

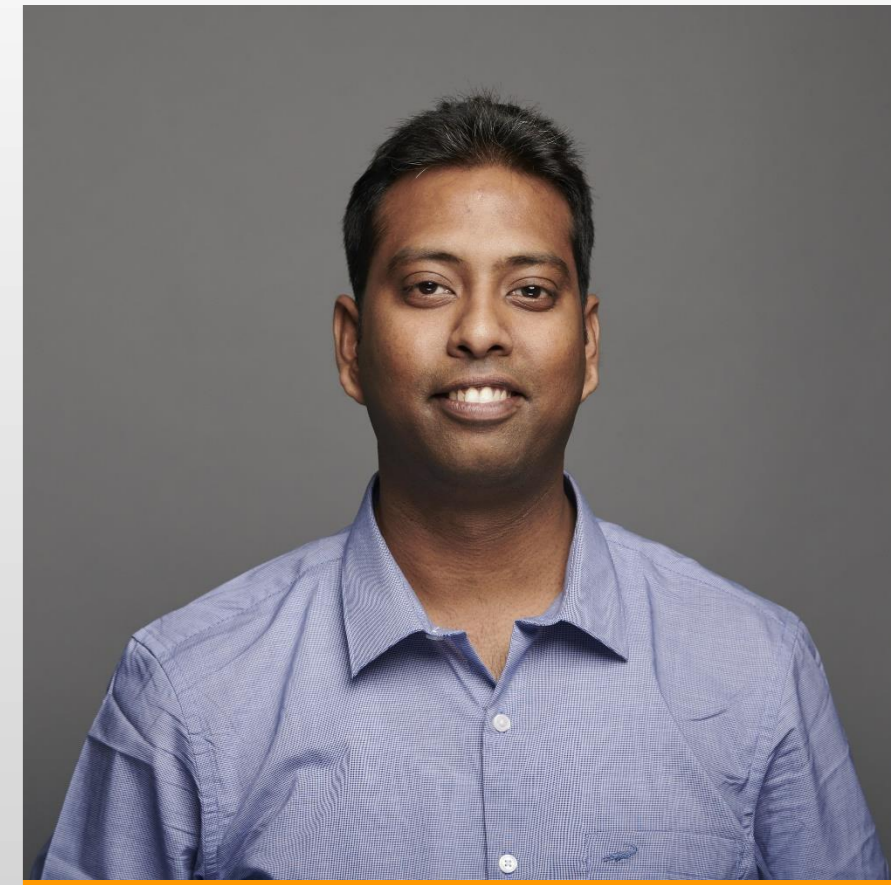
TAP TO GO
BACK TO
KIOSK MENU

SAS[®] GLOBAL FORUM 2020

MARCH 29 - APRIL 1
WASHINGTON, DC



USERS PROGRAM



Sanket Mitra

Abstract

Introduction

GCDS

SAML SSO

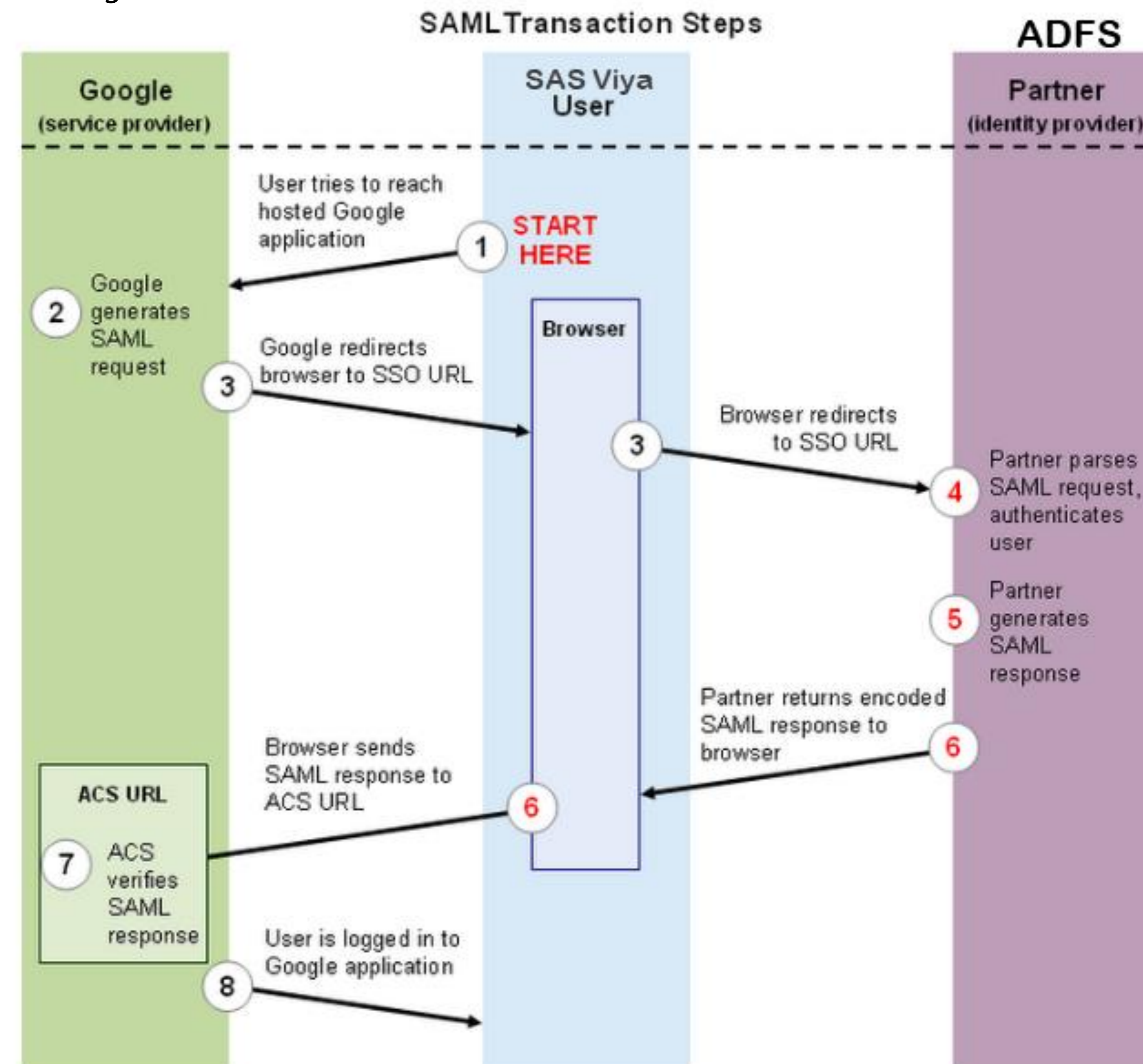
Results

Conclusion

Customers who are moving into Cloud infrastructure (Google Cloud Platform) and deploying SAS® Viya® application often say that they already have a well-established way to manage their users and want to keep using their existing Identity Management System.

In this presentation, we will walk you through its implementation and discuss the best ways to provision or sync users when using your existing Identity Management System with GCP, integrating it with SAS® Viya® application through the SAML authentication. This will help you to consider the security on CAS for GCP data sources such as Google BigQuery, Google Cloud Storage and Google Bigtable.

Flow Diagram



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Introduction

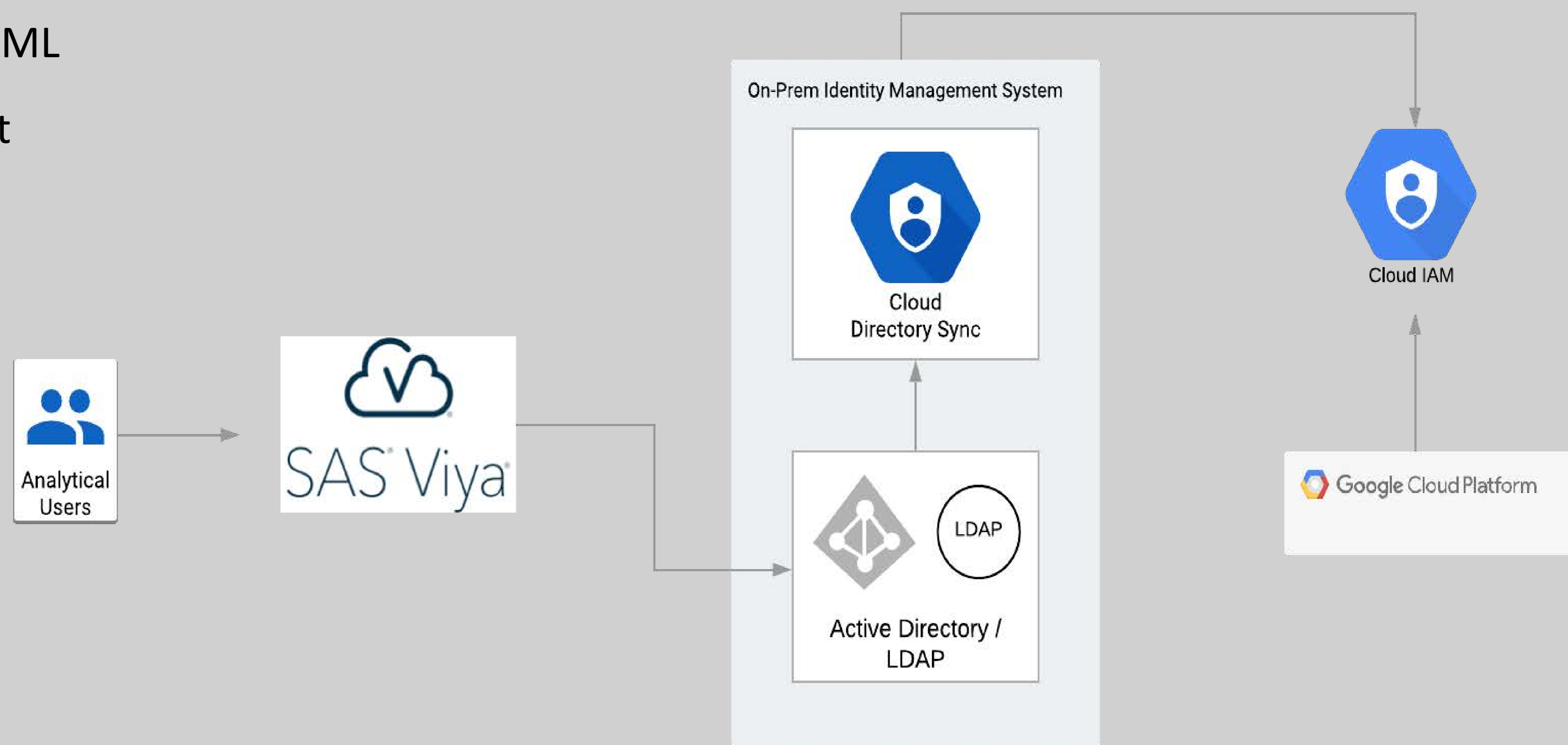
GCP uses Google Accounts for authentication and access management. As a prerequisite for access to GCP resources, SAS® Viya® users must have a Google Identity set up. This requirement does not preclude you from managing your identities as you do today and having one place to manage your identities. This e-poster will describe how to use the Google's Cloud Identity, so that the customers can continue to manage their SAS® Viya® application users using the existing Identity Management System when working with GCP.

One should have a working knowledge of the following to configure SAS Viya® using an existing Identity Management System with Google Cloud Platform.

- SAS Viya® Authentication with SAML
- Setup GCP Cloud Identity Account
- Sync Identities
- Configure SAML SSO

Objective

- Seamless access to GCP data sources from SAS Viya with a single authentication.
- Secured channel to access GCP data sources from the analytical platform.



Google Cloud Directory Sync

Google Cloud Directory Sync enables administrators to synchronize users, groups and other data from an Active Directory/LDAP service to their Google Cloud domain directory.

How GCDS Work?

- Data is exported in a list from your LDAP server or Active Directory. You set up rules to specify how this list is generated.
- GCDS connects to the Google domain and generates a list of Google users, groups, and shared contacts that you specify.
- GCDS compares these lists and updates your Google domain to match the data.
- When the synchronization is complete, a report is emailed to any addresses that you specify.

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Google Cloud Directory Sync

Google Domain Configuration

LDAP Configuration

General Settings

Org Units

User Accounts

Groups

Notifications

Logging

Sync

Validation Results & Sync

	Validation results
Google Domain Configuration	✓
LDAP Configuration	✓
General Settings	✓
Org Units	✓
User Accounts	✓
Groups	✓
Notifications	✓
Logging	✓
Sync	✓

Google Cloud Directory Sync 1/22/20 10:29 PM - SUCCESS (0 errors, 0 warnings)

To: Sanket Mitra
Create: 0

Successfully modified 1 groups

Group: "XXXXXXXXXXXXXXXXXXXX"

Added user "XXXXXXXXXXXXXXXXXXXX"

Added user "XXXXXXXXXXXXXXXXXXXX"

Created 1 new groups

Group: "XXXXXXXXXXXXXXXXXXXX"

Successful identity mapped group changes:

Deleted: 0

Modified: 0

Created: 0

Failures:

Delete: 0

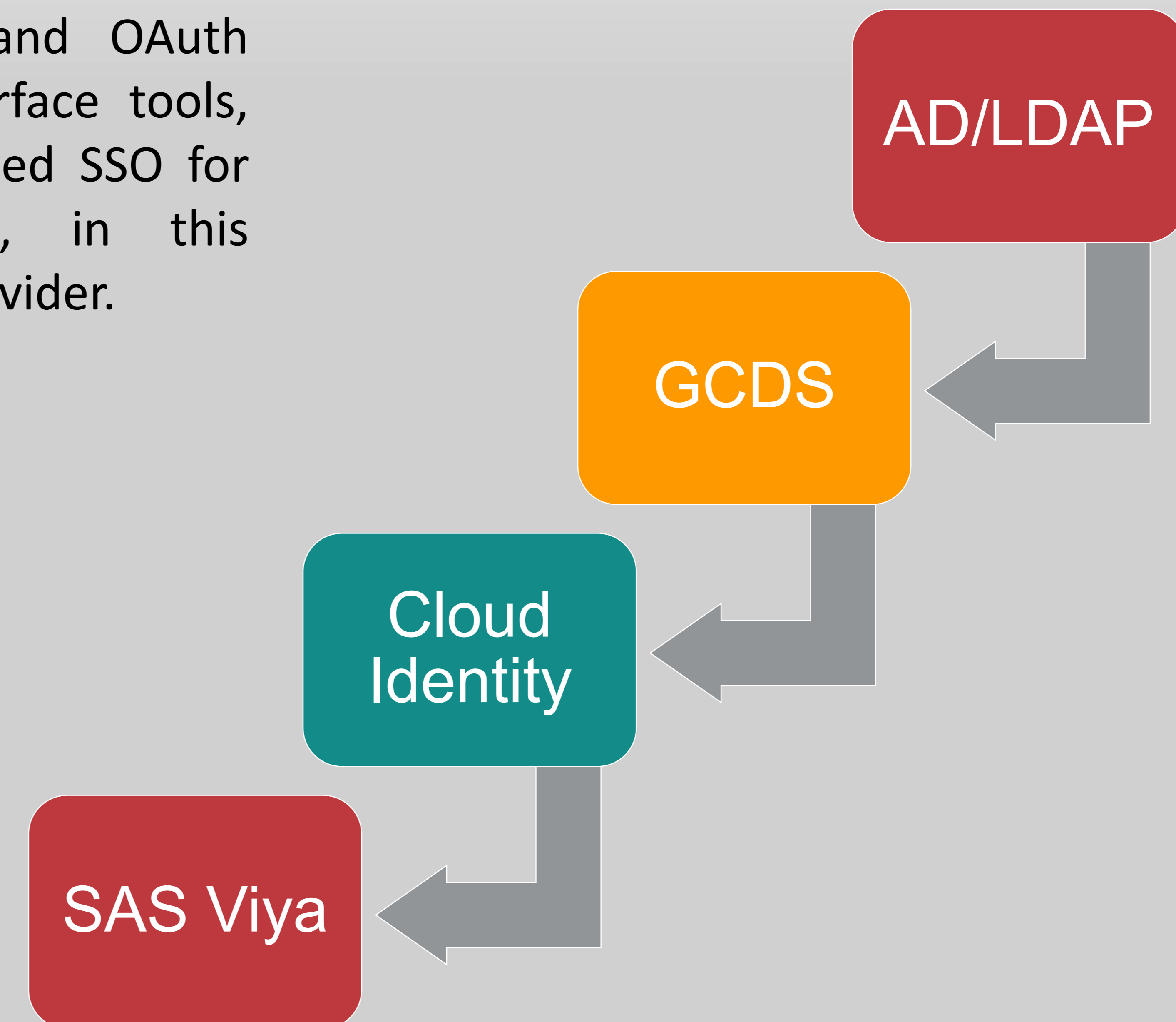
Modify: 0

Create: 0

Configure SAML SSO

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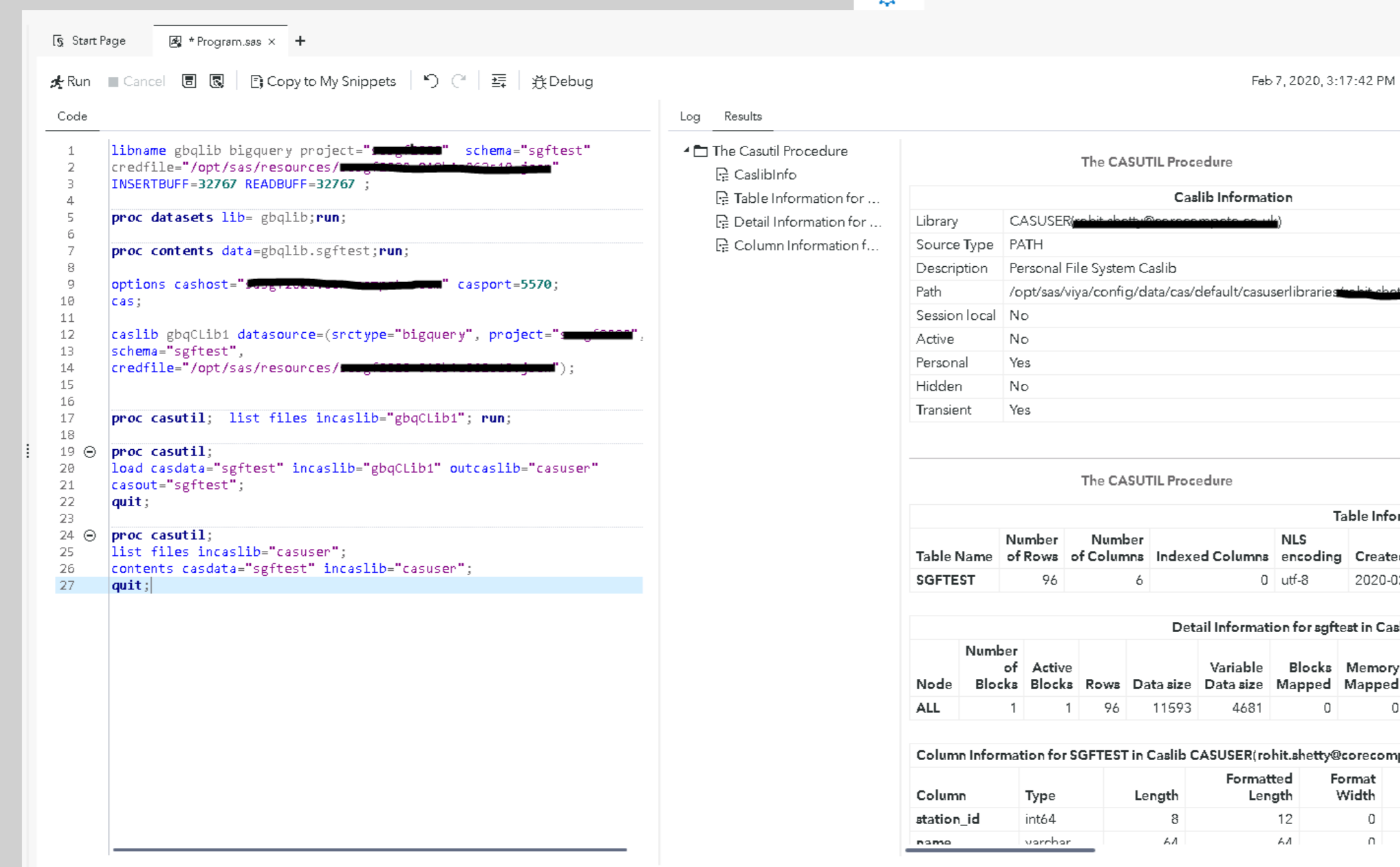
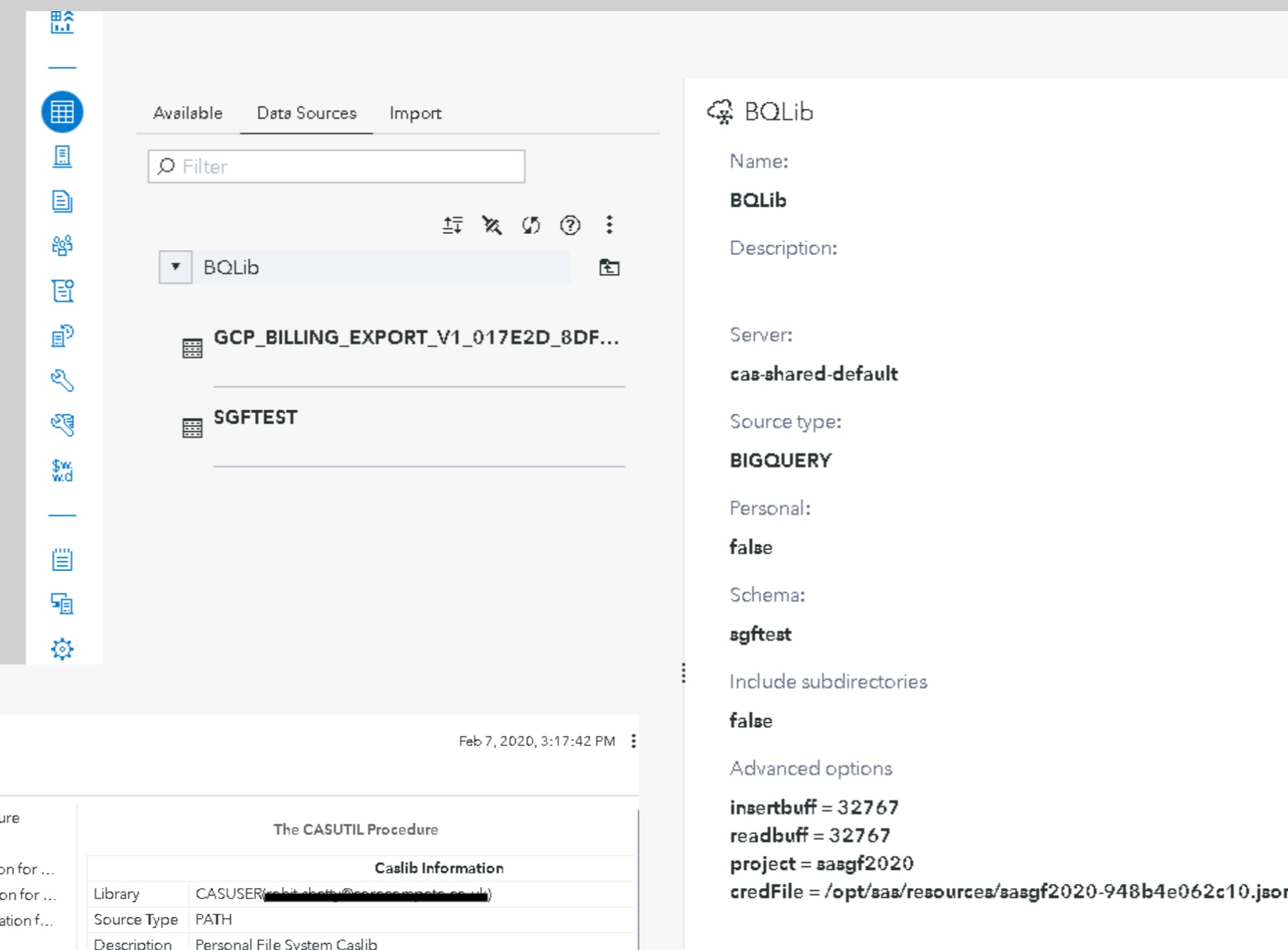
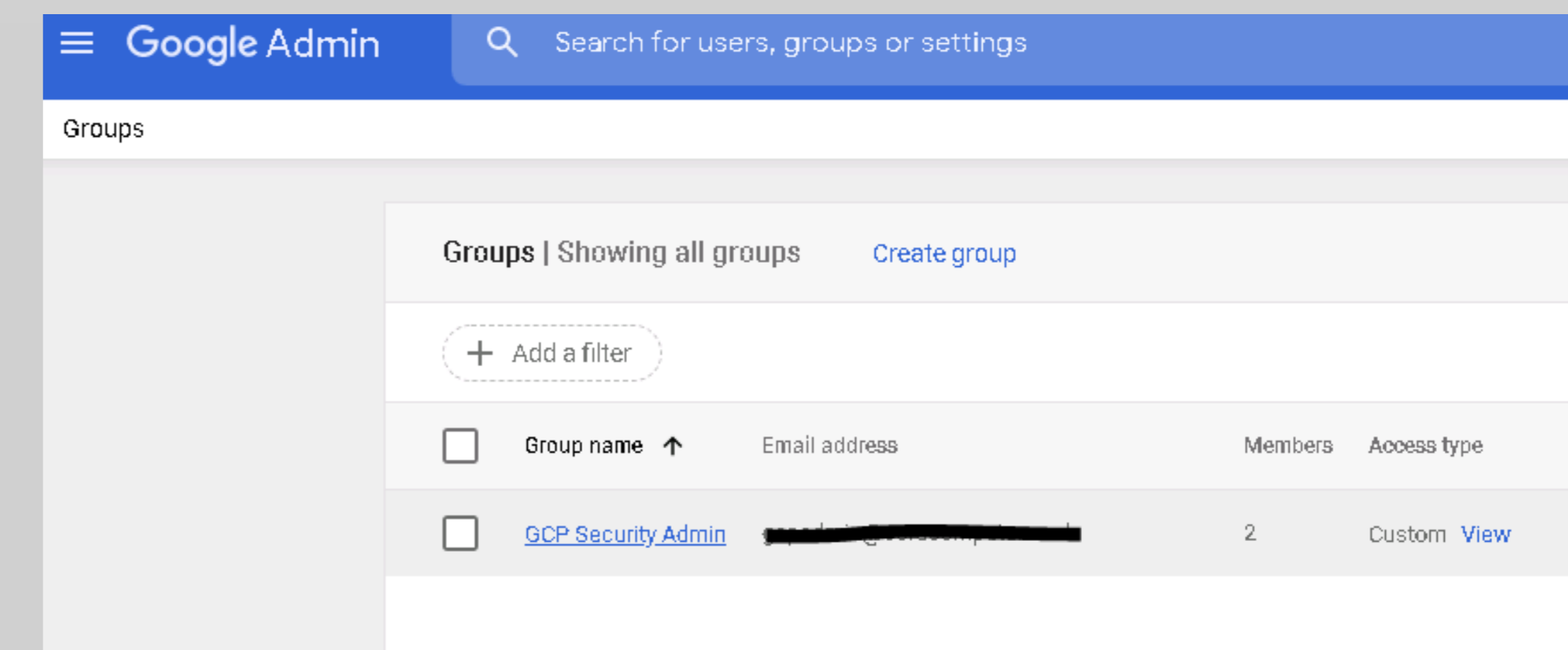
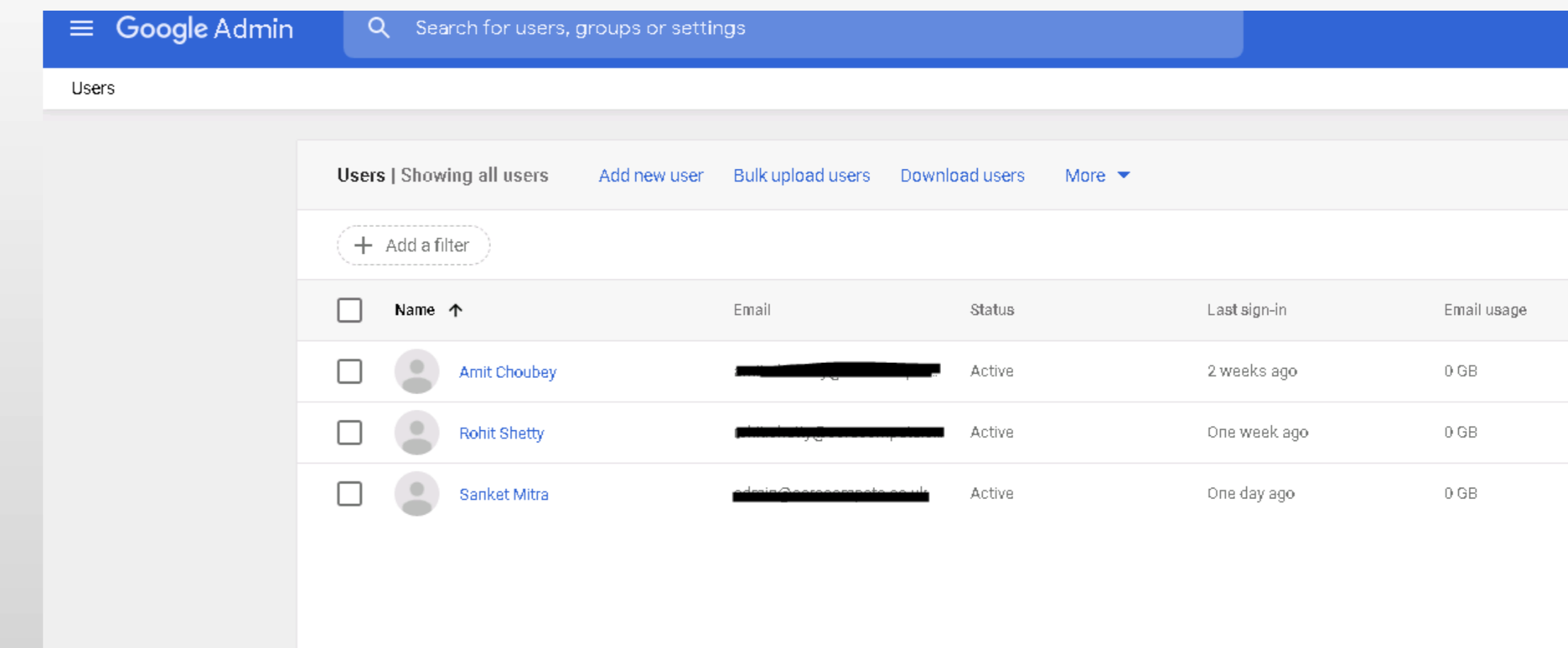
GCP supports SAML 2.0 SSO, where Google acts as the service provider and a third party, such as ADFS, Ping or Okta, acts as the identity provider. This provides seamless SSO against GCP console, web, and command-line-based SSH, and OAuth authorization prompts. GCP's command-line interface tools, such as gcloud, gsutil, and bq, use SAML 2.0-based SSO for browser-based authentication as well. Here, in this presentation, we have used ADFS as the identity provider.



SECURITY CONSIDERATIONS IN SAS® CLOUD ANALYTIC SERVICES FOR GOOGLE CLOUD PLATFORM DATA SOURCES (GOOGLE BIGQUERY, GOOGLE CLOUD STORAGE, GOOGLE BIGTABLE)

Sync Users and Groups

- Sync users and groups from AD to Google Cloud Admin Console as Gsuite users.
- Import the same Gsuite users into Google Cloud IAM.
- Provide the appropriate roles to access the Google Cloud application.



Access to SAS Viya

- Seamless access to Google BQ datasets from SAS Viya using the same Gsuite user.
- Access to Google Cloud Storage through GCS Fuse.

Thank You !!!

We demonstrated how to implement the best ways to provision or sync users when using your existing Identity Management System with GCP and integrate with SAS® Viya® application through SAML authentication. This will help you to consider the security on CAS for GCP data sources such as Google BigQuery, Google Cloud Storage and Google Bigtable.

Your comments and questions are valued and encouraged. Contact the author at:

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Technical Architect

CORE COMPETE

Milton Keynes, UK

References

SAS® Viya® 3.5 Authentication Overview <https://communities.sas.com/t5/SAS-Communities-Library/SAS-Viya-3-4-Authentication-Overview/ta-p/523244>

SAS Viya 3.5 Authentication Options <https://communities.sas.com/t5/SAS-Communities-Library/SAS-Viya-3-5-Authentication-Options/ta-p/620309>

Federating Google Cloud with Active Directory: Configuring single sign-on

<https://cloud.google.com/solutions/federating-gcp-with-active-directory-configuring-single-sign-on>

The background of the banner features a scenic view of the Washington Monument at dusk, with a vibrant sky of pinks, oranges, and blues. In the foreground, there is a stone walkway and a body of water reflecting the sky. On the left, there are cherry blossom trees in full bloom. A dark teal rectangular box is centered over the image, containing the event title in white and teal text.

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