Qubole Cost Explorer

Qubole Cost Explorer provides enterprises a financial governance solution to monitor big data workload spend with pre-built and customizable reports and visualization. Data teams can now have a clear view of their data analysis and processing costs and can effectively manage, control, and reduce their big data cloud costs according to their workload burstiness and lifecycle with Qubole Cost Explorer. Team leads can now do the following:

Spend Tracking

Track spend on cloud resources by the cluster, cluster instance, jobs, or user level

Monitor Showback

Understand the cost overruns and unexpected workload burstiness spend to plan better for future workloads

Justify Business Cases

Show cost savings at job, cluster or user levels to the finance team and optimize the spend accordingly

Plan and Budget

Budget and forecast the future spend based on past job/user level costs, and cluster-level metrics to prepare plans and forecasts

Optimize Opportunities

Discover the resources with the highest spend and vice versa and take the right actions to optimize TCO on the overall portfolio

Build ROI Analysis

Calculate the dollar spend on an organization's big data workload at a granular level. Also, calculate the return on investment by project and portfolio
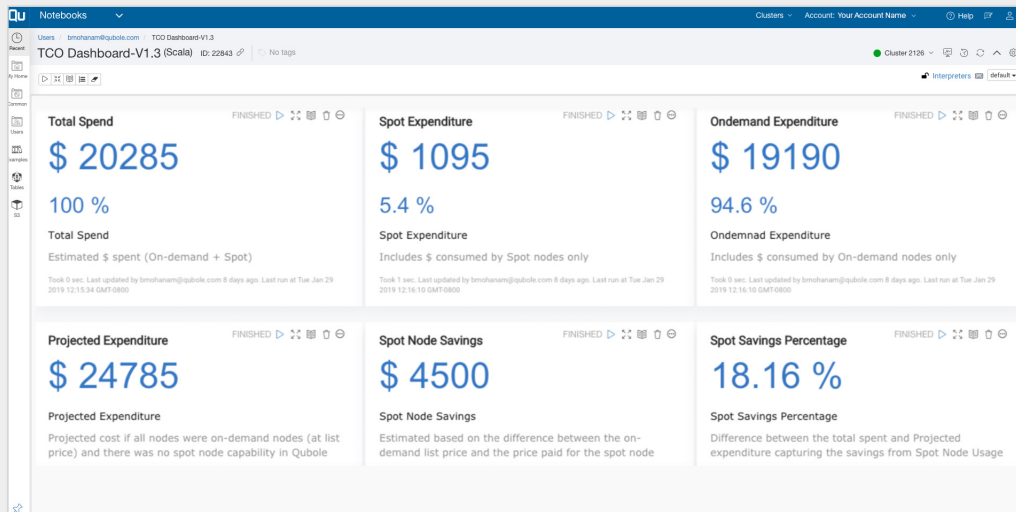

Figure 1: Qubole Cost Explorer based Dashboard

Qubole Cost Explorer provides an enhanced level of reporting to understand the costs at workload, job and user level in addition to infrastructure and services level. It provides cost-related information for the following categories:

Account Level
Aggregate the dollar spend at an individual account level

Pre-existing Tag Level
Attribute the dollar spend at public cloud compute tag level

Cluster Level
Attribute the dollar spend at an individual cluster level

Cluster Instance Level
Attribute the dollar spend at the cluster instance level

Job Level
Attribute the dollar spend at an individual command level

User Level
Attribute the dollar spend at an individual user level

User Email	Command Id	EC2 Cost	QCUH	Total EC2 Cost	Total QCUH	% Ec2 Consumption	% QCU Consumption
mktg_analyst@dataplatform.com		541.69	1866.53	6989.42	34276.41	7.750	5.446
data_engineer@dataplatform.com		0.07	0.35	6989.42	34276.41	0.001	0.001
Ai_ML_workbench@dataplatform.com		0.00	0.01	6989.42	34276.41	0.000	0.000
Presto_user@dataplatform.com		19.60	61.46	6989.42	34276.41	0.280	0.179
Spark_user@dataplatform.com		0.74	2.02	6989.42	34276.41	0.011	0.006
Airflow_user@dataplatform.com		2.23	1.41	6989.42	34276.41	0.032	0.004
business_analyst@dataplatform.com		12.13	110.29	6989.42	34276.41	0.174	0.322
data_admin@dataplatform.com		5.53	18.98	6989.42	34276.41	0.079	0.055
external_partner@dataplatform.com		0.18	0.49	6989.42	34276.41	0.003	0.001

Figure 2: Example of user-level cost reporting

Custom_Adhoc_Query 13.3%
Data_Analyst_Operations_1 12.9%
Dta_Pipeline_2 6.7%
Data_Engineering_1 0.5%
Marketing_Program_Analys... 30.9%
Marketing_Programs_Analy... 0.1%
Business_Operations_1 9.2%
Data_Pipeline_1 17.1%
Data_Engineering_2 1.8%
Data_Analyst_Finance_1 0.4%
AI_ML Workgroup_2 4.9%
AI_ML Workgroup_1 1.4%
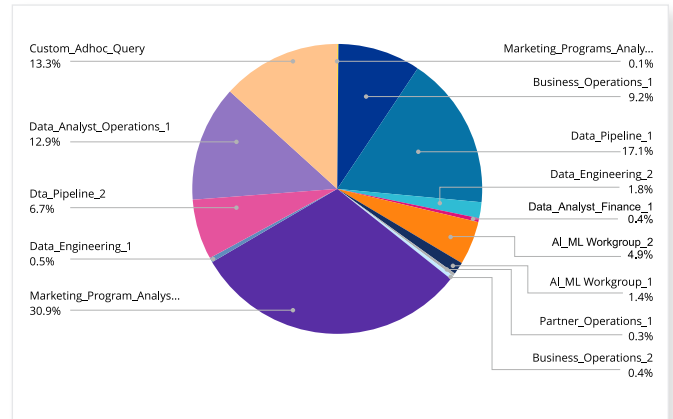Partner_Operations_1 0.3%
Business_Operations_2 0.4%

Figure 3: Cost Reporting per user/business activity

With Qubole Cost Explorer, team can have a full understanding of what is being undertaken on a platform, by whom and how it relates to business objective and value.

About Qubole

Qubole is passionate about making data-driven insights easily accessible to anyone. Qubole customers currently process nearly an exabyte of data every month, making us the leading cloud-agnostic big-data-as-a-service provider. Customers have chosen Qubole because we created the industry's first autonomous data platform. This cloud-based data platform self-manages, self-optimizes and learns to improve automatically and as a result delivers unbeatable agility, flexibility, and TCO. Qubole customers focus on their data, not their data platform. Qubole investors include CRV, Lightspeed Venture Partners, Norwest Venture Partners and IVP. For more information visit www.qubole.com