gayathtri.finops /coreqa@123

exec [report].[sp\_CostDataInvestigation] @ID='60c1d63624bcbf21e9dda6a6',@Month='2021-09'

**Finops Assessment Report**

**To get service account id:**

select top 10 \* from report.serviceaccount where ServiceAccount ='AWS\_054217445839\_CEQA'

**To get Assessment runid and score**

select \* from report.AssessmentRuns where ServiceAccountID ='3851' order by AssessmentRunID desc

**Cost snapshot:**

select \* from report.AssessmentCostSnapshot where AssessmentRunID='992'

select \* from report.accountsummaryv3 where ServiceAccountID = 4923

**Average month spend per month:**

SELECT AVG(FinalSum)

FROM report.AccountSummaryV3 A

INNER JOIN report.[Date] D

ON D.DateKey = A.DateKey

WHERE D.Date BETWEEN FORMAT(DATEADD(MONTH,-3,GETUTCDATE()),'2021-08-31') AND GETUTCDATE()

AND A.ServiceAccountID = 3851

**Number of billable resources:**

SELECT COUNT(\*)

FROM report.ServiceResourceInventory I

INNER JOIN report.ServiceResource R

ON R.ServiceResourceID = I.ServiceResourceID

WHERE I.ServiceAccountID = 3851

AND I.isDeleted = 0

AND R.isBillable = 1

**Current month forecasted month cost check:**

SELECT

AssessmentRunID

,CurrentMonth

,CurrentMonthCost

,CurrentMonthForeCasted

,LastMonth

,LastMonthCost

,CU.Symbol

FROM report.AssessmentCostSnapshot S

INNER JOIN report.Currency CU

ON CU.Currency = S.Currency

WHERE AssessmentRunID = 938

**Potential cost avoidance by assessment category:**

* **Take the row count as a policy evaluated count and violated resource count as a resources violated, number of policy having violations = open recommendation**

Select  
A.Scenarioname  
,A.Serviceid  
,A.ServiceResourceID  
,A.Assessmentsubcategoryid  
,B.TotalResourceCount  
,B.violatedResourcecount  
  
--,AR.AssessmentResourceID  
--,AR.SavingPerday  
,(  
SELECT SUM(SavingPerMonth)  
FROM report.AssessmentResources  
WHERE AssessmentID = B.AssessmentID  
) Savingspermonth  
FROM report.AssessmentScenarios A  
INNER JOIN report.Assessment B  
ON A.AssessmentScenarioID =B.AssessmentScenarioID  
INNER JOIN report.AssessmentSubCategory C  
ON A.AssessmentsubcategoryId =c.AssessmentSubCategoryID  
--INNER JOIN report.AssessmentResources AR  
--ON B.AssessmentID=AR.AssessmentID  
where C.AssessmentsubcategoryName='config'  
and B.AssessmentRunID = 938  
and B.AssessmentStatus='completed'

**Potential cost avoidance by resource category:**

SELECT

COALESCE(SR.ResourceCategory,'Uncategorized') ResourceCategory

,COALESCE(SR.ResourceType,'Uncategorized') ResourceType

,COUNT(A.AssessmentID) PoliciesEvaluated

,SUM(CASE

WHEN ViolatedResourceCount > 0 THEN 1

ELSE 0

END) OpenRecommendation

,SUM(CAST(ViolatedResourceCount AS INT)) ViolatedResourceCount

,(

SELECT SUM(SavingPerMonth) FROM report.AssessmentResources

WHERE AssessmentID = A.AssessmentID

) SavingPerMonth

,S.ServiceResourceID

,S.ScenarioName

FROM report.Assessment A WITH (NOLOCK)

INNER JOIN report.AssessmentRuns AR WITH (NOLOCK)

ON AR.AssessmentRunID = A.AssessmentRunID

INNER JOIN report.AssessmentScenarios S WITH (NOLOCK)

ON S.AssessmentScenarioID = A.AssessmentScenarioID

INNER JOIN report.AssessmentGroup G WITH (NOLOCK)

ON G.AssessmentGroupID = S.AssessmentGroupID

INNER JOIN report.AssessmentCategory C WITH (NOLOCK)

ON C.AssessmentCategoryID = S.AssessmentCategoryID

INNER JOIN report.AssessmentSubCategory SC WITH (NOLOCK)

ON SC.AssessmentSubCategoryID = S.AssessmentSubCategoryID

LEFT JOIN report.ServiceResource SR

ON SR.ServiceResourceID = S.ServiceResourceID

WHERE AR.AssessmentRunID = 938

AND SC.AssessmentSubCategoryName <> 'Budget'

AND A.AssessmentStatus = 'Completed'

GROUP BY

SR.ResourceCategory

,SR.ResourceType

,A.AssessmentID

,S.ServiceResourceID

,S.ScenarioName

**Billable resources accessed count:**

**From snapshot:**

SELECT

NoOfBillableResourcesInCloudAccount NoOfBillableResourcesInCloudAccount

,NoOfBillableResourcesAssessed NoOfBillableResourcesAssessed

,NoOfBillableResourcesNotAssessed NoOfBillableResourcesNotAssessed

,BillableResourcesNotAssessed ListOfResourceTypesWithBillableResourcesNotAssessed

FROM report.AssessmentVisibilitySnapshot

WHERE AssessmentRunID =938

**From table:**

SELECT SUM(CAST(A.TotalResourceCount AS INT))

FROM report.Assessment A WITH (NOLOCK)

INNER JOIN report.AssessmentRuns AR WITH (NOLOCK)

ON AR.AssessmentRunID = A.AssessmentRunID

INNER JOIN report.AssessmentScenarios S WITH (NOLOCK)

ON S.AssessmentScenarioID = A.AssessmentScenarioID

INNER JOIN report.ServiceResource SR WITH (NOLOCK)

ON SR.ServiceResourceID = S.ServiceResourceID

WHERE AR.AssessmentRunID = 938

AND AR.ServiceAccountID = 3851

AND SR.isBillable = 1

**To Get billable resourcestype:**

SELECT SR.ResourceType

FROM report.ServiceResourceInventory I WITH (NOLOCK)

INNER JOIN report.ServiceResource SR WITH (NOLOCK)

ON SR.ServiceResourceID = I.ServiceResourceID

WHERE I.ServiceAccountID = 3851

AND I.isDeleted = 0

AND SR.isBillable = 1

GROUP BY SR.ResourceType

**To get Assessed billable resource Type:**

SELECT SR.ResourceCategory

,SR.ResourceType

,SR.Resource

,S.\*

FROM report.AssessmentScenarios S

INNER JOIN report.ServiceResource SR

ON SR.ServiceResourceID = S.ServiceResourceID

WHERE AssessmentScenarioID IN (

SELECT AssessmentScenarioID

FROM report.Assessment

WHERE AssessmentRunID = 938

)

**Budget verification:**

**Query 1:**

Select G.GroupName,A.Scenarioname,A.Serviceid,A.ServiceResourceID,

A.Assessmentsubcategoryid,B.TotalResourceCount,B.violatedResourcecount

from report.AssessmentScenarios A

INNER JOIN report.Assessment B

ON A.AssessmentScenarioID =B.AssessmentScenarioID

INNER JOIN report.AssessmentSubCategory C

ON A.AssessmentsubcategoryId =c.AssessmentSubCategoryID

INNER JOIN report.AssessmentGroup G WITH (NOLOCK)

ON G.AssessmentGroupID = A.AssessmentGroupID

where C.AssessmentsubcategoryName='Budget'

and B.AssessmentRunID = 938

and B.AssessmentStatus='completed'

Query 2:

SELECT

SC.AssessmentSubCategoryName

,COUNT(DISTINCT A.AssessmentID) PoliciesEvaluated

,SUM(CASE

WHEN ViolatedResourceCount > 0 THEN 1

ELSE 0

END) OpenRecommendation

FROM report.Assessment A WITH (NOLOCK)

INNER JOIN report.AssessmentRuns AR WITH (NOLOCK)

ON AR.AssessmentRunID = A.AssessmentRunID

INNER JOIN report.AssessmentScenarios S WITH (NOLOCK)

ON S.AssessmentScenarioID = A.AssessmentScenarioID

INNER JOIN report.AssessmentGroup G WITH (NOLOCK)

ON G.AssessmentGroupID = S.AssessmentGroupID

INNER JOIN report.AssessmentCategory C WITH (NOLOCK)

ON C.AssessmentCategoryID = S.AssessmentCategoryID

INNER JOIN report.AssessmentSubCategory SC WITH (NOLOCK)

ON SC.AssessmentSubCategoryID = S.AssessmentSubCategoryID

WHERE AR.AssessmentRunID = 938

AND SC.AssessmentSubCategoryName = 'Budget'

AND A.AssessmentStatus = 'Completed'

GROUP BY

SC.AssessmentSubCategoryName

**Potential cost savings:**

SELECT

RT.ReservationType [Resource]

,COUNT(\*) OpenRecommendation

,SUM(RI.EstimatedMonthlySavingsAmount) PotentialSavings

FROM report.RIRecommendation RI

INNER JOIN report.ServiceAccount SA

ON SA.ServiceAccountID = RI.ServiceAccountID

INNER JOIN report.RIOfferingClass RO

ON RI.RIOfferingClassID = RO.RIOfferingClassID

INNER JOIN report.ServiceRegion SR

ON SR.ServiceRegionID = RI.ServiceRegionID

INNER JOIN report.RISku SK

ON SK.RISkuID = RI.RISkuID

INNER JOIN report.RIType RT

ON RT.RITypeID = RI.RITypeID

WHERE SA.ServiceID = 11

AND Term = 1.0

AND LookBackPeriod = 30

AND RO.OfferingClass= 'No\_Upfront'

AND SA.ServiceAccountID = 3851

GROUP BY

RT.ReservationType

Inform

FinOps Maturity Assessment Evaluation

Select G.GroupName,A.Scenarioname,A.Serviceid,A.ServiceResourceID,

A.Assessmentsubcategoryid,B.TotalResourceCount,B.violatedResourcecount

,(

SELECT SUM(SavingPerMonth)

FROM report.AssessmentResources

WHERE AssessmentID = B.AssessmentID

) Savingspermonth

from report.AssessmentScenarios A

INNER JOIN report.Assessment B

ON A.AssessmentScenarioID =B.AssessmentScenarioID

INNER JOIN report.AssessmentSubCategory C

ON A.AssessmentsubcategoryId =c.AssessmentSubCategoryID

INNER JOIN report.AssessmentGroup G WITH (NOLOCK)

ON G.AssessmentGroupID = A.AssessmentGroupID

where C.AssessmentsubcategoryName='Underutilized'

and B.AssessmentRunID = 938

and B.AssessmentStatus='completed'

**Top product code:**

**To test:**

SELECT

ROW\_NUMBER() OVER (ORDER BY SUM(Cost) DESC) ROWNUM

,BC.BillingProductCode ProductCode

,SUM(Cost) Cost

FROM report.ResourceCostMonthlyV3 C WITH (NOLOCK)

INNER JOIN report.BillingProductCode BC WITH (NOLOCK)

ON BC.BillingProductCodeID = C.BillingProductCodeID

WHERE ServiceAccountID = 3851

AND BillDateKey = 20210901

AND isDeleted = 0

GROUP BY BC.BillingProductCode

**Used in report:**

SELECT

SNo

,ProductCode

,Cost

FROM [report].[CostInsightTopProductCode]

WHERE AssessmentRunID = 938

**Product category:**

SELECT ROW\_NUMBER() OVER (ORDER BY SUM(Cost) DESC) ROWNUM

,BC.ProductCategory

,SUM(Cost) Cost

FROM report.ResourceCostMonthlyV3 C WITH (NOLOCK)

INNER JOIN report.BillingProductCategory BC WITH (NOLOCK)

ON BC.BillingProductCategoryID = C.BillingProductCategoryID

WHERE ServiceAccountID = 3851

AND BillDateKey = 20210901

AND isDeleted = 0

GROUP BY BC.ProductCategory

**Region:**

SELECT ROW\_NUMBER() OVER (ORDER BY SUM(Cost) DESC) ROWNUM

,R.Region

,SUM(Cost) Cost

FROM report.ResourceCostMonthlyV3 C WITH (NOLOCK)

INNER JOIN report.ServiceRegion R WITH (NOLOCK)

ON R.ServiceRegionID = C.ServiceRegionID

WHERE ServiceAccountID = 4923

AND BillDateKey = 20210901

AND isDeleted = 0

GROUP BY R.Region

**Tags:**

SELECT TOP 10

ROW\_NUMBER() OVER (ORDER BY SUM(Cost) DESC)SNo

,T.TagKey TagName

,T.TagValue TagValue

,SUM(Cost) Cost

FROM report.CostTagMappingmonthly C WITH (NOLOCK)

INNER JOIN report.ResourceCostMonthlyV3 TM WITH (NOLOCK)

ON TM.ResourceCostMonthlyID = C.ResourceCostMonthlyID

INNER JOIN report.CostTagDaily T

ON T.CostTagID = C.CostTagID

WHERE ServiceAccountID = 4923

AND BillDateKey = 20210901

AND isDeleted = 0

GROUP BY

T.TagKey

,T.TagValue

ORDER BY Cost DESC

Potential Cost Avoidance – Resource Listing

**Policy Recommendation:**

**Get Policy recommendation id:**

Select top 10 \* from report.PolicyRecommendation where ServiceAccountID =3827

**Give Policy recommendation id and verify Recommendation:**

select top 10 \* from report.PolicyRecommendationDefinition

where PolicyRecommendationDefinitionID =4031

select top 10 \* from report.PolicyResourceRecommendation where ServiceAccountID =3827

and PolicyRecommendationID =1537

select top 10 \* from report.Policy where PolicyID =5075

Select top 10 \* from report.PolicyRecommendation where ServiceAccountID =3827

select top 10 \* from report.PolicyRecommendationDefinition

where PolicyRecommendationDefinitionID =4031

select top 10 \* from report.PolicyServiceResource

select \* from report.ServiceResource where ServiceResourceID = 946

**To get Assessment Subcategory name, scenario name, subscenario name, Total resource count, violated resource count , savings per month**

SELECT

CASE SC.AssessmentSubCategoryName

WHEN 'Config' THEN 'Configuration Changes'

ELSE SC.AssessmentSubCategoryName

END AssessmentSubCategoryName

,G.GroupName ScenarioName

,S.ScenarioName SubScenarioName

,SUM(CAST(TotalResourceCount AS INT)) TotalResourceCount

,SUM(CAST(ViolatedResourceCount AS INT)) ViolatedResourceCount

,COALESCE((

SELECT SUM(SavingPerMonth) FROM report.AssessmentResources

WHERE AssessmentID = A.AssessmentID

),0) SavingPerMonth

FROM report.Assessment A WITH (NOLOCK)

INNER JOIN report.AssessmentRuns AR WITH (NOLOCK)

ON AR.AssessmentRunID = A.AssessmentRunID

INNER JOIN report.AssessmentScenarios S WITH (NOLOCK)

ON S.AssessmentScenarioID = A.AssessmentScenarioID

INNER JOIN report.AssessmentGroup G WITH (NOLOCK)

ON G.AssessmentGroupID = S.AssessmentGroupID

INNER JOIN report.AssessmentCategory C WITH (NOLOCK)

ON C.AssessmentCategoryID = S.AssessmentCategoryID

INNER JOIN report.AssessmentSubCategory SC WITH (NOLOCK)

ON SC.AssessmentSubCategoryID = S.AssessmentSubCategoryID

WHERE AR.AssessmentRunID = 938

AND A.AssessmentStatus = 'Completed'

GROUP BY

CASE SC.AssessmentSubCategoryName

WHEN 'Config' THEN 'Configuration Changes'

ELSE SC.AssessmentSubCategoryName

END

,A.AssessmentID

,G.GroupName

,S.ScenarioName

Resource type scenario details: