

Slide 1

Gautam Polavarapu

Gautam.Polavarapu@slalom.com

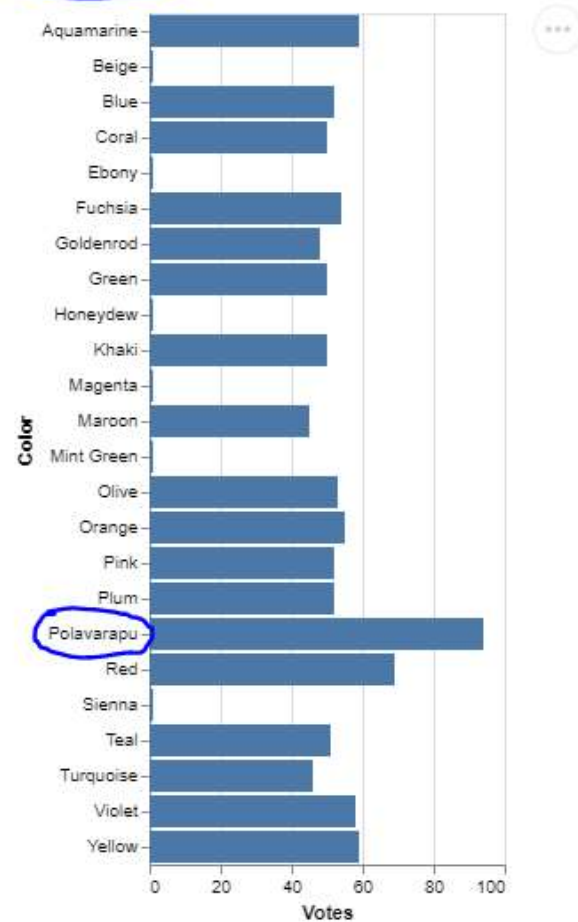
Date: 02/20/2020

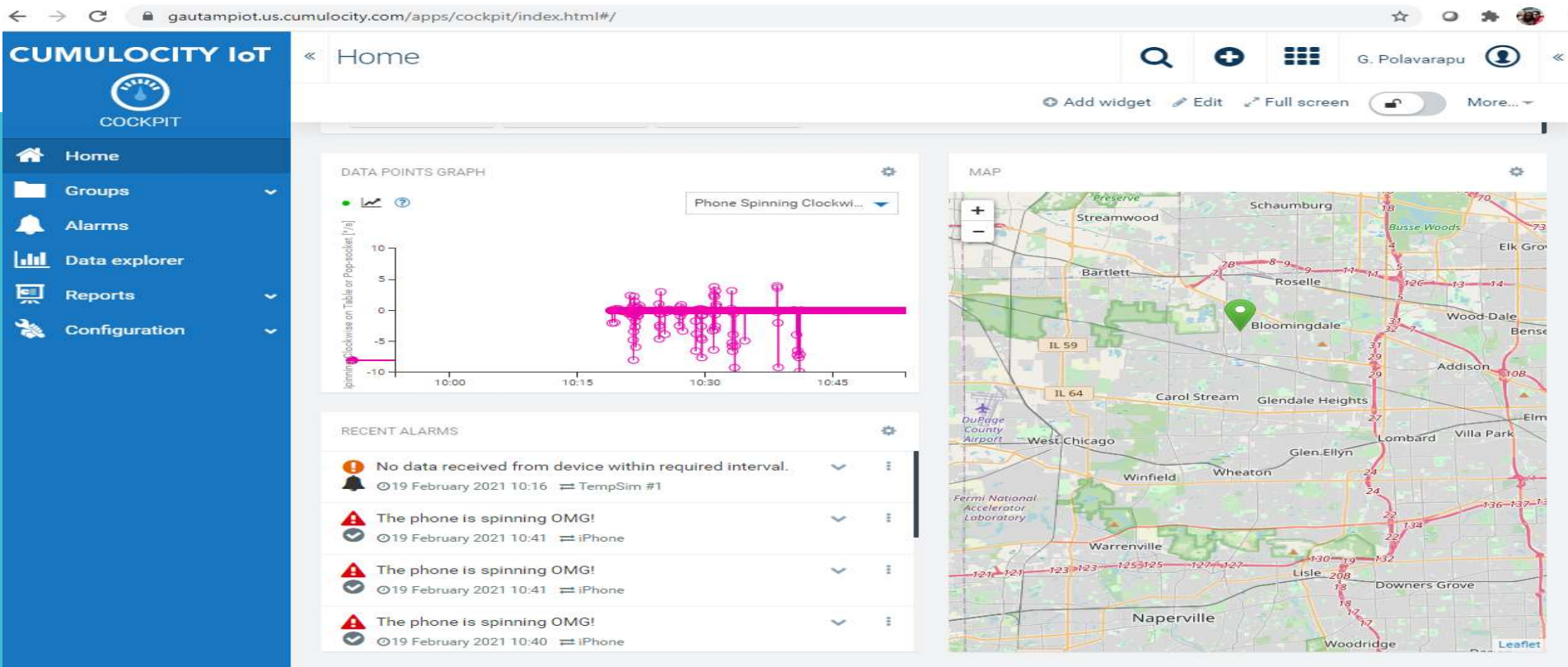


Slide 2

Python Web App screen with First Name in title and last name replacing Indigo

Gautam's Favorite Colors





Slide 3

Cumulocity dashboard with line graph showing a recently spun phone and a map zoomed OUT to the CITY level

<

Send Phone Spin Alarms to PubSub

GP

☐ off

Save

CONNECTORS

Alarm

publish

Execution History

Start Time	Status	Actions
19/02/2021 10:30:39 AM PST	Success	Export
19/02/2021 10:30:37 AM PST	Success	Export
19/02/2021 10:30:19 AM PST	Success	Export
19/02/2021 10:30:17 AM PST	Success	Export
19/02/2021 10:29:47 AM PST	Success	Export
19/02/2021 10:29:45 AM PST	Success	Export
19/02/2021 10:29:29 AM PST	Success	Export

1 - 15 of 50 items

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<

1

2

3

4

>

Slide 4

webMethods.io workflow with the Pub/Sub node marked "publish" in the middle

← → ↺ console.cloud.google.com/cloudpubsub/topic/detail/iot_data?project=crafty-biplane-305301&supportedpurview=project

Free trial status: \$299.81 credit and 90 days remaining - with a full account, you'll get unlimited access to all of Google Cloud Platform. DISMISS ACTIVATE

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Pub/Sub

Topics Subscriptions Snapshots Lite Topics Lite Subscriptions

← iot_data + PUBLISH MESSAGE VIEW MESSAGES + TRIGGER CLOUD FUNCTION IMPORT DELETE HIDE INFO PANEL

Topic details

Topic name projects/crafty-biplane-305301/topics/iot_data

1 hour 6 hours 1 day 7 days 30 days RESET ZOOM

Publish message request count

Requests/sec

0.25
0.20
0.15
0.10
0.05
0

12 PM 6 PM Fri 19 6 AM

Publish message operation count

Operations/sec

0.25
0.20
0.15
0.10
0.05
0

12 PM 6 PM Fri 19 6 AM

iot_data

PERMISSIONS LABELS STORAGE POLICY

Edit or delete permissions below or "Add Member" to grant new + ADD MEMBER

Show inherited permissions

Filter Filter tree

Role / Member	Inheritance
▶ Cloud Dataflow Service Agent (1)	
▶ Editor (2)	
▶ Owner (1)	

Slide 5

Pub/Sub Topic 1 (where message data is flowing) and graphs reflect the movement of the data

← → ↻ console.cloud.google.com/dataflow/jobs/us-central1/2021-02-19_08_02_51-137632274175687027;step=;mainTab=JOB_GRAPH?project=crafty-biplane-305301&supportedpurview=project ☆ ⚙ ⚙ ⚙ ⚙

📦 Free trial status: \$299.81 credit and 90 days remaining - with a full account, you'll get unlimited access to all of Google Cloud Platform. DISMISS ACTIVATE

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Dataflow PubSubStream CLONE STOP LOGS SHARE MAX TIME

Jobs Snapshots Notebooks

JOB GRAPH JOB METRICS

Read PubSub Events
Running
0 sec
1 stage

Map to Archive
0 elements/s
0 sec
1 stage

5m Window
0 elements/s
0 sec
1 stage

Write File(s)
0 elements/s
1 sec
5 stages

Job info

Job name	PubSubStream
Job ID	2021-02-19_08_02_51-137632274175687027
Job type	Streaming
Job status	Running
SDK version	Apache Beam SDK for Java 2.25.0
Job region	us-central1
Worker location	us-central1-f
Current workers	2
Latest worker status	Autoscaling: Raised the number of workers to 2 so that the pipeline can catch up with its backlog and keep up with its input rate.
Start time	February 19, 2021 at 10:02:53 AM GMT-6
Elapsed time	6 min 56 sec
Encryption type	Google-managed key

Resource metrics

Current vCPUs	8
Total vCPU time	0.811 vCPU hr

Slide 6

Google Dataflow job (green boxes) that is moving data from Pub/Sub into Google Storage

← Bucket details

Updated just now

gp_snowflake_handson_lab_bucket

OBJECTS CONFIGURATION PERMISSIONS RETENTION LIFECYCLE

Buckets > gp_snowflake_handson_lab_bucket > **iot_files**

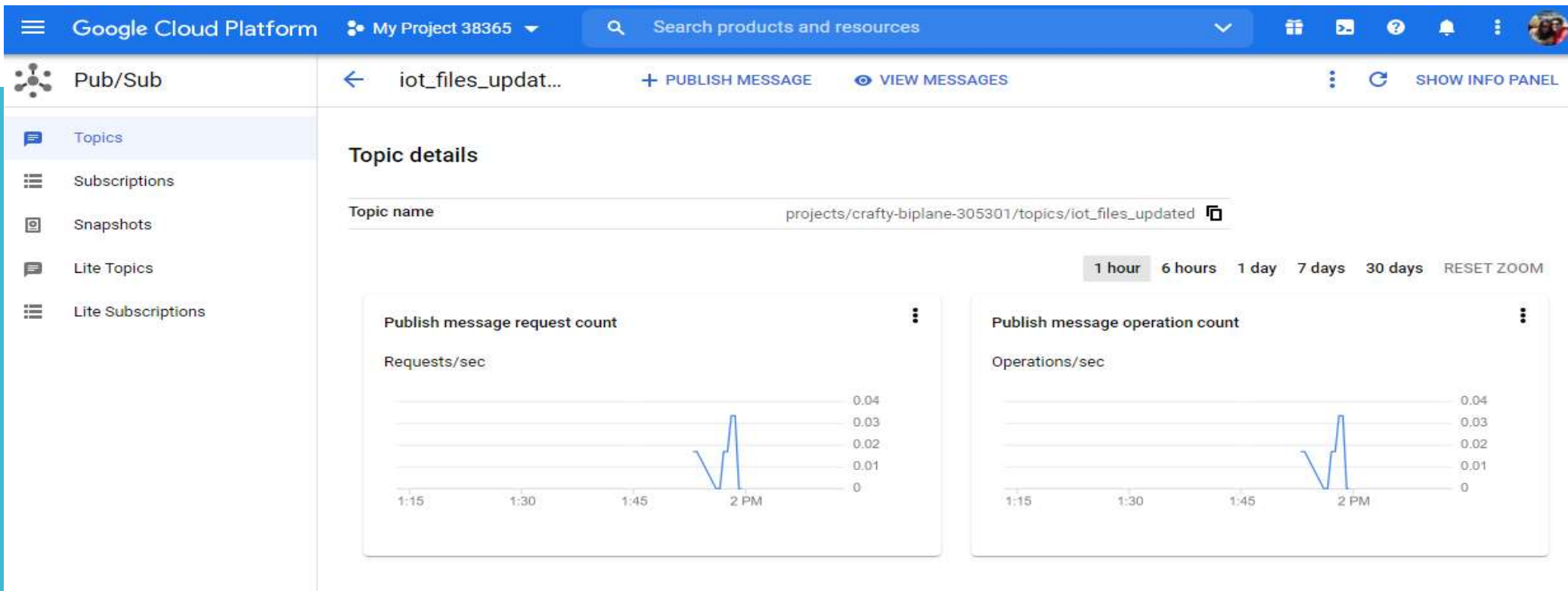
[UPLOAD FILES](#)
[UPLOAD FOLDER](#)
[CREATE FOLDER](#)
[MANAGE HOLDS](#)
[DOWNLOAD](#)
[DELETE](#)

Filter by name prefix only Filter Filter objects and folders

<input type="checkbox"/>	Name	Size	Type	Storage class	Last modified	Public access	Encryption	Holds	
<input type="checkbox"/>	<code>iot_files_sample_output.avro</code>	917 B	application/octet-stream	Standard	Feb 18, 2021, ...	Not public	Google-managed key	None	
<input type="checkbox"/>	<code>output2021-02-19T03:45:00.000Z-2021-02-19T03:46:00.000Z-2021-02-19T03:47:00.000Z-2021-02-19T03:48:00.000Z-2021-02-19T03:49:00.000Z-2021-02-19T03:50:00.000Z-2021-02-19T03:51:00.000Z-2021-02-19T03:52:00.000Z-2021-02-19T03:53:00.000Z-2021-02-19T03:54:00.000Z-2021-02-19T03:55:00.000Z-2021-02-19T03:56:00.000Z-2021-02-19T03:57:00.000Z-2021-02-19T03:58:00.000Z-2021-02-19T03:59:00.000Z-2021-02-19T04:00:00.000Z-2021-02-19T04:01:00.000Z-2021-02-19T04:02:00.000Z-2021-02-19T04:03:00.000Z-2021-02-19T04:04:00.000Z-2021-02-19T04:05:00.000Z-2021-02-19T04:06:00.000Z-2021-02-19T04:07:00.000Z-2021-02-19T04:08:00.000Z-2021-02-19T04:09:00.000Z-2021-02-19T04:10:00.000Z-2021-02-19T04:11:00.000Z-2021-02-19T04:12:00.000Z-2021-02-19T04:13:00.000Z-2021-02-19T04:14:00.000Z-2021-02-19T04:15:00.000Z-2021-02-19T04:16:00.000Z-2021-02-19T04:17:00.000Z-2021-02-19T04:18:00.000Z-2021-02-19T04:19:00.000Z-2021-02-19T04:20:00.000Z-2021-02-19T04:21:00.000Z-2021-02-19T04:22:00.000Z-2021-02-19T04:23:00.000Z-2021-02-19T04:24:00.000Z-2021-02-19T04:25:00.000Z-2021-02-19T04:26:00.000Z-2021-02-19T04:27:00.000Z-2021-02-19T04:28:00.000Z-2021-02-19T04:29:00.000Z-2021-02-19T04:30:00.000Z-2021-02-19T04:31:00.000Z-2021-02-19T04:32:00.000Z-2021-02-19T04:33:00.000Z-2021-02-19T04:34:00.000Z-2021-02-19T04:35:00.000Z-2021-02-19T04:36:00.000Z-2021-02-19T04:37:00.000Z-2021-02-19T04:38:00.000Z-2021-02-19T04:39:00.000Z-2021-02-19T04:40:00.000Z-2021-02-19T04:41:00.000Z-2021-02-19T04:42:00.000Z-2021-02-19T04:43:00.000Z-2021-02-19T04:44:00.000Z-2021-02-19T04:45:00.000Z-2021-02-19T04:46:00.000Z-2021-02-19T04:47:00.000Z-2021-02-19T04:48:00.000Z-2021-02-19T04:49:00.000Z-2021-02-19T04:50:00.000Z-2021-02-19T04:51:00.000Z-2021-02-19T04:52:00.000Z-2021-02-19T04:53:00.000Z-2021-02-19T04:54:00.000Z-2021-02-19T04:55:00.000Z-2021-02-19T04:56:00.000Z-2021-02-19T04:57:00.000Z-2021-02-19T04:58:00.000Z-2021-02-19T04:59:00.000Z-2021-02-19T05:00:00.000Z-2021-02-19T05:01:00.000Z-2021-02-19T05:02:00.000Z-2021-02-19T05:03:00.000Z-2021-02-19T05:04:00.000Z-2021-02-19T05:05:00.000Z-2021-02-19T05:06:00.000Z-2021-02-19T05:07:00.000Z-2021-02-19T05:08:00.000Z-2021-02-19T05:09:00.000Z-2021-02-19T05:10:00.000Z-2021-02-19T05:11:00.000Z-2021-02-19T05:12:00.000Z-2021-02-19T05:13:00.000Z-2021-02-19T05:14:00.000Z-2021-02-19T05:15:00.000Z-2021-02-19T05:16:00.000Z-2021-02-19T05:17:00.000Z-2021-02-19T05:18:00.000Z-2021-02-19T05:19:00.000Z-2021-02-19T05:20:00.000Z-2021-02-19T05:21:00.000Z-2021-02-19T05:22:00.000Z-2021-02-19T05:23:00.000Z-2021-02-19T05:24:00.000Z-2021-02-19T05:25:00.000Z-2021-02-19T05:26:00.000Z-2021-02-19T05:27:00.000Z-2021-02-19T05:28:00.000Z-2021-02-19T05:29:00.000Z-2021-02-19T05:30:00.000Z-2021-02-19T05:31:00.000Z-2021-02-19T05:32:00.000Z-2021-02-19T05:33:00.000Z-2021-02-19T05:34:00.000Z-2021-02-19T05:35:00.000Z-2021-02-19T05:36:00.000Z-2021-02-19T05:37:00.000Z-2021-02-19T05:38:00.000Z-2021-02-19T05:39:00.000Z-2021-02-19T05:40:00.000Z-2021-02-19T05:41:00.000Z-2021-02-19T05:42:00.000Z-2021-02-19T05:43:00.000Z-2021-02-19T05:44:00.000Z-2021-02-19T05:45:00.000Z-2021-02-19T05:46:00.000Z-2021-02-19T05:47:00.000Z-2021-02-19T05:48:00.000Z-2021-02-19T05:49:00.000Z-2021-02-19T05:50:00.000Z-2021-02-19T05:51:00.000Z-2021-02-19T05:52:00.000Z-2021-02-19T05:53:00.000Z-2021-02-19T05:54:00.000Z-2021-02-19T05:55:00.000Z-2021-02-19T05:56:00.000Z-2021-02-19T05:57:00.000Z-2021-02-19T05:58:00.000Z-2021-02-19T05:59:00.000Z-2021-02-19T06:00:00.000Z-2021-02-19T06:01:00.000Z-2021-02-19T06:02:00.000Z-2021-02-19T06:03:00.000Z-2021-02-19T06:04:00.000Z-2021-02-19T06:05:00.000Z-2021-02-19T06:06:00.000Z-2021-02-19T06:07:00.000Z-2021-02-19T06:08:00.000Z-2021-02-19T06:09:00.000Z-2021-02-19T06:10:00.000Z-2021-02-19T06:11:00.000Z-2021-02-19T06:12:00.000Z-2021-02-19T06:13:00.000Z-2021-02-19T06:14:00.000Z-2021-02-19T06:15:00.000Z-2021-02-19T06:16:00.000Z-2021-02-19T06:17:00.000Z-2021-02-19T06:18:00.000Z-2021-02-19T06:19:00.000Z-2021-02-19T06:20:00.000Z-2021-02-19T06:21:00.000Z-2021-02-19T06:22:00.000Z-2021-02-19T06:23:00.000Z-2021-02-19T06:24:00.000Z-2021-02-19T06:25:00.000Z-2021-02-19T06:26:00.000Z-2021-02-19T06:27:00.000Z-2021-02-19T06:28:00.000Z-2021-02-19T06:29:00.000Z-2021-02-19T06:30:00.000Z-2021-02-19T06:31:00.000Z-2021-02-19T06:32:00.000Z-2021-02-19T06:33:00.000Z-2021-02-19T06:34:00.000Z-2021-02-19T06:35:00.000Z-2021-02-19T06:36:00.000Z-2021-02-19T06:37:00.000Z-2021-02-19T06:38:00.000Z-2021-02-19T06:39:00.000Z-2021-02-19T06:40:00.000Z-2021-02-19T06:41:00.000Z-2021-02-19T06:42:00.000Z-2021-02-19T06:43:00.000Z-2021-02-19T06:44:00.000Z-2021-02-19T06:45:00.000Z-2021-02-19T06:46:00.000Z-2021-02-19T06:47:00.000Z-2021-02-19T06:48:00.000Z-2021-02-19T06:49:00.000Z-2021-02-19T06:50:00.000Z-2021-02-19T06:51:00.000Z-2021-02-19T06:52:00.000Z-2021-02-19T06:53:00.000Z-2021-02-19T06:54:00.000Z-2021-02-19T06:55:00.000Z-2021-02-19T06:56:00.000Z-2021-02-19T06:57:00.000Z-2021-02-19T06:58:00.000Z-2021-02-19T06:59:00.000Z-2021-02-19T07:00:00.000Z-2021-02-19T07:01:00.000Z-2021-02-19T07:02:00.000Z-2021-02-19T07:03:00.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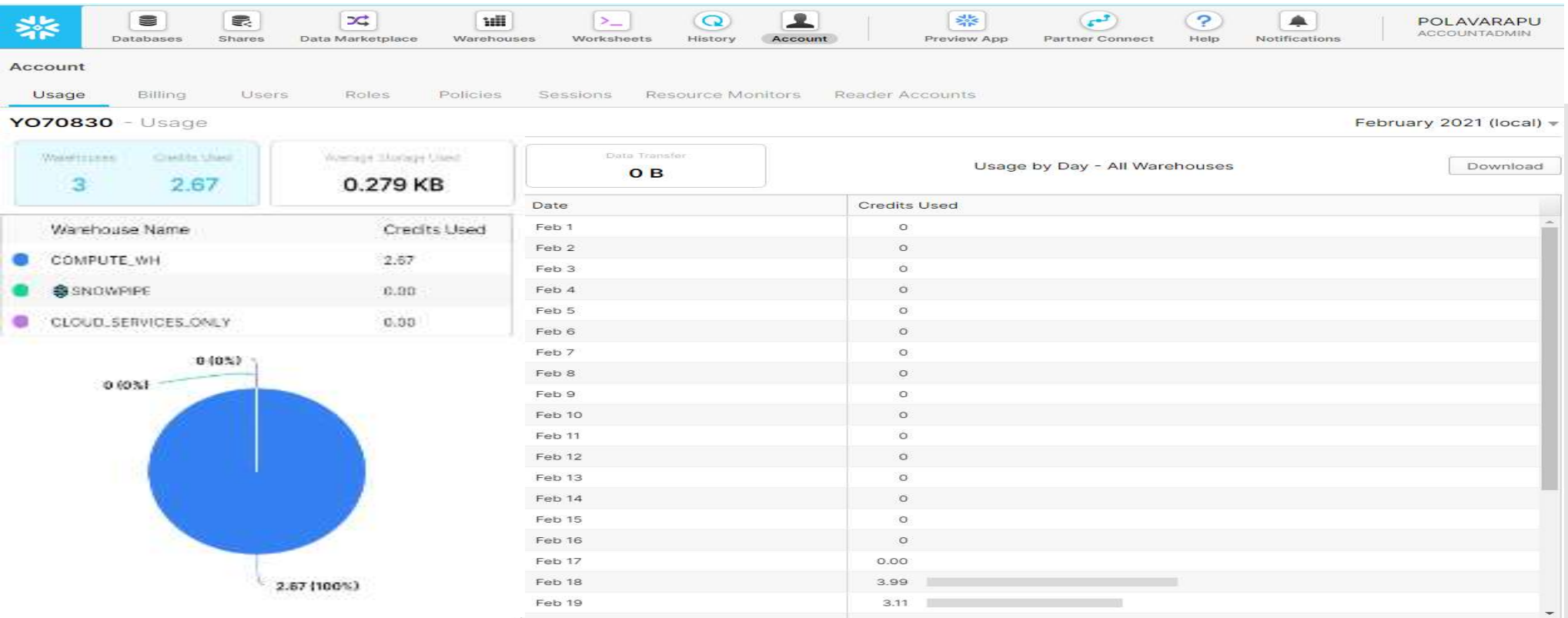
Slide 7

Google bucket with a list of files



Slide 8

Pub/Sub Topic 2



Slide 9

Snowflake Account Usage screen indicating that a Snowpipe is running or was running recently

Navigation bar: Data Warehouse, Shares, Data Marketplace, Warehouses, Worksheets, History, Account, Preview App, Partner Connect, Help, Notifications. User: POLAVARAPU ACCOUNTADMIN.

Worksheet tabs: New Worksheet, New Worksheet, New Worksheet.

Find database objects: DEMO_DB, INFORMATION_SCHEMA, PUBLIC, Tables: COLORS, IOT_AVRO_DATA, SIMULATED_TEMPS, YEAR_DAYS, No Views in this Schema, SNOWFLAKE_SAMPLE_DATA, UTIL_DB.

Query Editor: Run, All Queries, Saved 3 seconds ago. Query: `select SYSTEM$PIPE_STATUS('MySnowPipe');`

Results: Data Preview. Query: SQL. 135ms. 1 rows. Filter result... Copy. Columns.

Row	SYSTEM\$PIPE_STATUS('MYSNOWPIPE')
1	{\"executionState\": \"RUNNING\", \"pendingFileCount\": 0, \"notificationChannelName\": \"projects/iot-snowflake/subscriptions/get_updated_file_info\", \"numOutstandingMessagesOnChannel\": 1, \"lastReceivedMessageTimeSta...

Slide 10

SYSTEM\$pipe_status command

The screenshot displays a data platform interface with a top navigation bar containing icons for Databases, Shares, Data Marketplace, Warehouses, Worksheets, History, Account, Preview App, Partner Connect, Help, and Notifications. The user is logged in as POLAVARAPU ACCOUNTADMIN.

The main workspace shows a query execution environment. On the left, a sidebar lists database objects, including a table named `IOT_AVRO_DATA`. The central area contains a query editor with the following SQL statement:

```
1 select * from IOT_AVRO_DATA
```

Below the query editor, a "Details" modal is open, displaying the JSON structure of the query results:

```
1 {
2   "attributes": {
3     "alarm_message": "The phone is spinning OMG!"
4   },
5   "message": "",
6   "timestamp": 1613759271352
7 }
```

The modal includes a "Done" button at the bottom right. In the background, the "Results" tab is visible, showing a table with columns "Row" and "Message". The first row (Row 360) contains the JSON data shown in the modal. Subsequent rows (361-364) show similar data with different timestamps.

Slide 11

shows a spin alarm message stored in your `IOT_AVRO_DATA` table