Open Software Defined Data Center
Incubator
Charter
Dated 2013-03-29

The information provided below is subject to change and reflects the current state of the incubator charter within the DMTF.

Management Problem(s) and Environment

The Software Defined Data Center (SDDC) is an emerging area of technology that could revolutionize IT infrastructure over the next several years. New technologies such as Software Defined Networks and Storage have begun appearing on the market. While there are many management standards for physical, virtual and cloud-based systems there are currently no standard architectures or standard definitions to describe SDDC.

According to Forrester:
"At the core of the software-defined datacenter is an abstracted and pooled set of shared resources. But the secret sauce is in the automation that slices up and allocates those shared resources on-demand, without manual tinkering."

Proposed Incubator Scope

This incubator will develop use cases, reference architectures and requirements based on realworld customer requirements. Based on these inputs the incubator will develop a set of whitepapers and set of recommendations for industry standardization.

The work coming out of this incubator may result in:
1. A clear definition and scope of the SDDC concept.
2. New work items to existing chartered working groups.
3. Expanded scope to existing chartered groups
4. Creation of new working groups if needed.

It is believed that there is much prior art that must be considered and included in the final recommendations.

Out of Scope
Areas beyond those recognized explicitly in the Proposed Incubator Scope are out of scope.

Additionally, the following areas of development are explicitly recognized as out of scope:
1. Protocols
2. APIs

3. Schemas

Business Justification

Customers benefit most when unconstrained and open approaches to APIs and formats enable market choice and product interoperability. Customers should be allowed to choose the technologies that work best, in terms of value-add, efficiency, and robustness. To achieve this in the next generation of IT, it is important that we work together today to develop a common understand of this breeding ground of new architectural models and look for ways to provide customer interoperability goals through best practices and standards.

Current Work – Overview, Deliverables and Timeline

1. A set of whitepapers outlining a clear definition and scope of the SDDC concept.
   a. Use Cases
   b. Taxonomy and Terminology
   c. High-level Architecture
   d. Standards Gap Analysis

This initial set of whitepapers is targeted to be released within the next 12 months.

Supporting Companies

The following leadership or board companies are interested in the formation of a DMTF Incubator to address the problems identified in this document.
- Fujitsu – David Snelling – david.snelling@uk.fujitsu.com
- EMC – Wayne Adams – wayne.adams@emc.com
- VMware, Inc. – Winston Bumpus - wbumpus@vmware.com
- Broadcom – Hemal Shah – Hemal@broadcom.com
- Oracle – Mark Carlson – mark.carlson@oracle.com
- Huawei – Jeff Wheeler – jeff.wheeler@huawei.com

Alliance Partnerships and Liaisons
ONF, IETF, ODCA, OMG, OASIS TOSCA TC, SNIA   and others TBD

Reliance/Coordination with other WG Models
 Including:

Server Desktop Mobile Platforms Working Group (SDMP)
Network Services Management Working Group (NSM)
Cloud Management Working Group (CMWG)
Software Entitlement Working Group (SEWG)
Open Virtualization Working Group (OVFWG)
Cloud Auditing Data Federation (CADF)
System Virtualization, Partitioning and Clustering (SVPC)

Interim Chairs
Winston Bumpus, VMware, Inc. wbumpus@vmware.com

Participation Requirements
Addition of new leadership board members requires a SUPER MAJORITY (75%) of the Review Board.

Leadership Board Voting Policy
Review Board Voting will be a SUPER MAJORITY (75%) of the Review Board

Related Work

TBD