
AWS
re:Invent

ANT 211 R

Developing with the Amazon QuickSight SDK

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AWS re:Invent

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aws

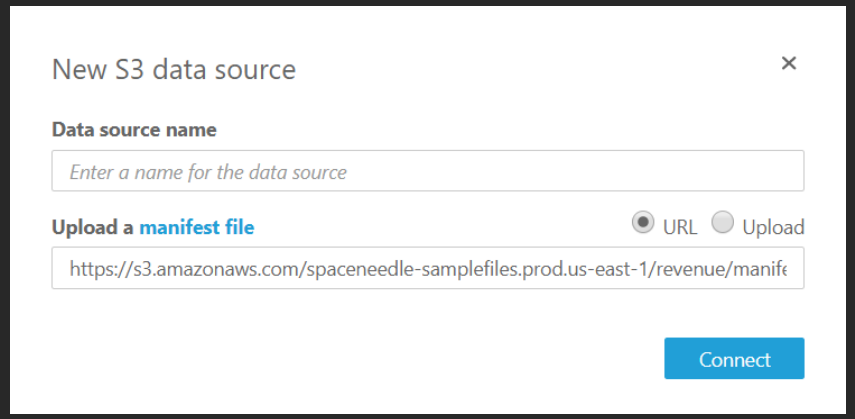
Scenario

SaaS provider
Provide dashboards for each customer
Each customer has multiple users
Data for all customers comes from one S3 bucket

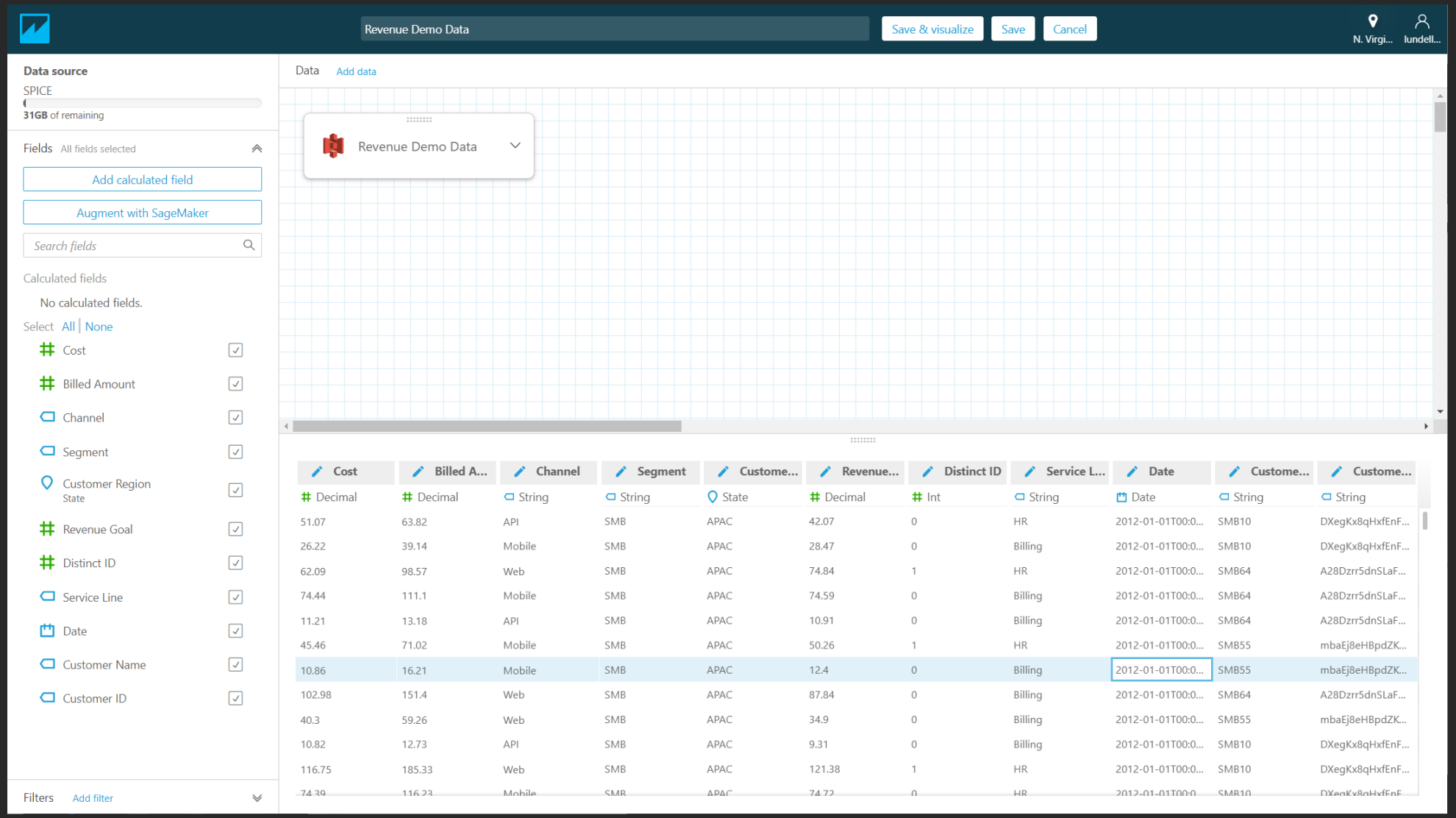
Outline

1. Create Data Source
2. Create Data Set
3. Create Analysis
4. Create Template from Analysis
5. Create Users & Groups
6. Create Data Set for each customer
7. Create Dashboard for each customer
8. Repeat for 2nd Dashboard shared with different Group

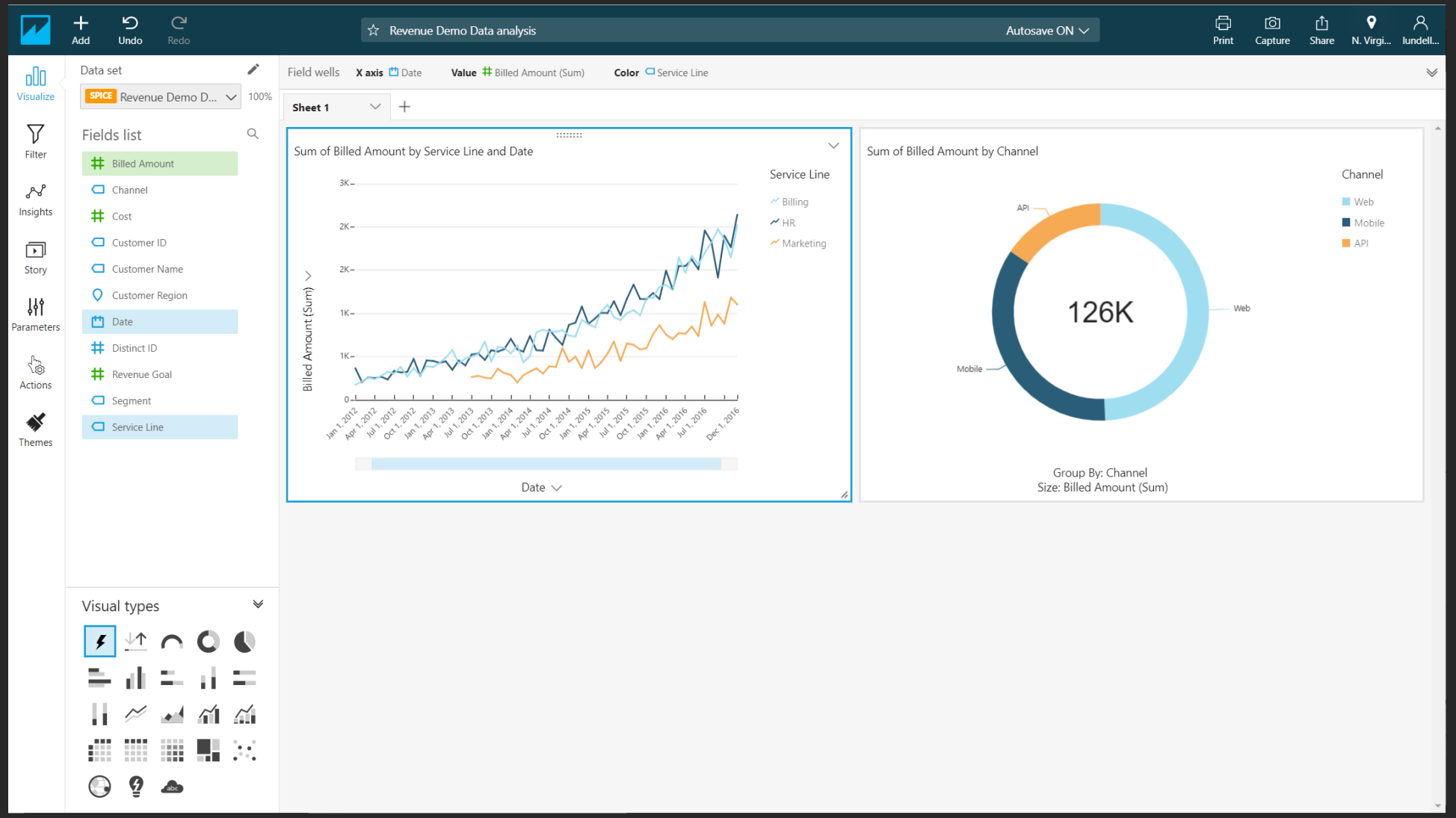
Create Data Source



Create Data Set



Create Analysis



Create Template from Analysis

```
aws quicksight create-template help
```

Create Template from Analysis

```
aws quicksight create-template --aws-account-id 123456789012
--template-id RevenueTemplate …
```

Create Template from Analysis

```
aws quicksight create-template --aws-account-id 123456789012
--template-id RevenueTemplate --source-entity
SourceAnalysis='{Arn=arn:aws:quicksight:us-east-
1:123456789012:analysis/bbd75755-6f16-440d-95fa-e7532545be99
…}'
```

Create Template from Analysis

```
aws quicksight create-template --aws-account-id 123456789012
--template-id RevenueTemplate --source-entity
SourceAnalysis='{Arn=arn:aws:quicksight:us-east-
1:123456789012:analysis/bbd75755-6f16-440d-95fa-e7532545be99,
DataSetReferences={DataSetPlaceholder=CustomerData,DataSetArn
=arn:aws:quicksight:us-east-1:123456789012:dataset/093522f1-
c53b-439d-891d-15f57967f205}}'
```

Create Template from Analysis

```
aws quicksight create-template --aws-account-id 123456789012
--template-id RevenueTemplate --source-entity
SourceAnalysis='{Arn=arn:aws:quicksight:us-east-
1:123456789012:analysis/bbd75755-6f16-440d-95fa-e7532545be99,
DataSetReferences={DataSetPlaceholder=CustomerData,DataSetArn
=arn:aws:quicksight:us-east-1:123456789012:dataset/093522f1-
c53b-439d-891d-15f57967f205}}'
```

Create Users & Groups

```
aws quicksight register-user --aws-account-id 123456789012
--namespace default --identity-type QUICKSIGHT
--user-role READER --user-name Alice --email alice@example.com
```

```
aws quicksight create-group --aws-account-id 123456789012
--namespace default --group-name ClientA
```

```
aws quicksight create-group-membership
--aws-account-id 123456789012 --namespace default
--group-name ClientA --member-name Alice
```

Create Data Set for each customer

```
aws quicksight describe-data-set
--aws-account-id 123456789012 --dataset-id 28c08cc4-d663-
446d-8e05-0e4cef313523
```

Save output to file

Remove everything except PhysicalTableMap, LogicalTableMap and ImportMode

Modify filter

```
aws quicksight create-data-set --aws-account-id 123456789012
--data-set-id CustomerADataSet --name "Customer A Revenue
Data" --cli-input-json file://input.json
```

Create Dashboard for each customer

```
aws quicksight create-dashboard help
```

Create Dashboard for each customer

```
aws quicksight create-dashboard --aws-account-id 123456789012
--dashboard-id CustomerADashboard --dashboard-name "Revenue
Dashboard"
```

Create Dashboard for each customer

```
aws quicksight create-dashboard --aws-account-id 123456789012
--dashboard-id CustomerADashboard --dashboard-name "Revenue
Dashboard" --source-entity
SourceTemplate='{Arn=arn:aws:quicksight:us-east-
1:123456789012:template/RevenueTemplate,
DataSetReferences={DataSetPlaceholder=CustomerData,DataSetArn
=arn:aws:quicksight:us-east-
1:123456789012:dataset/CustomerADataSet}}' …
```

Create Dashboard for each customer

```
aws quicksight create-dashboard --aws-account-id 123456789012
--dashboard-id CustomerADashboard --dashboard-name "Revenue
Dashboard" --source-entity
SourceTemplate='{Arn=arn:aws:quicksight:us-east-
1:123456789012:template/RevenueTemplate,
DataSetReferences={DataSetPlaceholder=CustomerData,DataSetArn
=arn:aws:quicksight:us-east-
1:123456789012:dataset/CustomerADataSet}}' --permissions
Principal=arn:aws:quicksight:us-east-
1:123456789012:user/default/Alice,Actions=quicksight:QueryDas
hboard,quicksight:ListDashboardVersions,quicksight:DescribeDa
shboard
```

Create Dashboard for each customer

```
aws quicksight create-dashboard --aws-account-id 123456789012
--dashboard-id CustomerADashboard --dashboard-name "Revenue
Dashboard" --source-entity
SourceTemplate='{Arn=arn:aws:quicksight:us-east-
1:1234567890 12:template/RevenueTemplate,
DataSetReferences={DataSetPlaceholder=CustomerData,DataSetArn
=arn:aws:quicksight:us-east-
1:1234567890 12:dataset/CustomerADataSet}}' --permissions
Principal=arn:aws:quicksight:us-east-
1:1234567890 12:user/default/Alice,Actions=quicksight:QueryDas
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```

Repeat for 2nd Dashboard shared with different Group

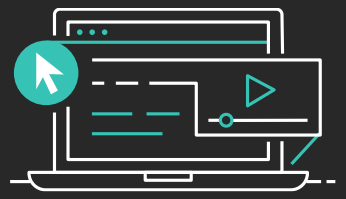
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