intel](#)
- [Microsoft](#),
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- [RedHat](#),
- [Savvis](#),
- [SunGard](#),
- [Sun Microsystems](#)
- [VMware](#)

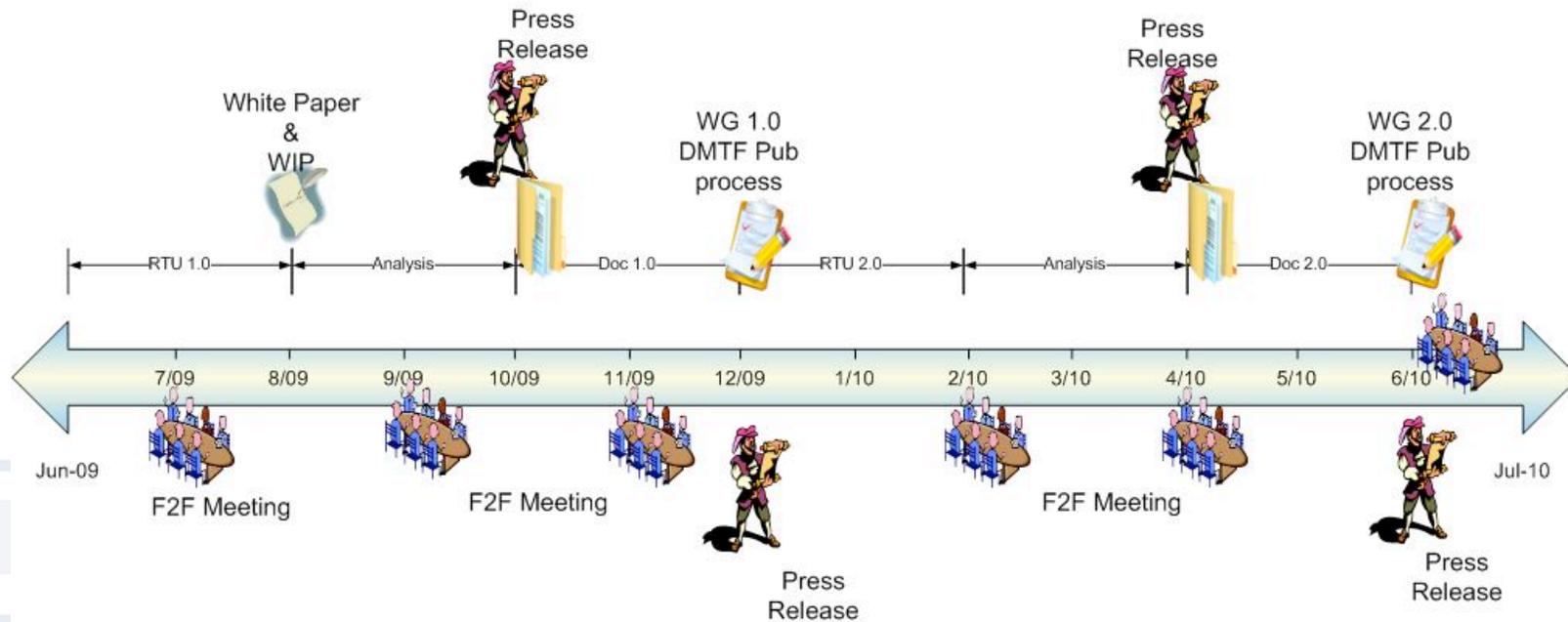


Our Plan Of Action





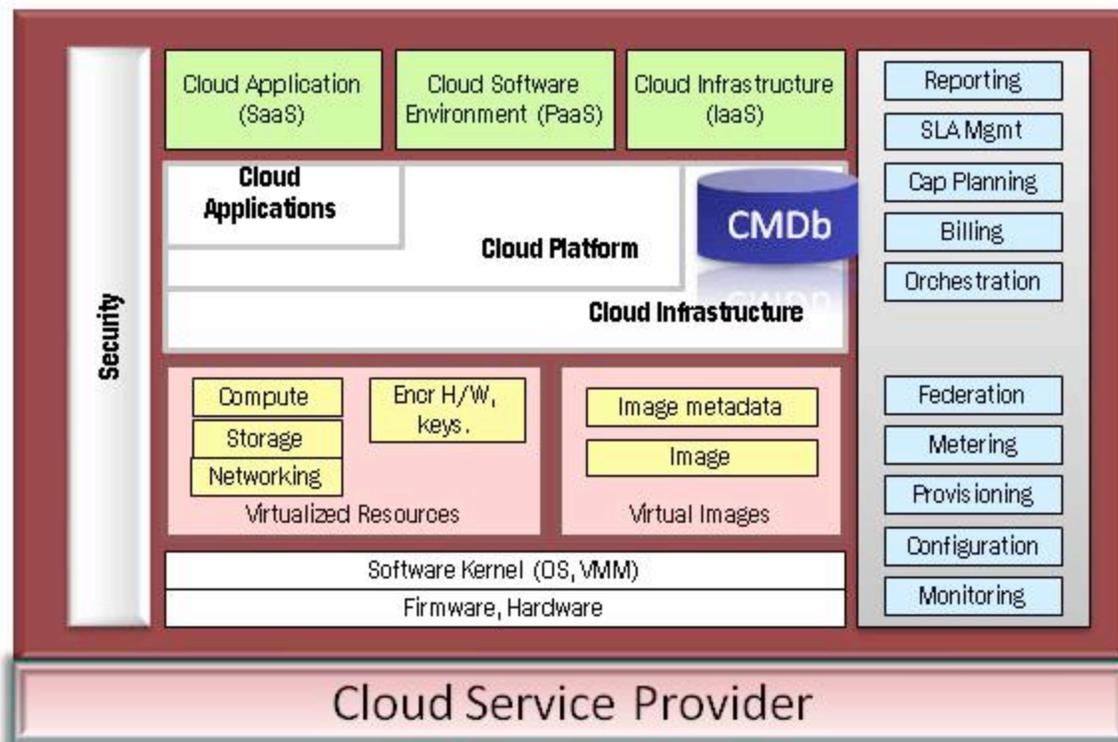
Draft Plan



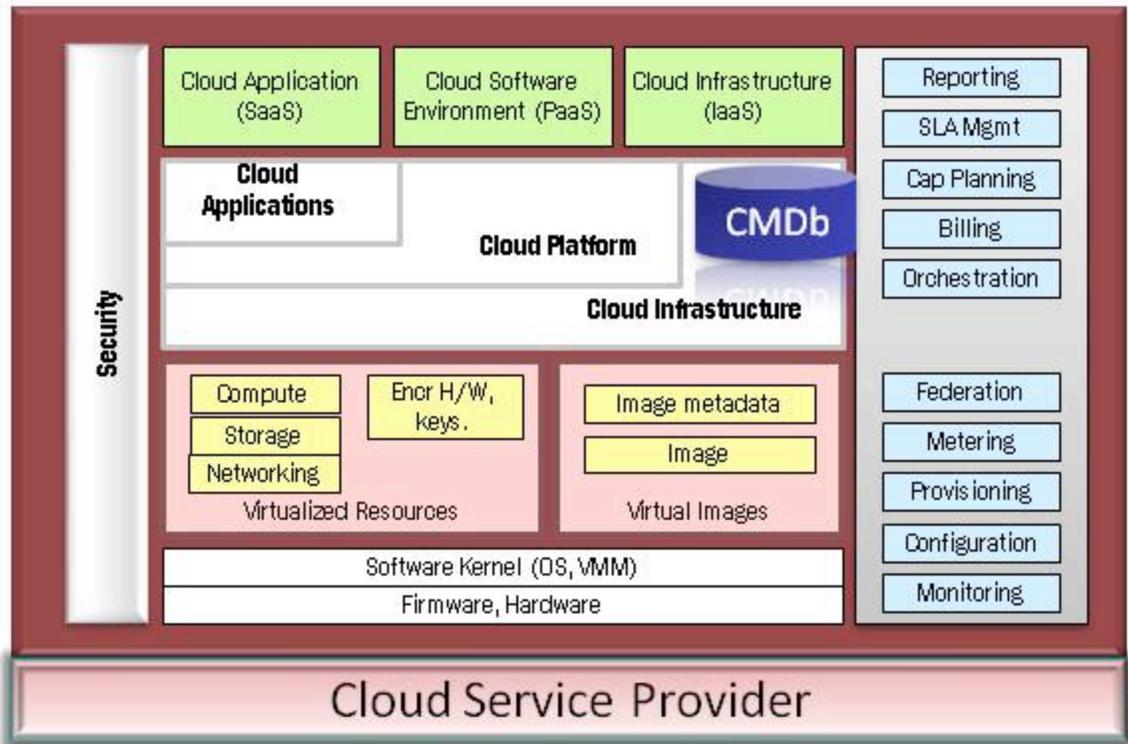


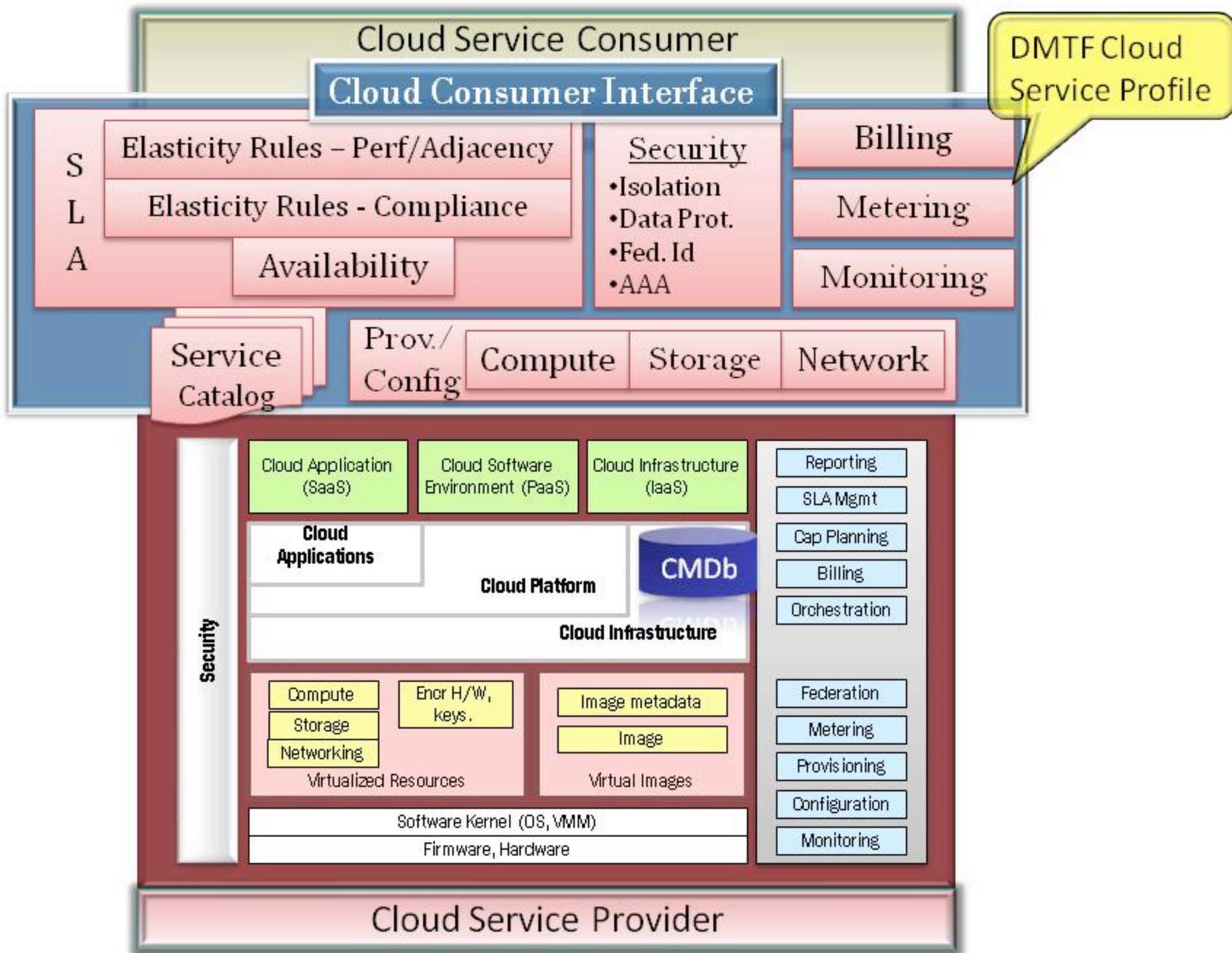
Working on

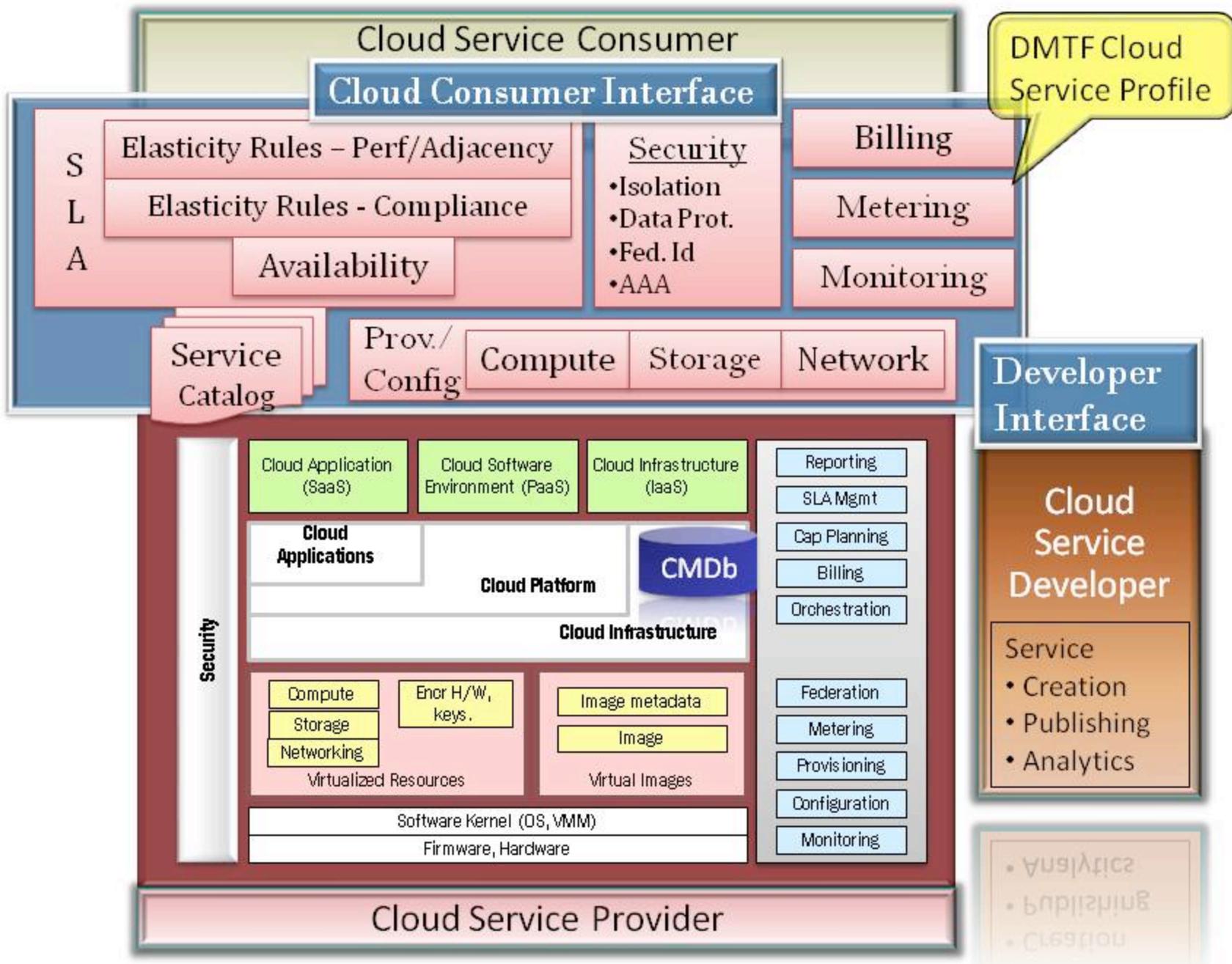
- Taxonomy
 - Reference Architecture
 - Leverage what is available from NIST, SNIA et al
 - Support the use cases
- Use cases
 - Actors
 - Cloud Service Provider (Operations mgr., Biz Mgr, Transition Mgr)
 - Cloud Service Consumer (Biz Mgr., User, Admn)
 - Cloud Service Developer
 - Sample use cases
 - Provision a service, update a service, bill for a service, add capacity, monitor svc, create svc template, monitor SLAs

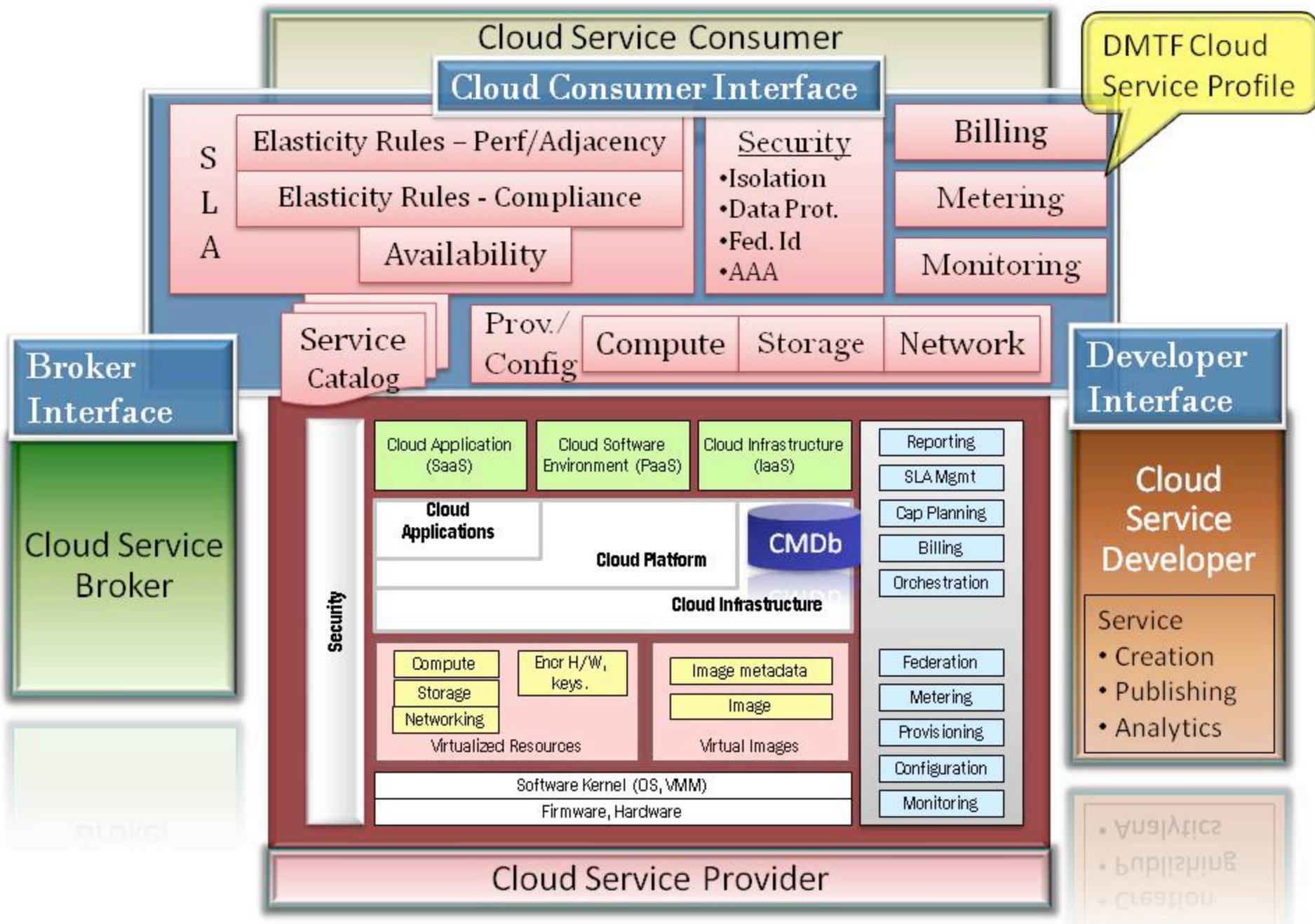


Cloud Service Consumer



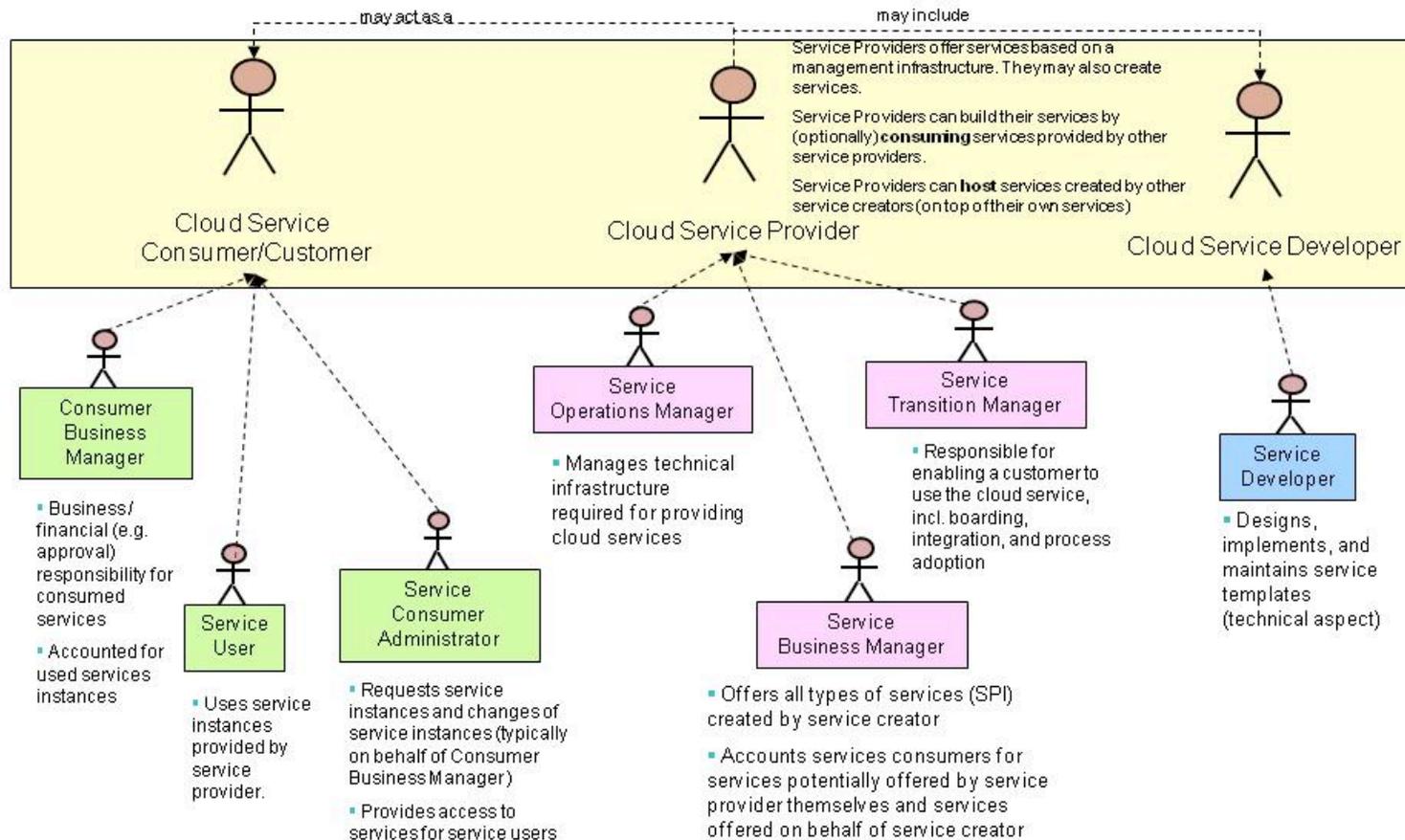








Cloud Computing: Roles – Overview

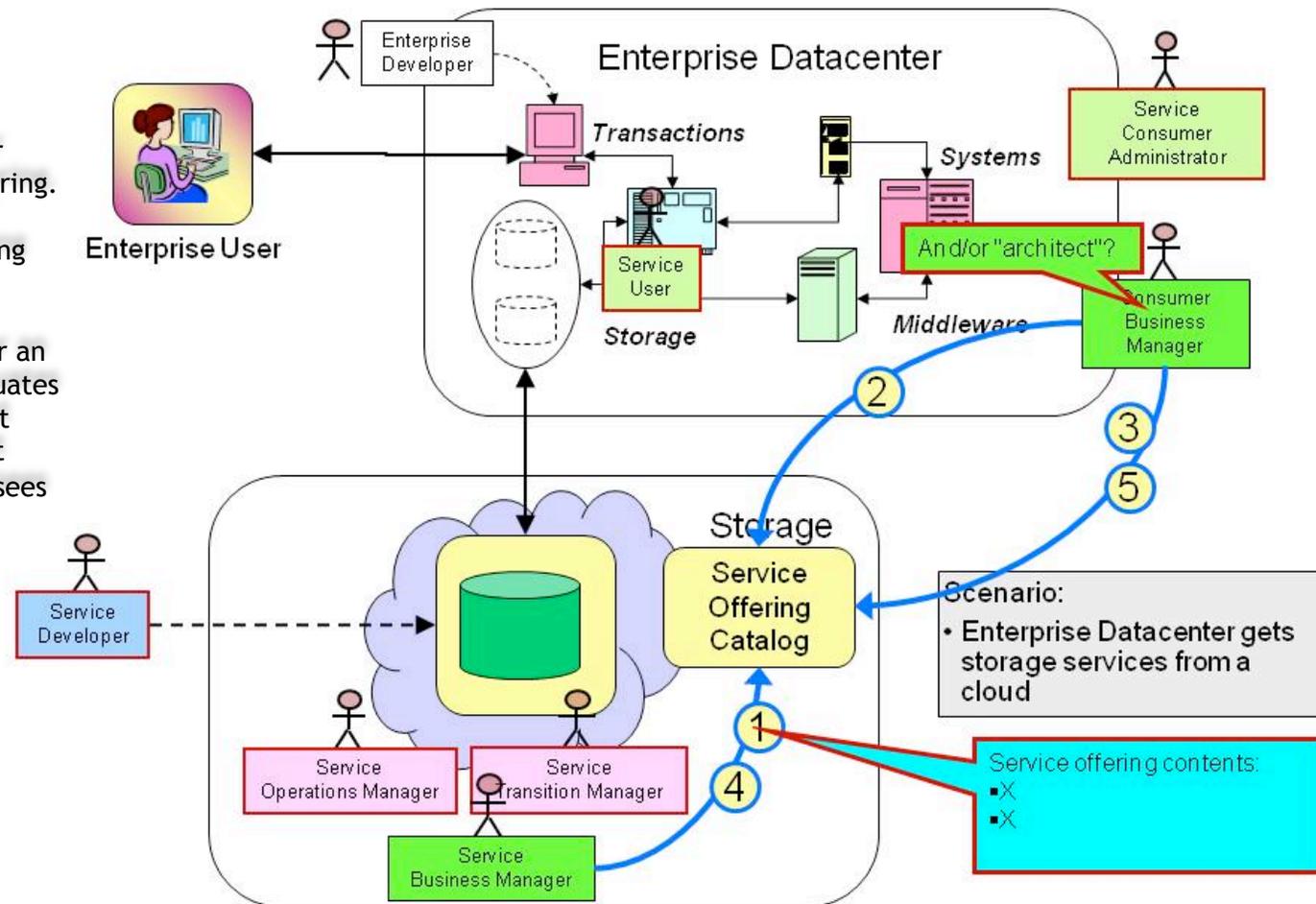


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Details: Enterprise gets services from a storage cloud

1. The cloud provider formulates a service offering.
2. Cloud service consumer evaluates provider offering.
3. Consumer Business Mgr (CBM) configures offering and requests it, and is returned a request ID
4. Service Business Mgr (or an automated proxy) evaluates and accepts the request
5. CBM checks the request status, and eventually sees that it is accepted





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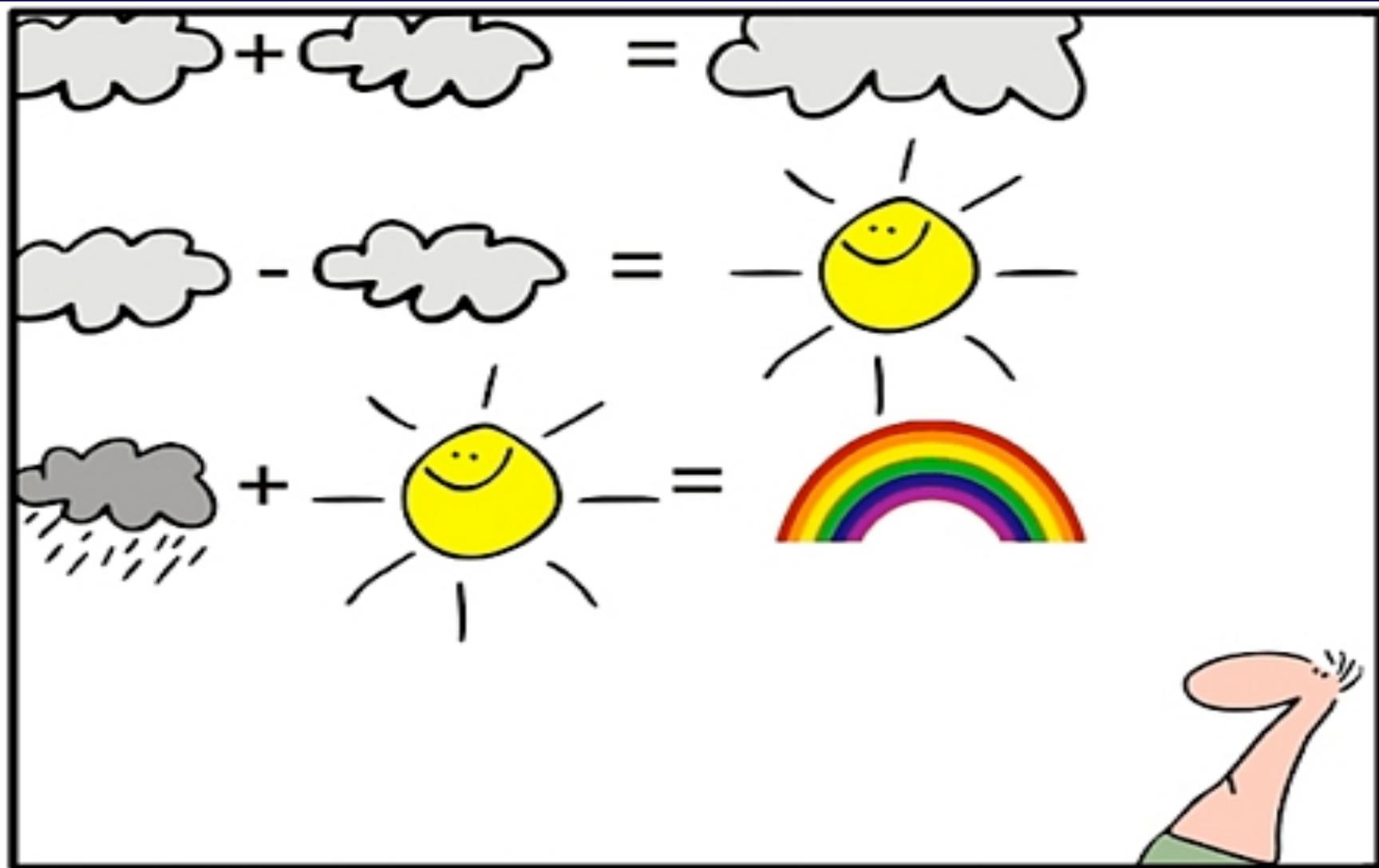


www.dmtf.org

www.dmtf.org/cloud

www.dmtf.org/vman

www.cloud-standards.org



geek and poke

***SIMPLY EXPLAINED - PART 17:
CLOUD COMPUTING***