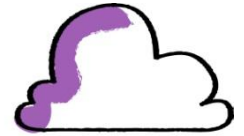




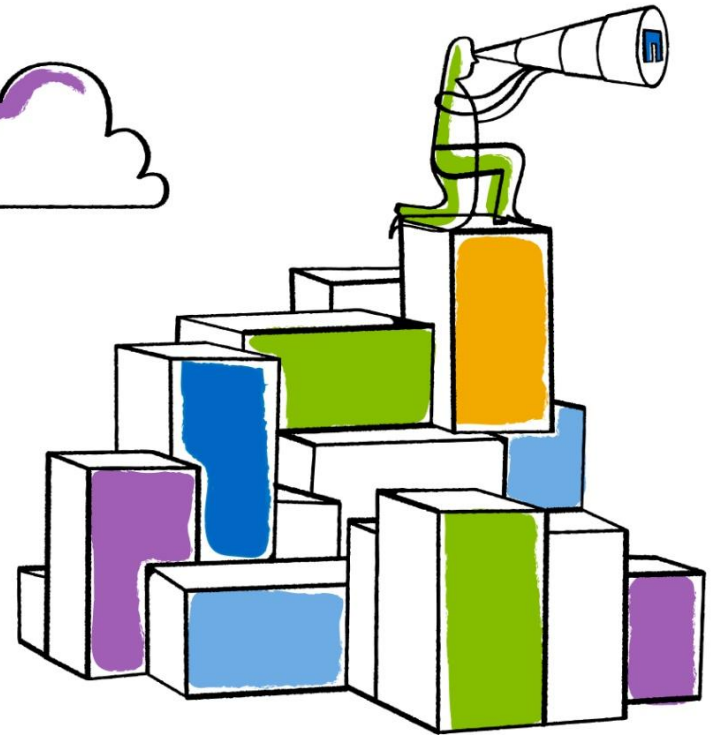
Go further, faster®



Big Data – Infrastructure as a Chance to provide agile Cloud Services



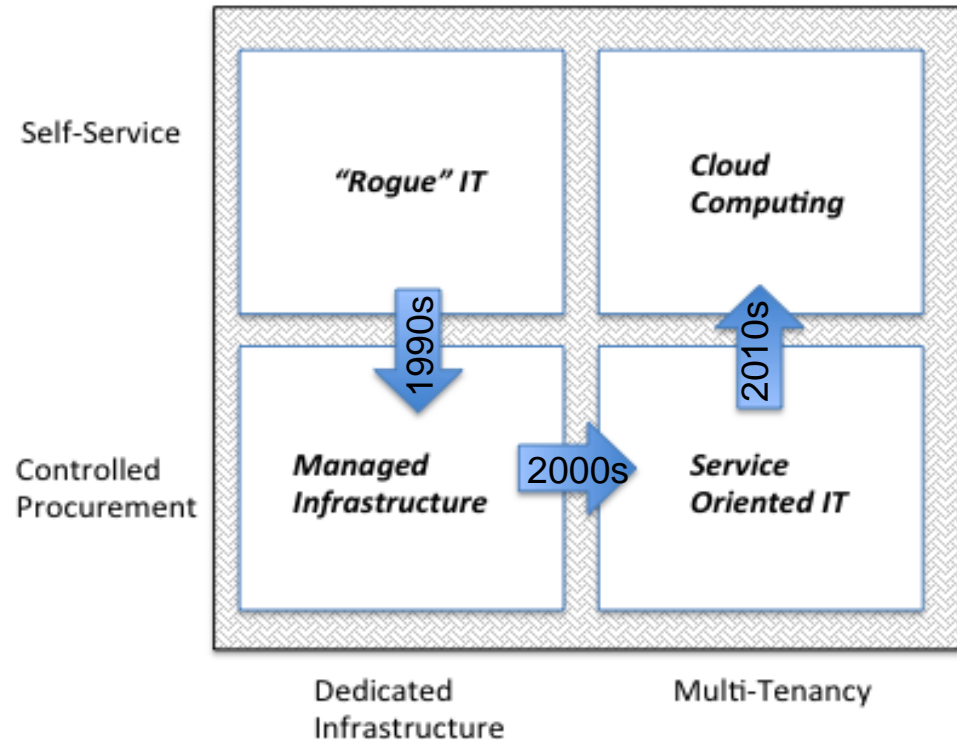
Gunther.Thiel@netapp.com





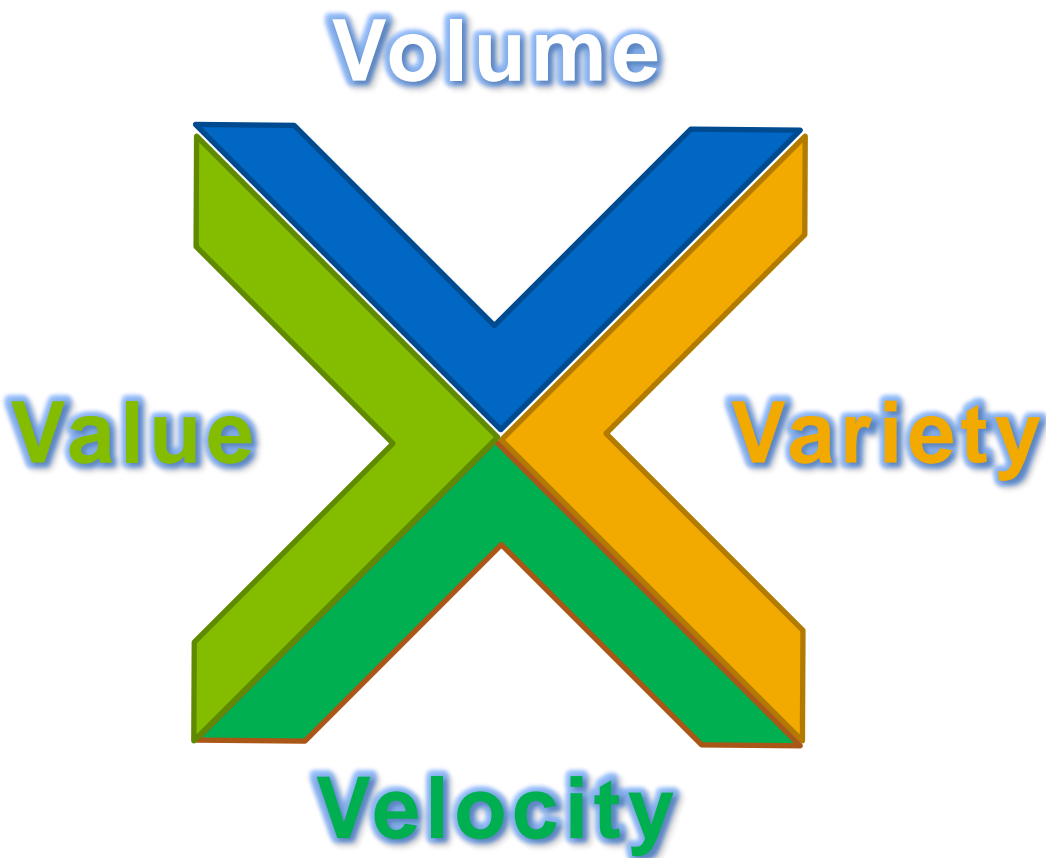
Server Virtualization and Cloud Computing are driving IT Transformation

- Global server virtualization software market to reach \$5.6 Billion by 2015
- Global cloud computing market to reach \$55 Billion by 2014 (IDC)
- According to recent IDC survey results, almost half of respondents, 44%, are considering private clouds
- In 2010, 70% of worldwide cloud system management software purchases were deployed in private cloud environments.





What is Big Data – as defined by IDC?

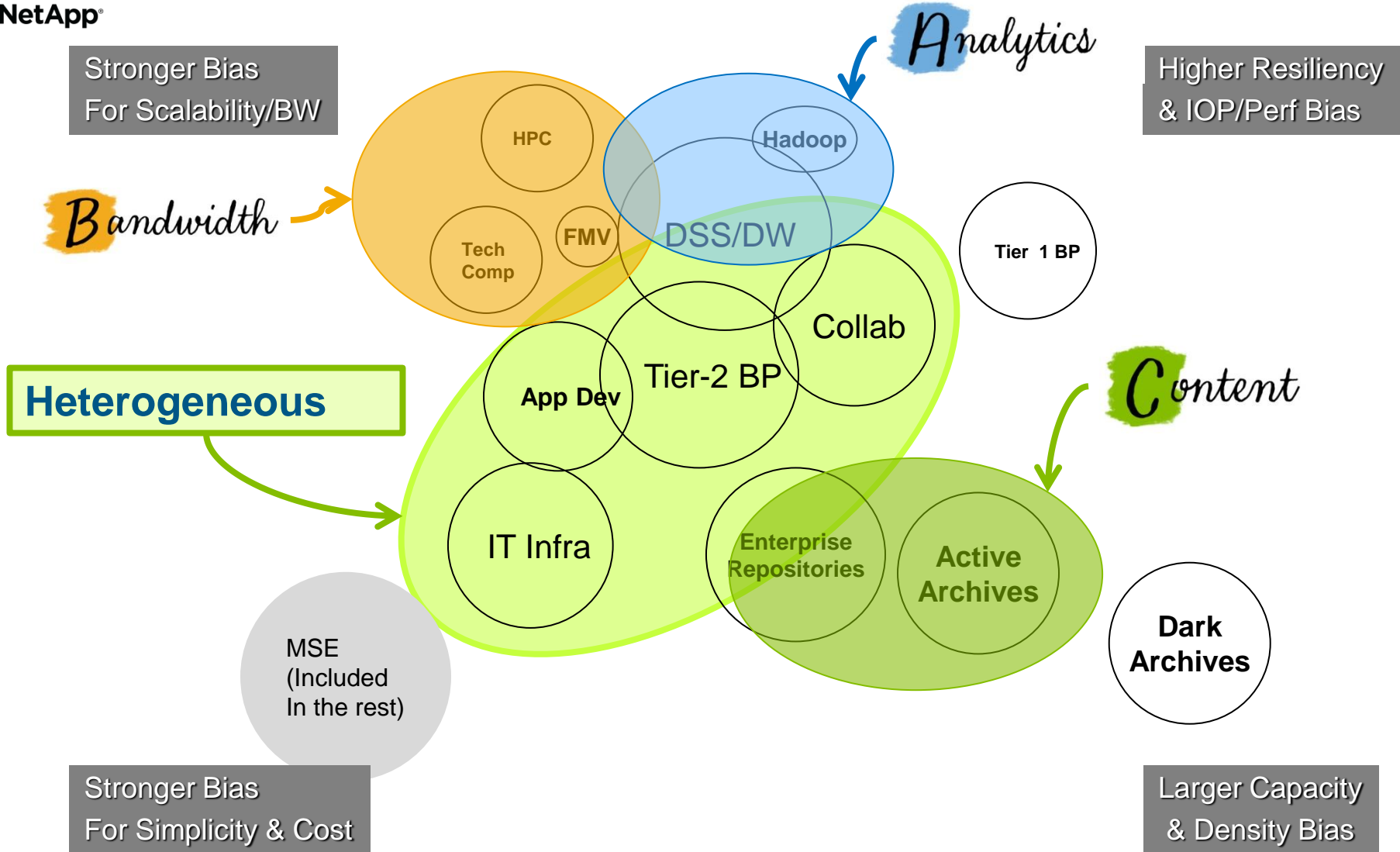


Big Data technologies describe a **new** generation of technologies and architectures, designed to **economically** extract **value** from very large **volumes** of a wide **variety** of data, by enabling high **velocity** capture, discovery and/or analysis



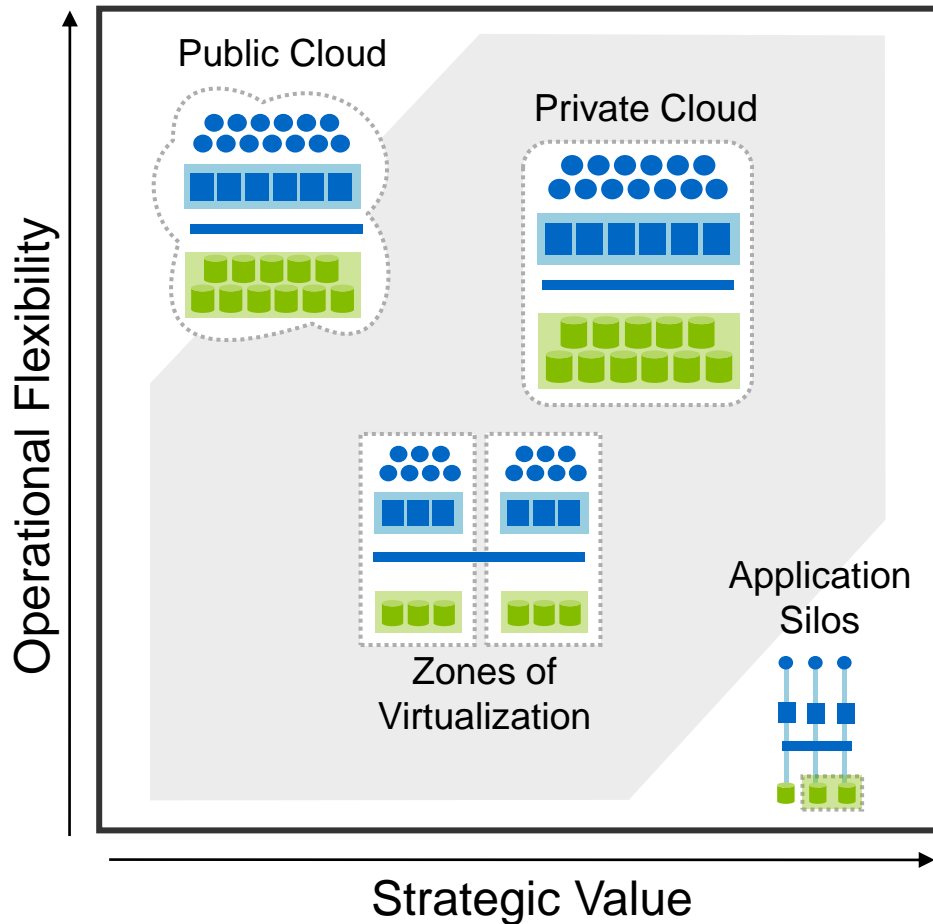
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Two Workload Categories



Your Strategy Starts With Applications

Categorize requirements based on business needs



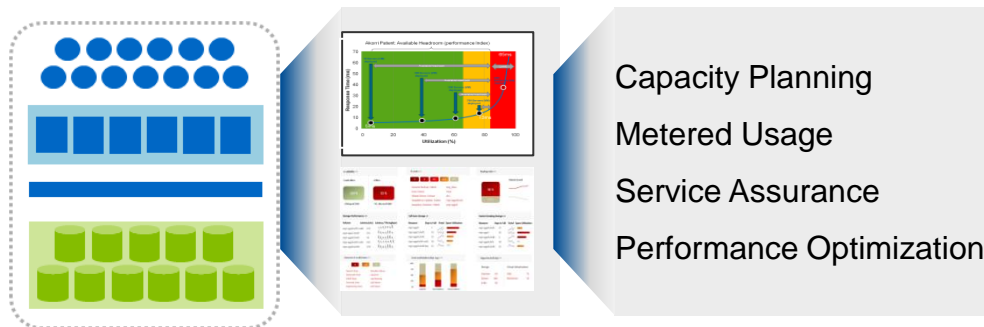
Example:

- Operational Flexibility
 - Responsive to changing business needs?
 - Adaptable to variable workloads?
- Strategic Value
 - Core to the business?
 - Key to business differentiation?

Fundamental Element: Service Analytics

Only OnCommand™ Insight provides visibility and actionable knowledge for optimizing your virtual IT infrastructure

NetApp® OnCommand Insight



OnCommand Insight provides a consolidated view of heterogeneous storage environment in terms of capacity, connectivity, configurations, and performance, enabling 24/7/365 service availability.

- Large Information Services Provider

Optimize your services

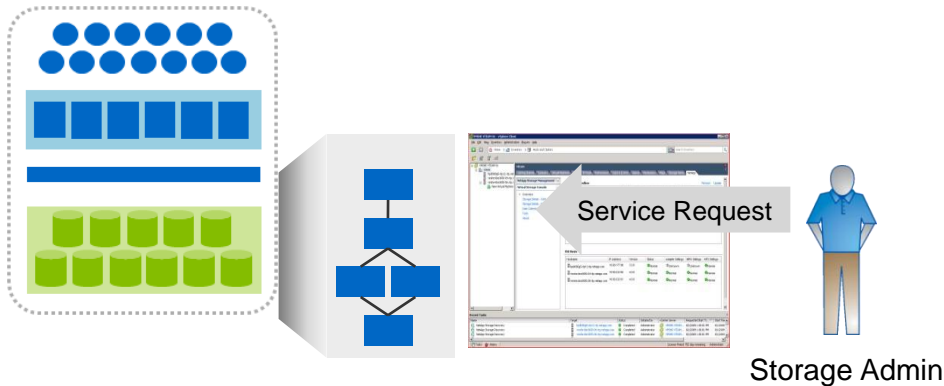
- Answer key questions to delivering business value
 - What do we have and where is it?
 - What's causing my performance problem?
 - What's the impact of change?
- Understand what services are being used by who
 - Show utilization metrics back to your users
 - Enable showback or chargeback



Fundamental Element: Automation

Only OnCommand™ allows you to move virtual machines or data within the cloud and automatically have the policy follow

NetApp® OnCommand



Accelerated resource provisioning from weeks to minutes; launched new QA system in a matter of hours.

- Leading Liability Insurer

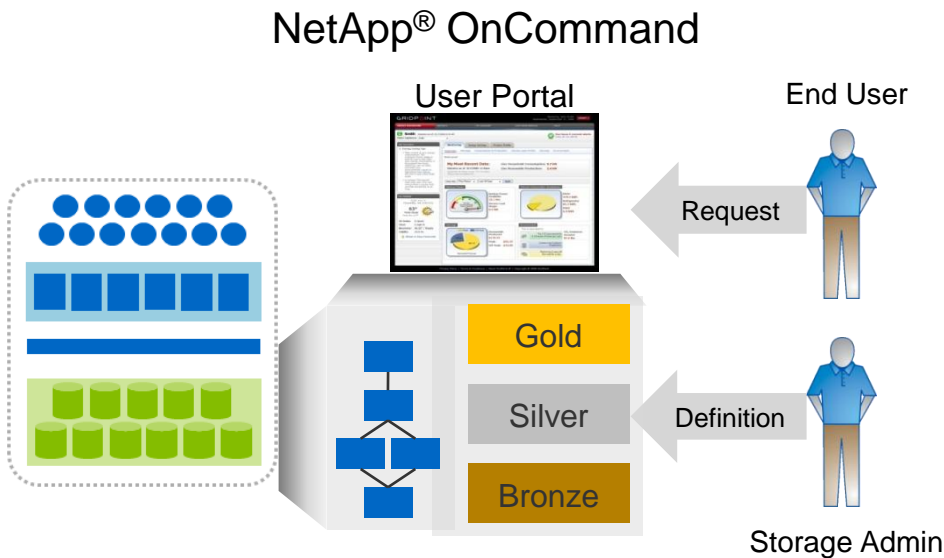
Rapidly deploy your services

- Policy-based provisioning and data protection
- Integrated with popular management platforms
- Empower admins to manage storage using familiar tools
 - VMware® vCenter™
 - Microsoft® System Center
 - Oracle®
 - SAP®
 - MS Apps (Exchange, SharePoint®, SQL Server®)



Fundamental Element: Self-Service

OnCommand™ enables simple and fast creation of self-service portals



Empower IT and your end-users

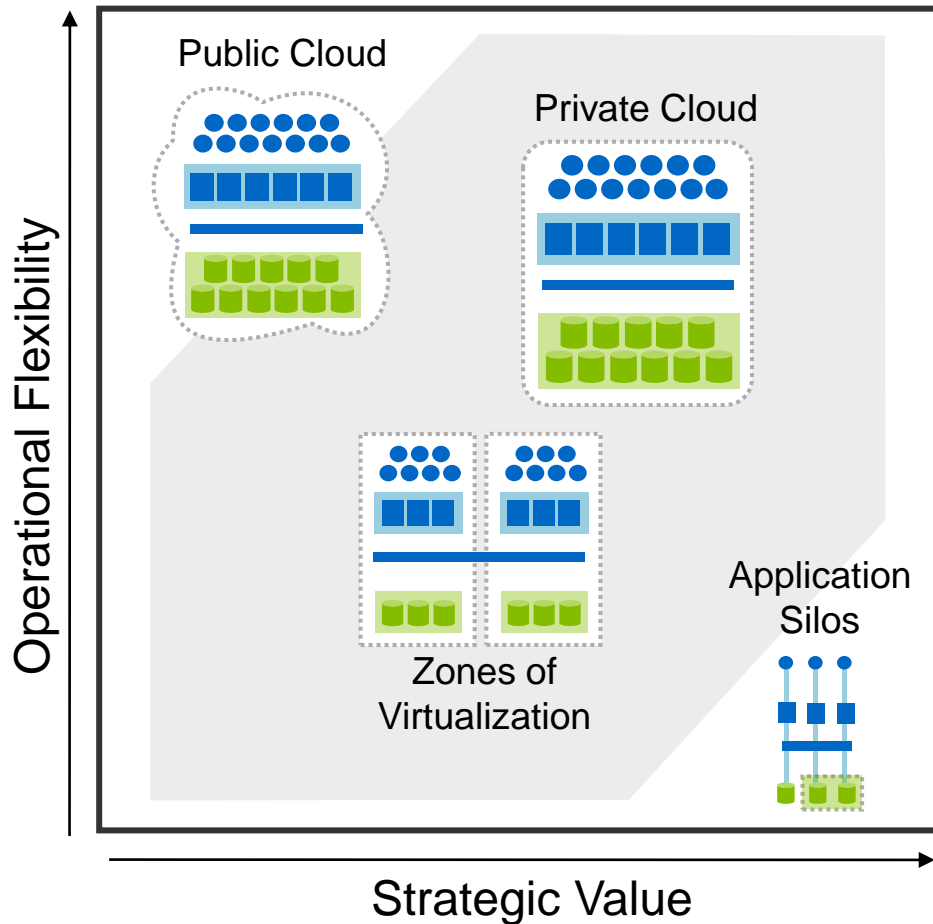
- Self-service portals allow end-users choice
- Service offerings integrated with end user workflows
- Simplifies service request processing
- IT can focus on innovation instead of end-user requests

On demand, self-service access to computing resources reduced planned customer support resources by as much as 40%.

- Disaster Recovery Services Provider

Your Strategy Starts With Applications

Categorize requirements based on business needs



Example:

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NetApp®

2600
& FAS
BASED

Current Big Data Solutions

Analytics Bandwidth Content

NetApp Open Solution For Hadoop **A**

Increase competitive advantage with insights from your own data

HPC: Seismic Processing **B**

Accelerate time to results with scalable bandwidth, unmatched density, and proven reliability

5400
BASED

Full Motion Video **B**

Ingest, Exploit and Disseminate life saving information faster

5400
BASED

HPC: Lustre **B**

Massively scalable solution for large scale cluster computing

5400
BASED

Media Content Management **B**

Improve your media workflows to better monetize your content

5400
BASED

StorageGRID **C**

Make informed decisions by leveraging more data from longer periods of time

2600
BASED



Benefitting from the Cloud Lessons

Top Barriers:

- Multiple hardware architectures
- Big Data Solutions missing
- Lack of integrated management
- No single vendor can realistically do it all
- Lots of hype, lack of substance

Why NetApp:

- Single future-ready architecture for heterogenous workloads
- Single future-ready architecture for Big Data workloads
- OnCommand™ integrated management
- Partner ecosystem for choice without compromise
- Field-proven, practical implementations

Over 1 Billion End Users Receive Cloud Services Built on NetApp