

Enterprise Dashboards

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Overview

The goal of the Enterprise Dashboards is to remove the complexities of cost & usage analysis, and provide enterprises with a clear understanding of something, to enable them to make the right business decisions quickly. The Enterprise Dashboard are made up of multiple templates known as modules to help you gain insight into different aspects of your cost and usage as well as enable your teams to better understand the cost of their applications and opportunities to optimize. Every dashboard complements the other modules so you can grow your reporting analytics and gain additional insight. Using separate modules provides greater flexibility, allowing you to customize existing modules and take advantage of the new templates without overwriting your existing customizations. If the dashboards were in a single report it would overwrite all customizations each time you create the latest template.

- The Cost Intelligence Dashboard is an interactive, customizable and business accessible QuickSight dashboard to help customers create the foundation for their own Cost Management and Optimization reporting tool.
- The Data Transfer Dashboard allows your organization to understand their data transfer cost and usage across all AWS products so you can take action on optimization opportunities.

Interested in getting the dashboards in a single view? Below are a few options available today. We recommend option 1 or 2 since it offers the most consistent experience for your teams.

- Embedding the dashboards
 - o High effort, full customization, most consistent experience
- Adding the latest module visuals to your Cost Intelligence Dashboard
 - o Medium effort, full customization, consistent experience
- Leveraging the dashboard as is without customization
 Low effort, least customization, inconsistent experience
- Recreating your customization with each module release
 - High effort, full customization, inconsistent experience

Notes:

- This QuickSight dashboard is not an official AWS dashboard and should be used as a self-service tool. We recommend validating your data by comparing the aggregate ungrouped Payer and Linked Account spend for a prior month.
- The Athena views are updated to reflect any additions in the cost and usage report. Periodically check the lab to confirm you are using the latest views.





Field List

The table below provides a list of all fields in the Dashboard Template

Field	Field From	QuickSight	Notes – Added for All QuickSight Calculated
	Athona Miow		Fields
month		1 2 3 4	
hilling period			
billing_period	Athena View	1 2 5 4 5	
usage_date		1 2 5 4 5	
payer_account_id	Athena View	1 2 3 4 5	
linked_account_id	Athena View	1 2 5 4	
Invoice_id	Athena View		
charge_type	Athena View	1 4 5	
charge_category	Athena View		
purchase_option	Athena View	1 2	
ri_sp_arn	Athena View	1	
ri_sp_end_date	Athena View	1	
ri_sp_term	Athena View	1	
ri_sp_offering	Athena View	1	
ri_sp_payment	Athena View	1	
product_code	Athena View	1 4 5	
product_name	Athena View	1 5	
service	Athena View	1	
product_family	Athena View	1	
usage_type	Athena View	1 5	
operation	Athena View	1 4 5	
item_description	Athena View	1	
availability_zone	Athena View	1	
region	Athena View	1 4 6	
instance_type_family	Athena View	1	
instance_type	Athena View	1	
platform	Athena View	1	
tenancy	Athena View	1	
processor	Athena View	1	
processor features	Athena View	1	
database_engine	Athena View	1	
product_group	Athena View	1	
product_from location	Athena View	1	
product_to_location	Athena View	1	
from_location	Athena View	5	
to_location	Athena View	5	
data_transfer_type	Athena View	5	
current_generation	Athena View	1	
legal_entity	Athena View	1	
billing_entity	Athena View	1	
pricing_unit	Athena View	1 4	
resource_id_count	Athena View	1	





resource_id	Athena View	4 5	
usage_quantity	Athena View	1 2 4 5	
Tbs	Athena View	5	
unblended_cost	Athena View	1 3 4 5	
amortized_cost	Athena View	1 2	
blended_cost	Athena View	5	
ri_sp_trueup	Athena View	1	
ri_sp_upfront_fees	Athena View	1	
unblended_rate	Athena View	5	
blended_view	Athena View	5	
public_ondemand_rate	Athena View	5	
public_cost	Athena View	1 4 5	
billing_period_mapping	Athena View	1	
payer_account_id_mapping	Athena View	1	
ri_sp_arn_mapping	Athena View	1	
Cost Upblandad	QuickSight	1	Invoiced cost
Cost_Onbiended	Calculation	I	
Cost Amortized	QuickSight	1	Amortized cost (i.e. RI/SP upfront fees spread
Cost_Amortized	Calculation	I	over the life time of the term)
	QuickSight		The Cost field is used in all aggregate cost
Cost	Calculation	1 2 3 4 5	visualizations except the billing summary that
	Calculation		calls out the Invoiced and Amortized Cost
	QuickSight		Public OnDemand cost equivalent – Note that this
Cost_Public	Calculation	1 4	value is not populated for all services and you will
	culculution		want to validate if using for any new visuals
	QuickSight		Returns any RI/SP upfront fees to the account
RI_SP True Up Cost	Calculation	1	that purchased the pricing model to eliminate
			double billing
RI SP Upfront Fees	QuickSight	1	The upfront fee for an RI/SP
	Calculation	-	
	OuickSight	110	Used to show the % Coverage by Usage Quantity.
% Coverage	Calculation	112	Create or update this field if you want to change
			the field to use Cost instead of usage
Assessment	QuickSight	110171415	Update this field from linked_account_id to your
ACCOUNT	Calculation	1 2 5 4 5	account name after you add in your mapping
	QuickCight		Ava daily sect for each month by the number of
Avg Daily Run Rate	QuickSignt	1	Avg daily cost for each month by the number of
			lays
Days	Calculation	1	Calculates the days in each month
			Removes the region from the usage type to
EBS Volume	Calculation	1	provide a clean list of EBS Volume types
			Calculated off of the Group By Parameter for use
Group By Fields	Calculation	1	in the OPTICS Explorer
	Calculation		Combines the product family and the
	QuickSight		product aroun field so that any field that if an
Product_Family Group	Calculation	1	item doesn't have a product family it pulls the
			nroduct aroun field





RI_SP % savings	QuickSight Calculation	1	% Savings over On Demand you can filter to include or exclude unused costs
RI_SP Savings	QuickSight Calculation	1	Savings over On Demand for the used portion of an RI or SP
RI_SP Terms	QuickSight Calculation	1	Combines the various terms (payment type, purchase option, etc.) together into a single field
RI_SP Type	QuickSight Calculation	1	Combines the identifier for the type of RI or SP into a single field
RI_SP Unused Cost	QuickSight Calculation	1	Cost of the unused portion of an RI or SP. NOTE: Unused SP/RI does not mean waste and can be cheaper to have some unused at times.
RI_SP Fees	QuickSight Calculation	1	Upfront costs of an RI or SP
S3 Storage Class	QuickSight Calculation	1 4	Separates the storage class from the operation field for a single S3 storage class field
Total RI_SP Savings	QuickSight Calculation	1	RI_Unused Cost combined with the RI_SP Savings
Unit Cost	QuickSight Calculation	1	Divides your cost by usage_quantity
Avg Hourly Cost	QuickSight Calculation	2	Calculates your average compute hourly cost for an EC2 instance
Avg Spot Savings	QuickSight Calculation	2	Estimates your average Spot savings over On Demand. Note that Spot doesn't have a public cost so we use the average On Demand Cost as an estimate
On Demand Unit Cost	QuickSight Calculation	2	Divides your On Demand cost by usage_quantity
RI/SP Unit Cost	QuickSight Calculation	2	Divides your RI and SP cost by usage_quantity
Spot Unit Cost	QuickSight Calculation	2	Divides your Spot cost by usage_quantity

Notes:

- Data sets align with the Quick Sight Data Sets so 1-4 are from the Cost Intelligence Dashboard and data set 5 is from the Data Transfer Dashboard.
- All QuickSight Calculated Fields will have a "=" next to them in the field list. To view the calculation, follow the steps 3 in the Advanced Setup 2 Customize your summary_view Cost Value of the Modify Cost Intelligence Dashboard.
- Add any additional tag values or fields into your queries by including them before the first sum or approx_distinct field and then add another group by field at the bottom.
- The 'resource_id_count' counts the distinct resources by the summary_view query. We recommend using this query only at the most granular level or removing from the view

Customizing the Cost Fields in the Dashboard

The Cost Intelligence dashboard uses calculated fields for all cost related fields used in the visual to allow you to customize to your organizations requirements without having to edit every visual. If interested in customizing





the cost values simply edit the following cost fields below and all others will update accordingly. For example, if you wanted to add a 0.5% service fee you would edit the fields below to include ({Field} * 0.005).

Fields:

- Cost_Unblended
- Cost_Amortized
- Cost_Public
- RI_SP True Up Cost
- RI_SP Upfront Fees

Notes

- Review the field list table to see the corresponding data sets
- Calculation should be added to Cost for all data sets outside of the Summary
- Cost Unblended = Cost_Amortized + RI_SP True Up Cost + RI_SP Upfront Fees

Understanding the Visuals

To understand what each visual represents you can click on the visual to see the following information:

- Select **Visualize** on the left navigation to see the data set used.
- Select **Field wells** in the top center bar to drop down the field wall and see the various fields in the visual and update to include any additional groupings.
- Select **Filter** on the left navigation to see the various filters for that visual and click on the various filters to see the logic used.





Visual by Visual Breakdown

Billing Summary







Previous Month Amortized Spend \$379.98K	This is the amortized spend in the previous month, meaning the true cost of running all applications and workloads. This number includes any RI/SP fees amortized evenly over the months of the term, and discounts/credits applied to the accounts that used them.
Amortized Spend Jan-21 Dec-20 \$379.98K \$264.64K 43.58% ↑	The change in amortized spend between the previous month and the month prior to that.
Amortized Spend Forecast \$329.02K for Feb-21	QuickSight is forecasting that amortized spend will be \$326K for all of the current month. For more information on QuickSight's forecasting, click <u>here</u> .
Involced Spend Bitz Unit B Bitz Unit C Bitz Unit C	This graph shows the invoice spend over time. The line represents the total, and the sections of the bars represent any of the following; Account ID, Payer Account, Region, Service, or Charge Type. Grouping by Charge Type, for example, will let a customer see when a refund or credit was applied and how it affected the overall invoiced amount. Grouping by Service will let a customer see which service was invoiced the most in any given month, and how that has changed over time.







This uses QuickSight's forecasting feature to forecast the total invoice amount into the future. The shaded area represents the confidence interval, meaning the forecasting amount, in reality, is likely to fall within the shaded area. The further away from the center line the less confident the model is. <u>More information</u> on forecasting in QuickSight.

Amortized Spend

Credit DiscountedUsage Fee Refund Riffee SavingsPlanCoveredUsage SavingsPlanNegation SavingsPlanNegation Tax Usage



This graph shows the amortized spend over time. The line represents the total, and the sections of the bars represent any of the following; Account ID, Payer Account, Region, Service, or Charge Type. Grouping by Account, for example, will let customers see the true cost of running their applications in that account, based only on usage and an amortization of upfront fees. The application of the upfront fees to each account is based on how much of an RI/SP that account used, even if that RI/SP was purchased in another account.

This uses QuickSight's forecasting feature to forecast the total amortized amount into the future. The shaded area represents the confidence interval, meaning the forecasting amount, in reality, is likely to fall within the shaded area. The further away from the center line the less confident the model is. <u>More</u> <u>information</u> on forecasting in QuickSight.





Cost Summary

Usage Cost Summ	nary - Previous Mon	th			
Usage Spend	Top Spending Account Biz Unit B	Top Service by Spend AmazonEC2	Most Popular Region by Spend US-east-1	Top Service Costs Movers - Top 3 spend il • AWSDataTransfer increased by 11	f within top 20 movers for Jan 21 lic .87% (54.684) from \$40.23K to \$44.92K
Avg. Daily Run Rate increased by 59.57% in Jan-21	Number of Accounts	Number of Services	Number of Regions	Top Cost movers for Jan-21 are: • ComputeSavingsPlans increased • AWSDataTransfer increased by 11 • AmazonEFS increased by 90.62%	by 72.64% (\$116.89K) from -\$160.91K to -\$44.02K. .67% (\$4.696) from \$40.23K to \$44.92K. (\$1.24k) from \$1.36K to \$2.60K.
Usage Spend Amazon/VC Modelation Amazon/CC A Section C Section	Anazonés Anazonéuretibuty Anazonéis Anazonés Anazonés Anazonéuretibuty Anazonéis Anazoné Anazonés Anazonéuretibuty Anazonéis Anazoné Anazonés Anazonéuretibuty Anazonéis Anazoné Anazonés Anazonéuretibuty Anazonéis Anazoné Anazonés Anazonéuretibuty Anazonéis Anazoné Istance Is	Top 10 Drill Down Incaso 53 Conserve instance Compute	a Torodar Storage System Operation & Da yood Castic Search Volume Castic Search Home	tabase Instance AMSTanshifusteway atance Other	p 5 Spending Accounts Bit time 5 Bit tim
ι	Jsage Spend \$310.4	46K	٦ c t r f	The usage spen customer spent heir usage. This nuch it costs to ees and marke	d is the amount of money a in the previous month only on s is useful to figure out how o run applications, independent of t place purchases.
	Top Spending Account	nit B	l	n the previous Prod" was the to	month, the linked account "Main op spending account by usage.
,	Top Service by Spend	nEC2	 	n the previous ervice by spend	month, Amazon EC2 was the top d.
٨	Most Popular Region by S	st-1	۲ ۲	he most spend previous month	d went to this region in the





Top Service Costs Movers - Top 3 spend if within top 20 movers for Jan-21 is: • AWSDataTransfer increased by 11.67% (\$4.69K) from \$40.23K to \$44.92K.		This visual uses the <u>QuickSight Trend Group</u> feature to lists the most expensive of the top 20 cost movers in the previous month. The difference in cost might not be as high as others, but the total spend is higher.
Avg. Daily Run Rate increased by 59.57% in Jan-21		The average daily run rate (the total usage cost divided by the average number of days in a month) has increased this month when compared to last month.
Number of Services		The number of accounts that were linked in the CUR in the previous month.
Number of Accounts		The number of services used in the previous month. Customers should keep an eye on this number as it changes over time. Innovation and modernizing often involve using more AWS services than before.
Number of Regions		The number of regions the customer has deployed services to in the previous month. Taking advantage of all of AWS regions helps customers with high availability and running applications as close to the end user as possible.
Top Cost movers for Jan-21 are: • ComputeSavingsPlans increased by 72.64% (\$116.89K) from -\$160.91 • AWSDataTransfer increased by 11.67% (\$4.69K) from \$40.23K to \$44. • AmazonEFS increased by 90.62% (\$1.24K) from \$1.36K to \$2.60K.	: IK to -\$44.02K. 92K.	These are the top cost movers for the current month compared to the previous. These are ranked by the size of the difference in cost, not by the total amount of spend.











Anomaly detection - Note: Configure Anomaly if using monthly instead of daily and update data set to 15 months LAST UPDATED 6 MONTHS AGO The top 5 anomalies for total Cost on Aug 26, 2020 are: • [ALL] Storage was \$60.81, lower than the expected \$3.90K • [ALL] System Operation was \$26.90, lower than the expected \$1.61K • [ALL] Data Transfer was \$529.32, lower than the expected \$1.88K • [ALL] Load Balancer-Application was \$28.50, lower than the expected \$96.52 • [ALL] Alarm was \$20.93, lower than the expected \$71.17	The anomaly detection visualization uses <u>QuickSight's Anomaly Detection</u> capabilities to surface any suspected anomalous cost and usage patterns. Customers can explore the anomalies further and see visualizations of where and when the anomalies occur, and insight into which accounts and services are responsible. This capability has its own pricing which is detailed <u>here</u> .
bally Cost - Change to monthly fusing monthly data Ansacrific Ansacrific A	This line graph displays the sum of the usage cost per day, and can be grouped by service, account, product group, or charge type by default. Customers can look for spikes in usage by service or account. Spikes in usage often account for higher AWS bills that expected.

Compute Summary







	Compute Usage Spend Jan-21 \$414.29K -6.86% ↓	Dec-20 \$444.82K	The compute usage spend displays the amount of spend in the previous two months that was spent on Compute usage only. It will also display a percent change in the prior month to the one previous to that.
	Compute RI/SP Savings \$128.58K		This amount is how much was saved in the prior month using Compute RIs and SPs.
	RI/SP Savings % 28.52%		This percentage is derived by dividing the sum of all cost in the previous month by the sum of the public on-demand pricing for the same usage. The result is the difference in what you actually spent on Compute in the prior month to what the same usage would've cost using public on demand pricing, as a percentage. This shows a percentage derived by
	Spot Savings % (Avg Unit Cost) -2.2%		dividing the on demand unit cost by the average Spot unit cost. The on demand unit cost is the overall cost divided by the usage quantity. In effect, this visual tells you how much you saved using Spot when compared to the on demand equivalent of usage.
EC2 Coverage MoM	(Hours)	OnDemand Reserved SavingsPlan Spot	This shows the percentage of coverage, month-over-month, of compute the purchase options reserved instances, savings plan, Spot, and on demand. That is to say, the amount of compute usage that was covered by one of these four purchase options for the given month.













This graph shows the EC2 elasticity over the past few weeks. Each bar represents a day, and it is grouped by purchase option. You can use this to see if you have instances running on the weekends when you don't think there should be (because, perhaps, you are a bank).

Storage Summary

EC2 Compute Cos



Group By: billing_period (MONTH





S3 Storage Spend	This visualization details how much was spent on S3 storage only in the previous month. No other costs go into this number such as fees or marketplace purchases.
s3 Period over period Total Cost for Jan-21 decreased by 2.47% (-\$482.48) from \$19.51K to \$19.03K.	This visual shows you how the cost of your S3 services has changed from the prior month compared to the month prior to that.
Storage Class Coverage (GB-Mo) StandardlA 63K (5%) 5tandardlA 63K (5%) 5tandardl 6Gacier 306K (25%) 5tandard 6Gacier 5tandardl 6Gacier 51.22K 1ntelligentTieringIA 9 An-21 6Gacier 51.22K 1ntelligentTieringIA 52.23K 8 ReducedRedundancy 5 Standard 5 Standard 5 Standard 666K (54%) 5 Standardl 6 Glacier 5 Standard 5 Standard 5 Standardl 5 Stan	You can use this graph to see how many GBs were spread across the different S3 storage tiers, including Glacier, in the previous month. Customers might look for opportunities to save by storing more in Glacier or using Intelligence Tiering.
EBS Storage Spend	This represent the total cost of EBS storage in the prior month.
EBS Period over period Total Cost for Jan-21 decreased by 6.95% (-\$4.11K) from \$59.07K to \$54.97K.	This visual shows you how the cost of your EBS storage has changed from the prior month compared to the month prior to that.









This shows a breakdown of spend by EB2 Volume type. You can look for opportunities to cost optimize by shifting spend to slower or cheaper types of EBS Storage.

EBS Unit Cost

📕 EBS General Purpose SSD (gp2) 📕 EBS Provisioned IOPS SSD (io1) 📕 Magnetic 📕 Throughput Optimized HDD (st1) 🕚 Unit Cost



S3 Unit Cost

📕 Glacier 📕 IntelligentTieringFA 📕 IntelligentTieringIA 📕 ReducedRedundancy 📕 Standard 📕 StandardIA 🛛 Unit Cost



This visualization is meant to be used in conjunction with the one below. The green line represents the unit cost of storage, per GB. This is derived by dividing the total cost on storage by the number of GB stored. You can compare the trend of your unit cost to your spend. If unit costs are rising, it might make sense to explore using more Glacier or less expensive storage tiers.

This graph shows the total number of GB stored on EBS (the green trend line) compared to the overall spend on the different EBS Storage types. As total number of GB decreases, we expect the total amount of spend to decrease as well. If the customer is making more costoptimized EBS Service storage choices, the usage line in this graph might go up, but the unit cost in the graph above might stay flat or go down.







EBS Storage Spend



S3 Standard Storage Cost by Bucket - Top 10

disa-init-land-prod i disa-landing-prod i elastic-backup-logging-nwm-coreserv-coreserv
 elastic-backup-logging-nwm-coreserv-non-coreserv-coreserv
 etcol-cluster-cluster-764233ff i nwm-insights-prod-dwh i mvm-insights-prod-land i nvm-px-prod-plan-store i px-events-prod i vpcflow-firehosespill



This visualization is meant to be used in conjunction with the one above. The green line represents the total number of GB stored in S3. The bars show you how much you're spending per storage tier or class. You should compare the trend of how many GB you are storing to the unit cost per GB (above) and make sure unit costs are staying flat or going down. One can accomplish this usually by taking more advantage of Intelligent Tiering, Glacier, and other less expensive storage tiers (at the expense of being slower).

This graph shows the total number of GB stored on EBS (the green trend line) compared to the overall spend on the different EBS Storage types. As total number of GB decreases, we expect the total amount of spend to decrease as well. If the customer is making more costoptimized EBS Service storage choices, the usage line in this graph might go up, but the unit cost in the graph above might stay flat or go down.

This graph shows you the cost of each bucket, and how that has changed over time. Helpful to compare this graph to the one next to it on the Dashboard to see how the amount being stored compares to the cost on a bucket-by-bucket basis.







This graph shows you the total number of GB stored in each bucket, and how that has changed over time. Helpful to compare this graph to the one next to it on the Dashboard to see how the amount being stored compares to the cost on a bucket-by-bucket basis.

Reserved Instance & Savings Plan Summary







Usage Savings Expiring Next Month \$5.65K	This number will show you how much savings is going to expire next month. This is savings realized by using RIs and SPs. It also means one of them is going to expire next month, and that you should renew to make sure your bill doesn't go up this amount two months from now.
Previous Month Unused Cost -\$5,083	This is how much money you spent on RIs and Savings Plans that didn't get used. If the number is \$0, that means you used all of your RIs and SPs in the previous month.
Utilized Commit Expiring Next Month \$15,107.38	This number is how much you've committed in cost to RIs and SPs that is expiring this month.
Utilized Commit Expiring this Month	This number is how much you've committed in cost to RIs and SPs that is expiring next month.
Usage Saving by Pricing Model and Service Reserved AmazonElastiCache standard Reserved AmazonRDS standard Reserved AmazonRedshift standard SavingsPlan Compt	This graph is showing you the savings you are seeing, based on usage or RIs and SPs, grouped by service. This way, you can see which services are savings the most.
Fit & SP Savings Summary Bit Unit B Bit Unit C Bi	This graph shows the RI and SP savings amount (as a pink trend line) compared to which accounts saw the savings. There is also a trend line in orange that displays the overall usage cost for the time period. This graph lets you see how much savings each linked account gets. You can use this visualization to generate reports to each account owner, or to business owners about their spend and savings. Accounts that use more RIs and SPs will see more savings.







This visualization is a graph telling you when your RIs and SPs are expiring, and how much savings will be expiring along with it. If you do nothing, these will be the amounts your bill goes up and when they will go up. Use this graph to help stay on top of renewals.

Avg. Hourly Cost by Pricing Model



These two visualizations together represent the opportunity you have to save more with a savings plan. The graph on the left shows the average hourly cost of Compute services, separated by pricing model. The orange section represents the On Demand spend and is blown up for the graph on the right. This On Demand spend is Savings Plan eligible which means if the graph never dips below a certain cost over a given period of time, you might want to commit that amount to a savings plan to see more savings.





Expiring RI/SP Tracker

Reserved Instance & Savings Plan Tracker - Previous Month

Select Expiration Month:

Mar 2021	Apr 2021	Jun 2021	Aug 2021	Nov 2023

RI_SP Type	RI_SP Terms	ri_sp_end_date	ri_sp_arn	Gross Savings	Unused Cost	Net Savings	Usage Cost	On
Reserved AmazonES standard	🗆 1yr No Upfront	🖃 Jun 5, 2021	arn:a	. \$458.30	\$0.00	\$458.30	\$1,020.77	
		🖃 Jun 8, 2021	arn:a	. \$4.70K	\$0.00	\$4.70K	\$10,472.54	
Reserved AmazonElastiCache standard	😑 1yr No Upfront	🖃 Aug 7, 2021	arn:a	\$558.00	\$0.00	\$558.00	\$1,182.96	
		🖃 Aug 10, 2021	arn:a	\$1.76K	\$0.00	\$1.76K	\$3,803.33	
Reserved AmazonRDS standard	🗆 1yr No Upfront	😑 Mar 16, 2021	arn:a .	\$914.37	\$0.00	\$914.37	\$1,630.11	
			arn:a .	\$1.90K	\$0.00	\$1.90K	\$3,392.64	
Reserved AmazonRedshift standard	1yr Partial Upfront	🖃 Jun 5, 2021	arn:a .	\$1.52K	\$0.00	\$1.52K	\$2,198.88	
SavingsPlan ComputeSavingsPlans	😑 1yr No Upfront	😑 Mar 16, 2021	arn:a .	\$27.39K	\$0.00	\$27.39K	\$74,400.00	
		🗆 Apr 7, 2021	arn:a .	\$26.91K	\$0.00	\$26.91K	\$74,400.00	
		🗆 Jun 5, 2021	arn:a .	\$13.43K	\$0.00	\$13.43K	\$37,200.00	
		🖃 Jun 16, 2021	arn:a .	\$12.48K	\$0.00	\$12.48K	\$37,200.00	
		😑 Jun 30, 2021	arn:a .	\$17.32K	-\$5.08K	\$12.24K	\$69,317.12	
	3yr No Upfront	🗆 Nov 16, 2023	arn:a .	\$15.92K	\$0.00	\$15.92K	\$14,880.00	
		🖃 Nov 22, 2023	arn:a .	\$15.12K	\$0.00	\$15.12K	\$14,880.00	
This call also a set of the			less the second	·		S. Lande	· · .	

This tab shows a pivot table of all of the RIs and SPs, when they expire, what their term is, what their ID is, what was committed or how much they cost, how much On Demand equivalent usage they incurred, and how much you saved. Use this to quickly get a report of the status of RIs and SPs.

OPTICS Explorer







MoM Pivot

			billing_period										
			Jun-20			Jul-20			Aug-20			Sep-20	
service	product_code	Account	Cost	% of Total	% Difference	Cost	% of Total	% Difference	Cost	% of Total	% Difference	Cost	% of
AWSBackup	AWSBackup	Biz Unit D	\$2.11	0.00%		\$5.46	0.00%	158.83%	\$5.49	0.00%	0.45%	\$5.55	(
			\$0.15	0.00%		\$0.14	0.00%	-6.81%	\$0.14	0.00%	-0.07%	\$0.14	(
AWSBudgets =	AWSBudgets	Business Unit 1	\$6.02	0.00%		\$7.80	0.00%	29.56%	\$7.54	0.00%	-3.33%	\$0.00	
			\$17.70	0.00%		\$18.16	0.00%	2.59%	\$18.32	0.00%	0.88%	\$0.00	(
AWSCertifica	AWSCertifica		\$4,353.05	0.32%		\$2,783.39	0.22%	-36.05%	\$3,480.93	0.28%	25.06%	\$4,374.35	(
AWSCloudTrail D	🗆 AWSCloudTrail	Biz Unit B	\$91.17	0.00%		\$40.54	0.00%	-55.53%	\$1.34	0.00%	-96.70%	\$2.85	(
		Biz Unit C	\$169.65	0.01%		\$97.15	0.00%	-42.73%	\$1.10	0.00%	-98.86%	\$1.24	(
		Biz Unit D	\$2,271.12	0.16%		\$2,333.46	0.18%	2.74%	\$717.24	0.05%	-69.26%	\$784.94	(
		Biz Unit E	\$80.67	0.00%		\$50.42	0.00%	-37.50%	\$48.35	0.00%	-4.09%	\$28.12	(
		Business Unit 1	\$37.07	0.00%		\$15.32	0.00%	-58.65%	\$0.35	0.00%	-97.74%	\$0.43	(
		Dev Web Service	\$36.27	0.00%		\$16.84	0.00%	-53.58%	\$0.16	0.00%	-99.06%	\$0.27	(
		Main Prod	\$564.85	0.04%		\$215.38	0.01%	-61.86%	\$19.29	0.00%	-91.04%	\$2.87	(
		Prod Migration	\$31.19	0.00%		\$12.77	0.00%	-59.05%	\$0.14	0.00%	-98.94%	\$0.17	(
		Prod Web Service	\$62.39	0.00%		\$29.07	0.00%	-53.40%	\$0.31	0.00%	-98.94%	\$0.40	(
			\$32,295.89	2.40%		\$28,715.47	2.33%	-11.08%	\$3,670.28	0.30%	-87.21%	\$4,024.68	(
AWSCodeArt	AWSCodeArti	Biz Unit D				\$0.00	0.00%						
AWSCodeCo	B AWSCodeCo	Biz Unit D	\$0.00	0.00%		\$0.00	0.00%		\$0.00	0.00%		\$0.00	(
AWSCodePip	🗆 AWSCodePip	Biz Unit D	\$2.00	0.00%		\$2.00	0.00%	0.00%	\$3.00	0.00%	50.00%	\$2.00	(
AWSConfig	⊟ AWSConfig	Biz Unit B	\$264.08	0.01%		\$230.93	0.01%	-12.55%	\$322.12	0.02%	39.48%	\$233.74	(
		Biz Unit C	\$1,209.34	0.09%		\$2,799.96	0.22%	131.52%	\$3,455.78	0.28%	23.42%	\$2,701.06	(
		Biz Unit D	\$2,665.75	0.19%		\$2,416.91	0.19%	-9.33%	\$2,270.07	0.18%	-6.07%	\$2,635.59	(
		Biz Unit E	\$150.04	0.01%		\$181.47	0.01%	20.95%	\$143.62	0.01%	-20.85%	\$122.60	(
		Business Unit 1	\$132.07	0.00%		\$128.82	0.01%	-2.46%	\$46.80	0.00%	-63.67%	\$43.34	(
		Dev Web Service	\$173.08	0.01%		\$142.40	0.01%	-17.72%	\$183 38	0.01%	28 78%	\$159.85	

Customizing the OPTICS Explorer Controls

The OPTICS Explorer uses QuickSight controls to allow your teams to Group or Filter fields.

- Customizing the Filter by: controls
- The Filter by: controls uses the standard process documented in the <u>Setting Up Parameter in Amazon</u> <u>OuickSight User Guide</u>.
- Customizing the Group by: Control
 - To update the **Group by:** Control first select the drop-down arrow next to the **Group by** header in the Controls field and select **Edit**
 - Next add your desired values to the **Define specific values** box with **one value per line** then select **Apply**
- Finally edit the **Group By Fields** calculated field by scrolling to the bottom of the calculation and adding the following between **{charge_category}**, and service)
 - \${GroupBy}=('Your added grouping defined in the previous step'),({corresponding field to map to}),

Note:





• Parameters and Controls can be used on any report. We recommend adding a control for the full dashboard for your business units or organization groupings.

Additional Resources

For more information visit the following User Guides:

- Cost and Usage Reports User Guide
- QuickSight User Guide

