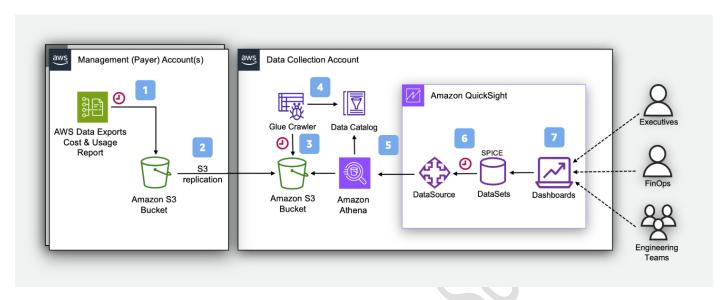
# Create AWS Cloud Intelligence Dashboard



Understand the flow of Cloud Intelligence Dashboard -

## 1. Daily Cost Report Delivery

 The AWS Cost & Usage Report (CUR) is sent every day to an Amazon S3 bucket in the management account.

## 2. Data Replication

This report is automatically copied to another S3 bucket in the data collection account.

#### 3. Daily Data Crawling

 An AWS Glue crawler runs once a day to find new or updated cost and usage data in the S3 bucket.

## 4. Updating the Data Catalog

• The Glue crawler updates a table in the Glue Data Catalog with the latest information about the data.

## 5. Querying Data with Athena

 Amazon Athena reads the cost and usage data from the S3 bucket using the structure defined in the Glue Data Catalog.

## 6. Using Athena Data in QuickSight

 Amazon QuickSight uses Athena as a data source to create datasets for analysis. Most datasets are stored in QuickSight's SPICE engine and updated daily.

## 7. Accessing Dashboards

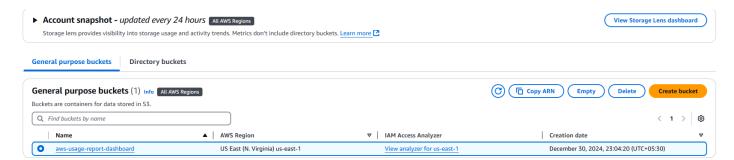
 Dashboards in QuickSight display cost and usage data, either directly from Athena or from cached SPICE datasets.

#### 8. User Access to Dashboards

 Teams or individuals can access these dashboards through QuickSight, using AWS IAM permissions or single sign-on (SSO) via a SAML provider.

## Follow the below steps to Implement Dashboard

Step 1 – Create S3 Bucket in Data Collection AWS Account



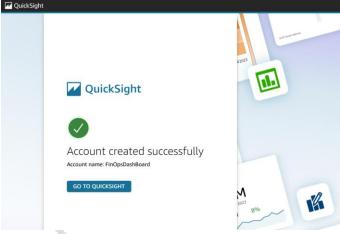
Step 2 - Configure bucket policy under the permission menu

#### Edit bucket policy Info

```
Bucket policy
The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. Learn more 🔼
arn:aws:s3:::aws-usage-report-dashboard
Policy
     3 ▼ "Statement": [
               "Sid": "AllowCURServiceAccess",
              "Principal": {
                "Service": "billingreports.amazonaws.com"
             },
"Action": "s3:PutObject",
   11
             "Resource": "arn:aws:s3:::aws-usage-report-dashboard/*",
"Condition": {
               "StringEquals": {
   13 ▼
                  "aws:SourceAccount": "590183893026"
   15
   16
   17
   18
19
```

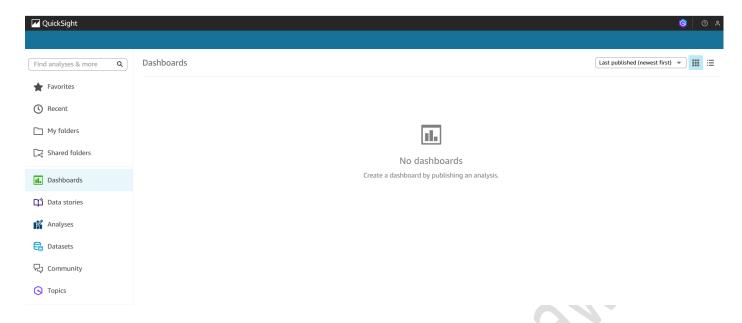
Note - Replace Bucket Name and AWS Account ID

Step 3 - Sign-In QuickSight in Data Collection AWS Account



Note - Select created S3 Bucket

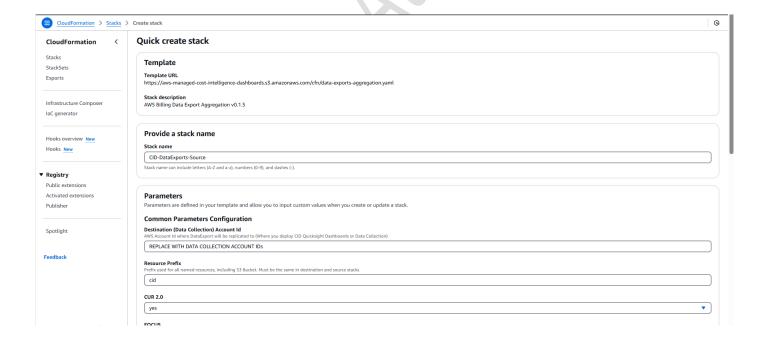
Step 4 - Verify No Dashboard available under QuickSight

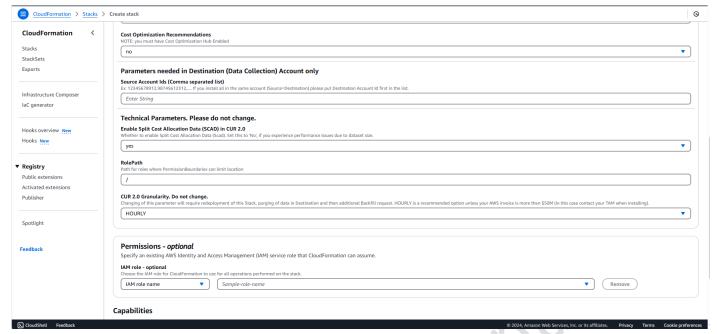


**Step 5 –** Create a Stack in Data Collection Account using the below link **Link-**

https://console.aws.amazon.com/cloudformation/home#/stacks/create/review?&templateURL=https://aws-managed-cost-intelligence-dashboards.s3.amazonaws.com/cfn/data-exports-aggregation.yaml&stackName=CID-DataExports-

Destination&param\_ManageCUR2=yes&param\_ManageCOH=no&param\_DestinationAccountId=REPLACE%20WITH%20DATA%20COLLECTION%20ACCOUNT%20ID&param\_SourceAccountIds=PUT%20HERE%20PAYER%20ACCOUNT%20IDS





**Note –** Replace Data Collection Account ID and Source ID (You can add multiple source account IDs by using comma separated)

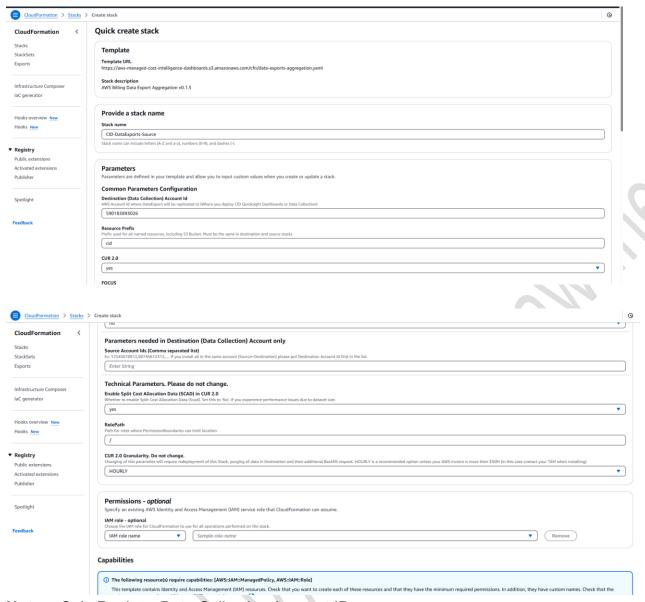
aws III Q Search (1) CloudFormation > Stacks > CID-DataExports-Destination ☐ Stacks (1) (C) CID-DataExports-Destination CloudFormation 
 Delete
 Update
 Stack actions ▼
 Create stack ▼
 Q Filter by stack name Active Stack details Stack info | Events - updated | Resources | Outputs | Parameters | Template Change sets View nested StackSets Timeline view - new Exports View root cause C Events (48) CID-DataExports-Destination Infrastructure Composer 2024-12-31 22:11:41 UTC+0530 (8) IaC generator Detailed status Hooks overview New 2024-12-31 22:12:22 UTC+0530 CID-DataExports-Destination CREATE COMPLETE Hooks New 2024-12-31 22:12:20 UTC+0530 CURTable 2024-12-31 22:12:20 UTC+0530 ▼ Registry Public extensions 2024-12-31 22:12:19 UTC+0530 COHTable CREATE IN PROGRESS Spotlight 2024-12-31 22:12:19 UTC+0530 CURCrawler CREATE COMPLETE 2024-12-31 22:12:18 UTC+0530 COHCrawler 2024-12-31 22:12:18 UTC+0530 CURCrawler ① CREATE\_IN\_PROGRESS Resource creation Initiated

**Step 6 –** Create a Stack in Data Collection Account using the below link **Link-**

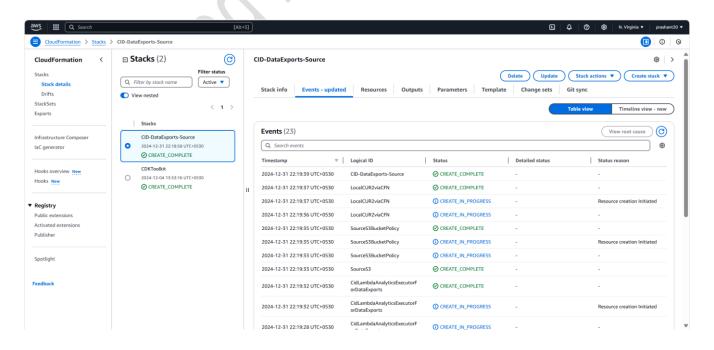
2024-12-31 22:12:18 LITC+0530

https://console.aws.amazon.com/cloudformation/home#/stacks/create/review?&templateURL=https://aws-managed-cost-intelligence-dashboards.s3.amazonaws.com/cfn/data-exports-aggregation.yaml&stackName=CID-DataExports-

Source&param\_ManageCUR2=yes&param\_ManageCOH=no&param\_DestinationAccountId=REP LACE%20WITH%20DATA%20COLLECTION%20ACCOUNT%20IDs&param\_SourceAccountIds=



Note - Only Replace Data Collection Account ID

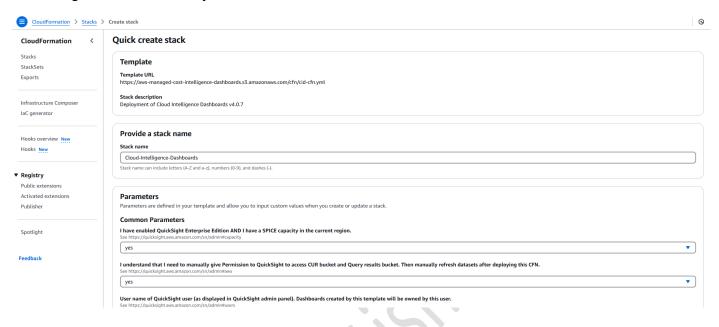


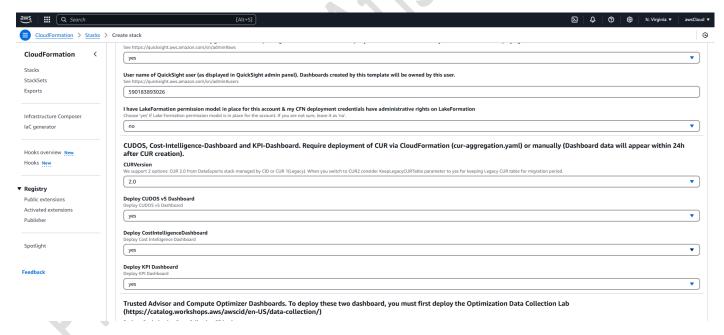
**Step 7 –** Deployed the Cloud Intelligence Dashboard on the Data collection account using stack *Prepared by – Atish Sonawane* 

#### Link -

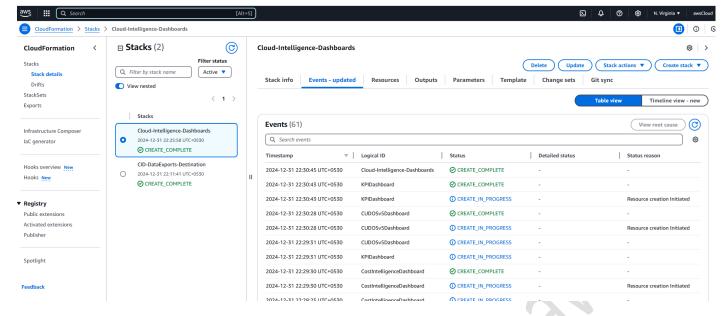
https://console.aws.amazon.com/cloudformation/home#/stacks/create/review?templateURL=https://aws-managed-cost-intelligence-dashboards.s3.amazonaws.com/cfn/cid-cfn.yml&stackName=Cloud-Intelligence-

Dashboards&param\_DeployCUDOSv5=yes&param\_DeployKPIDashboard=yes&param\_DeployCostIntelligenceDashboard=yes

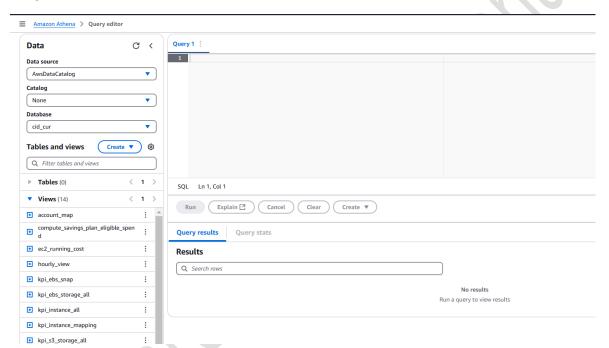




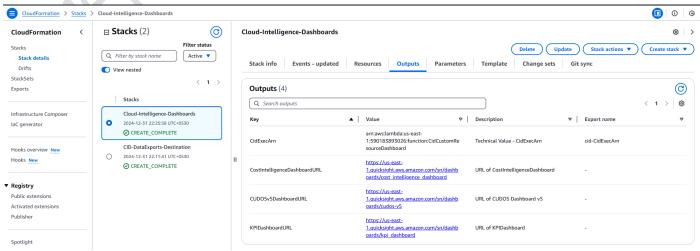
Note - For the required Dashboards mark as a 'yes'



**Step 8 –** Check Athena service where the Database will create with the schema

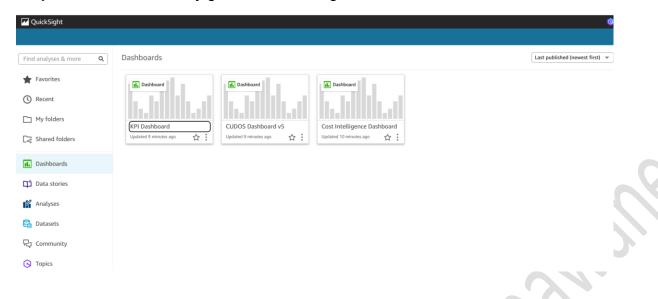


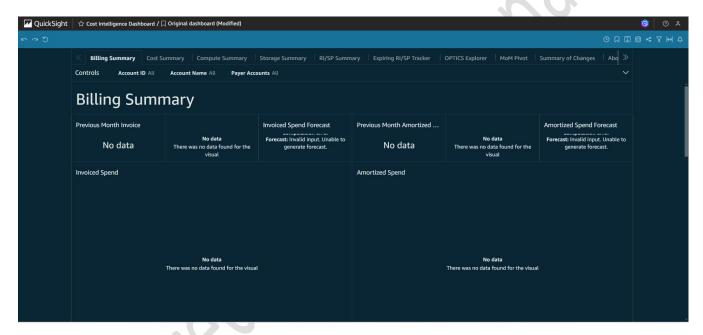
Step 9 - Dashboard links are available under the Outputs of Cloud Intelligence Dashboard Stack



Prepared by – Atish Sonawane

Step 10 - You can directly go to the QuickSight and check whether the Dashboard added or not





Note - Data will be updated after 24-48 hours.