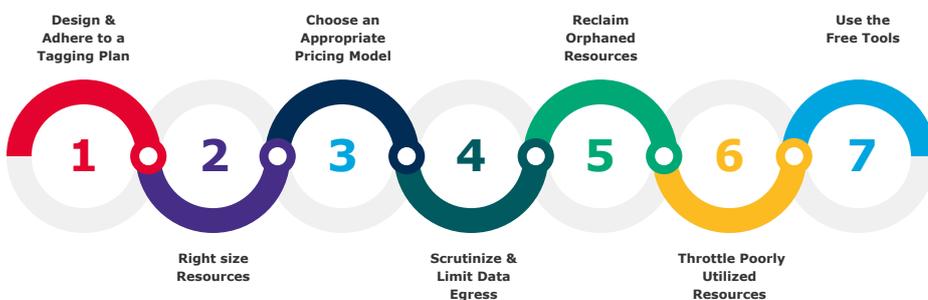# Fusion Cloud Expense Management

Summary

In a recent white paper "Seven Steps to Reducing Public Cloud IaaS Expense", Gartner argues that given pricing incentives and discounts offered by public cloud providers can be convoluted and confusing, organisations new to public cloud infrastructure may not appreciate the fundamental issues that contribute to unnecessary spend. And even when best practices are clearly understood, applying them consistently across a large deployment can prove difficult.

To help organisations navigate their way through these complexities, Gartner has devised seven steps (building blocks) to better understand, manage and control costs related to cloud services. These steps are

Design & Adhere to a Tagging Plan		Choose an Appropriate Pricing Model		Reclaim Orphaned Resources		Use the Free Tools
1	**2**	**3**	**4**	**5**	**6**	**7**
	Right size Resources		Scrutinize & Limit Data Egress		Throttle Poorly Utilized Resources	

These building blocks help organisations become more proactive in managing cloud related expenses, rather than wait for the problem to manifest and react to it. To address these, Fusion, a leading IT Operations and Service Management Managed Service Provider, has developed two sets of outcome-based services that fully support these Gartner recommendations.

Capacity Optimisation as a Service (COaaS)

Capacity Optimisation as a Service provides detailed analysis of how computing, network and storage resources are being utilised and provide provides visibility and control over multi-cloud costs including AWS, Azure, Google Cloud, OpenStack, and others. In addition, COaaS analyses current and future costs and the utilization of multi-cloud infrastructure services, providing insight and control over capital and operating expenditures.

COaaS value

- Eliminate waste by optimizing resource usage and revealing unused services
- Simulate migrations and deploy the right resources at the right cost
- Track and manage cloud costs with visibility across multi-cloud infrastructure
- Align cloud expenses with business needs with customized views and resource costs
- Break down cloud costs and allocate to business owners across the organization

DEaaS value

- See assets and dependencies in a single pane of glass, whether on premises or in the public or private cloud
- Empower security operations to perform essential prevention and detection
- Start mapping from any piece of information — multi-cloud, software, hardware, network, storage
- Reduce service outages with predictable change and configuration management

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Discovery as a Service (DEaaS)

Discovery Exploitation as a Service automates asset discovery and application dependency mapping to build a holistic view of all the data centre assets, multi-cloud services and their relationships. This accuracy and consistency of the discovered data along with other relevant data sources are maintained through Fusion's unique Data Quality Assurance service. Fusion's DEaaS fully integrates and supports the end-to-end service views required for service cost modelling offered by COaaS.

The 7 Steps to Reduction

The following section expands on each of the Gartner's recommended Seven Steps to Reducing Public Cloud IaaS Expense.

Gartner's 7-steps to Public Cloud Migration		Critical Capabilities	DEaaS	COaaS
Step 1	Design and Adhere to a Tagging Plan	Discover IT infrastructure residing in the cloud	✔	✔
		Discover and map infrastructure dependencies for each application service	✔	-
		Discovering cloud tags associated to each IT component residing in the cloud	✔	✔
		Improve tagging quality through reporting against standards and best practice	✔	✔
		Define best practice tagging that enables Capacity Management and also Discover tags and report assets based on tags and those without tags	✔	✔
Step 2	Right size Resources	Know all the components and dependencies that deliver a service	✔	-
		Gather baseline resource consumption usage for the application service	-	✔
		Identify application migration priority list based on criteria such as consumption, operating systems, business service criticality and deployed environments	-	✔
Step 3	Choose an Appropriate Pricing Model	Using baseline consumption analysis automatically identify available cloud options are related costs	-	✔
Step 4	Scrutinize and Limit Data Egress	Understand in/out bound communications dependencies across zones and cloud external	✔	-
		Analyse total in/out bound network volume refined with discovered data from DEaaS to understand data egress	✔	✔
Step 5	Reclaim Orphaned Resources	Identify list of unallocated computing and storage resources	✔	✔
		Resource utilisation reports to identify orphaned resource targets	✔	✔
		Reassign orphaned resources and reverify	✔	✔
Step 6	Throttle Poorly Utilized Resources	Regular reporting on poorly utilised resources	-	✔
		Verify action plan for throttling/minimising under-utilised resources	✔	✔
Step 7	Use the Free Tools	Advice on best practice	Fusion Advisory Service	

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