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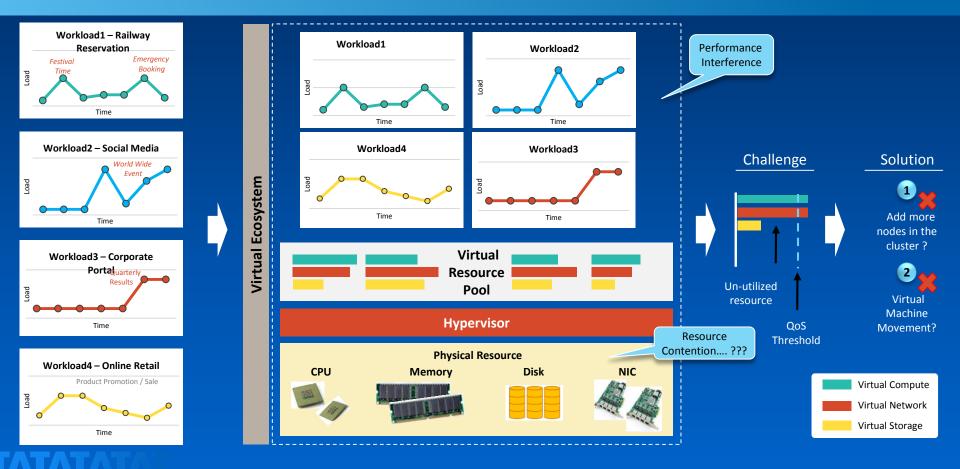
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Intelligent QoS Grid for Virtualized Workloads Gaurav Gupta Delivery Head, HiTech Industry Solution Unit Tata Consultancy Services 27 May 2016

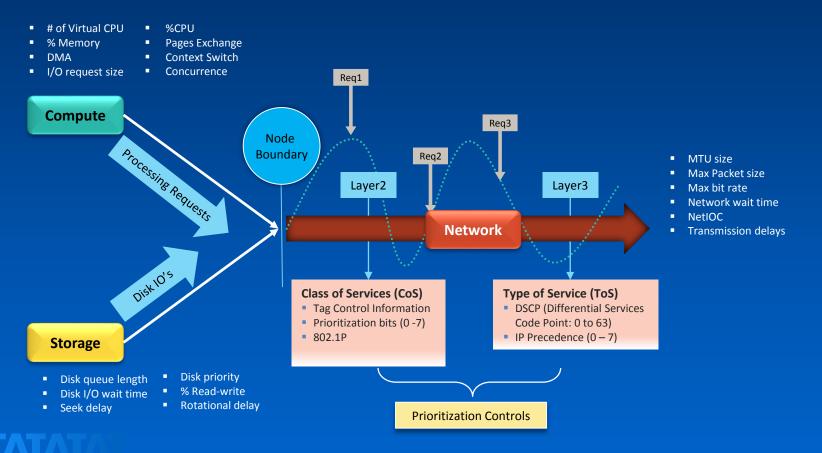
Characteristics of Data



Application Lifecycle & Challenges in Virtual Environment



Elastic Controls - Key QoS



QoS Grid – An overview

Federated

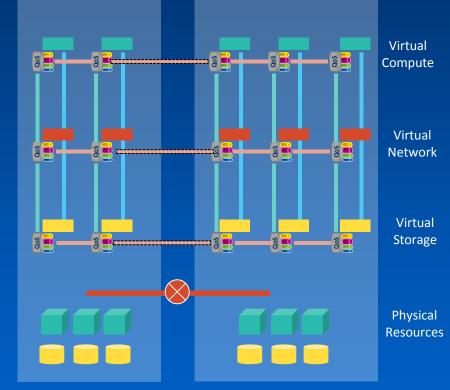
Distributed architecture
Allows grouping of virtual resources & QoSs
Scales up to cluster limit

Intelligent

Senses the change in workload behavior Dynamically leases virtual resources to others Implements bandwidth-as-a-service model

Analytic

Takes into account the historical usagePrioritizes resource allocation



Physical Node(s)

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QoS Grid - Building Blocks

Extender

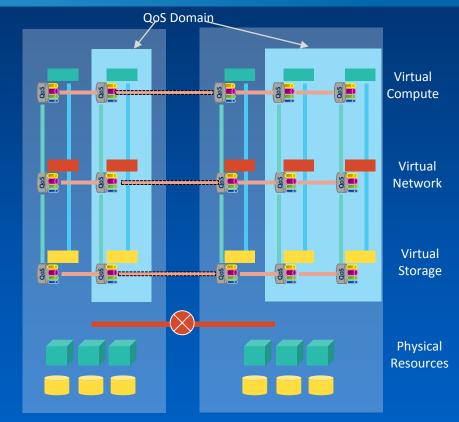
Discover all virtual stacks in the clusterAllows forming domain for sharing virtual resources

Sensor

Senses the change in workload behavior Dynamically releases virtual bandwidth to others in the domain

Regulator

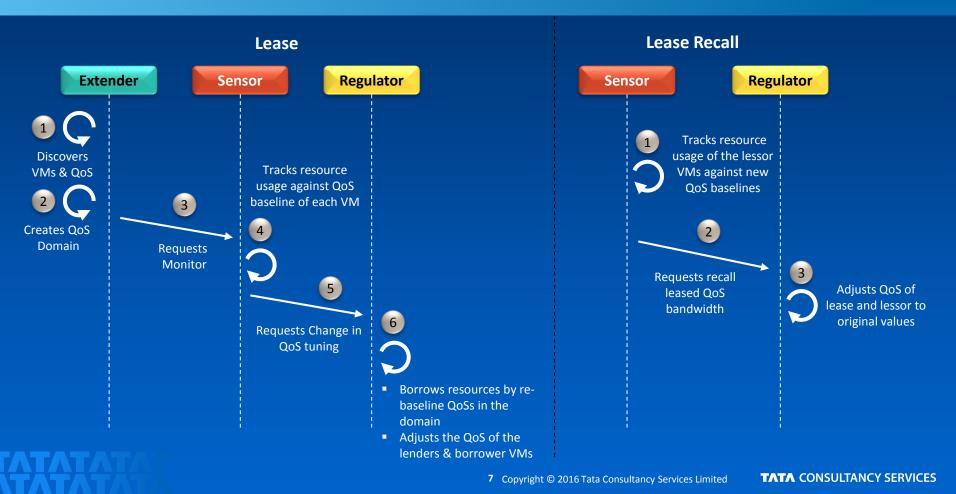
Throttles resource bandwidth across nodes based on change in requirement



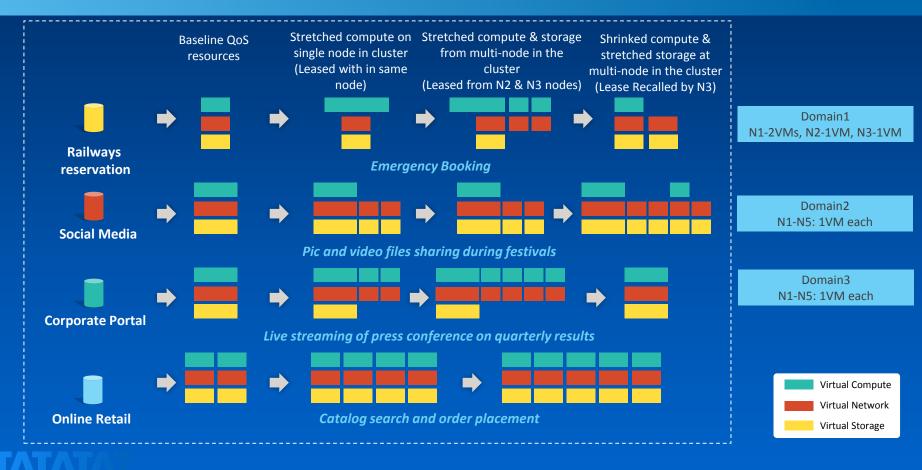
Physical Node(s)

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QoS Grid Operations



Co-existence of workloads through QoS Grid effect (Indicative)



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Experience certainty.



Q&A



Experience certainty.



Thank You

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