
Cost Analytics

To get the most out of your spending data, the Cost Analytic Dashboard allows you to drill deeper into the costs based on different parameters and optimize the size of your cloud deployments. The filter criteria, Dashboard access, Dashboard Rules, frequency of updates is similar to the Executive Dashboard.

The costing data displayed here is excluding the taxes.

Product Cost Trend

View the cost trend for each product as well as the forecast for infrastructure services and plan the strategy for cost optimization. Only products that have a cost associated for the selected period are included in this report.

Gaining visibility into the patterns, understanding them, and making decisions based on that information will be key to optimizing the cost.

What is Included:

- » Any product consumed during the selected period is considered for this widget.
- » By default, the cost trend for one product is displayed based on the filter criteria. You may however choose to view the cost trend for another product (instead of the product displayed by default) by selecting it from the Product drop-down list.

Instance Type or Size (VM Count)

IaaS vendors offer their instances or VMs with different specifications based on sizes, categories, flavors or families. Analyzing the number of VMs based on the Tier Size, Purpose, Generation, Flavors or instance type assists in right sizing and optimizing the environment.

What is Included:

- » Only Virtual Machines consumed during the selected period and for the selected providers are considered for this widget.
- » The basis of reporting is the Instance Type/size and not the unique VM ID. This means that if a VM is resized from one type to another, the same VM may be counted multiple times based on the period selected. For example, a AWS VM with the Instance Type m1.small is changed to m1.medium on 10th Jan 2017. If this widget is viewed for the period Jan 1st to Jan 31st, the same VM will be counted as part of the m1.small Instance Type as well as the m1. medium Instance Type. However, if the period selected is only Jan 1st -Jan 10th, the count would accurately reflect the instance type.

What is Excluded:

- » Other IaaS cloud resources are not considered in this widget.

VM Cost By Instance (Type, Size, Flavor)

The cost of a Virtual machine can be broken down by the various “tier size” of instances-“Micro,” “Small,” “Standard” etc. Each size is further classified based on the purpose of the instance---for general usage, computation, storage, GPU, or Memory. The size of the virtual machine affects the pricing. The size also affects the processing, memory, and storage capacity of the virtual machine. This visualization shows the relative costs based on the above parameters and will enable cost optimization.

For details on the Instance Types supported by AWS or Azure, refer to this links:

- » <http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/instance-types.html#AvailableInstanceTypes>
- » <https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-sizes>
- » <http://docs.openstack.org/admin-guide/cli-manage-flavors.html>

What is Included:

- » Only Virtual Machines consumed during the selected period and for the selected providers are considered for this widget
- » The cost is based on the exact Instance type/size of the VM. For example, a AWS VM with the Instance Type m1.small is changed to m1.medium on 10th Jan 2017. If this widget is viewed for the period Jan 1st to Jan 31st, the cost of m1.small Instance Type will include the VM's cost from Jan 1st to Jan 10th and the m1. medium Instance Type will consider the cost for the remaining period.

What is Excluded:

- » Other IaaS cloud resources are not considered in this widget.

Resource Count By Region

Most of the cloud Infrastructure Services are Region dependent, while some are Region independent. Different cloud regions have different pricing for each cloud provider. Resource usage can be identified and scaled effectively by this visualization that indicates the number of resources associated with each region. The label used to depict the resource count is a combination of the cloud region and the providers' name.

What is Included:

- » All IaaS cloud resources consumed during the selected period and are associated with a specific region are considered for this widget
- » The basis of reporting is the Region and not the unique VM ID. This means that if a AWS VM is moved from US-East to US- West on 11th Jan the same VM may be counted as part of the US- East Region as well as the US- West Region. However, if the period selected is only Jan 1st -Jan 10th, the count would represent the region accurately.

What is Excluded:

- » Resources that are not associated with any region are excluded from this report

Resource Cost By Region

Not all regions are priced the same. Varying costs of different regions makes it necessary to view costs based on different regions. This report allows costs to be measured by the region and providing required inputs for optimal port deployment based on location. The label used to depict the resource count is a combination of the cloud region and the providers' name.

To view the regions supported by AWS or Azure, refer to the following links:

- » <http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-regions-availability-zones.html>
- » <https://azure.microsoft.com/en-in/regions/>

What is Included:

- » All IaaS cloud resources consumed during the selected period and are associated with a specific region are considered for this widget.

- » The basis of reporting is the Region and not the unique VM ID. This means that if a AWS VM is moved from US-East to US- West on 11th Jan the same VM may be counted as part of the US- East Region as well as the US- West Region. However, if the period selected is only Jan 1st -Jan 10th, the count would represent the region accurately.

What is Excluded:

- » Resources that are not associated with any region are excluded from this report.

VM Count By Source of Creation

Tracking where the instance is created (from the CMP platform or from the vendor's console etc.) allows you to monitor and avoid Shadow IT.

What is Included:

- » Only Virtual Machines launched and used partly or fully during the selected period.
- » The basis of reporting is the Source and not the unique VM ID. This means that if a VM is launched in the vendor console and then imported into the cloud platform on Jan 11th, this widget when viewed for the period Jan 1st to Jan 31st, will include the same VM as part of the Vendor Console as well as the Imported. However, if the period selected is only Jan 1st -Jan 10th, the count would accurately reflect the source.

What is Excluded:

- » Other IaaS cloud resources are not considered in this widget.

VM Cost By Source of Creation

Monitoring the VMs irrespective of where they are created allows CFOs to keep the cost under control. Virtual Machines can be spun up directly in the vendor console and managed from there. Or you may choose to import them into the Cloud platform to manage using a single pane of glass. Or you may spin up VMs using the Cloud Platform. This widget will clearly distinguish between resources based on the source of creation.

What is Included:

- » Only Virtual Machines with a cost exceeding 0.01.

What is Excluded:

- » Other IaaS cloud resources are not considered in this widget.

Cost By IaaS Usage Type

Analyzing costs based on the infrastructure usage type provides inputs on the obvious and the hidden costs. Take the necessary action either by terminating or re-sizing the instances or by changing/modifying Snapshot details or Elastic IP details, based on the data shared by this graphical report.

What is Included:

- » Cost of all resources exceeding 0.01
- » The Usage Type for Azure is a combination of the Meter_name + Meter_subcategory

What is Excluded:

Cost By Platform

Each cloud provider charges a premium for instances running Windows in order to cover the licensing costs for Windows. This reports provides cost details based on the platform and facilities cost optimization.

What is Included:

- » Only Virtual Machines with a cost exceeding 0.01.
- » Only Platforms are considered.

What is Excluded:

- » Other IaaS cloud resources are not considered in this widget.
- » Operating systems are excluded.