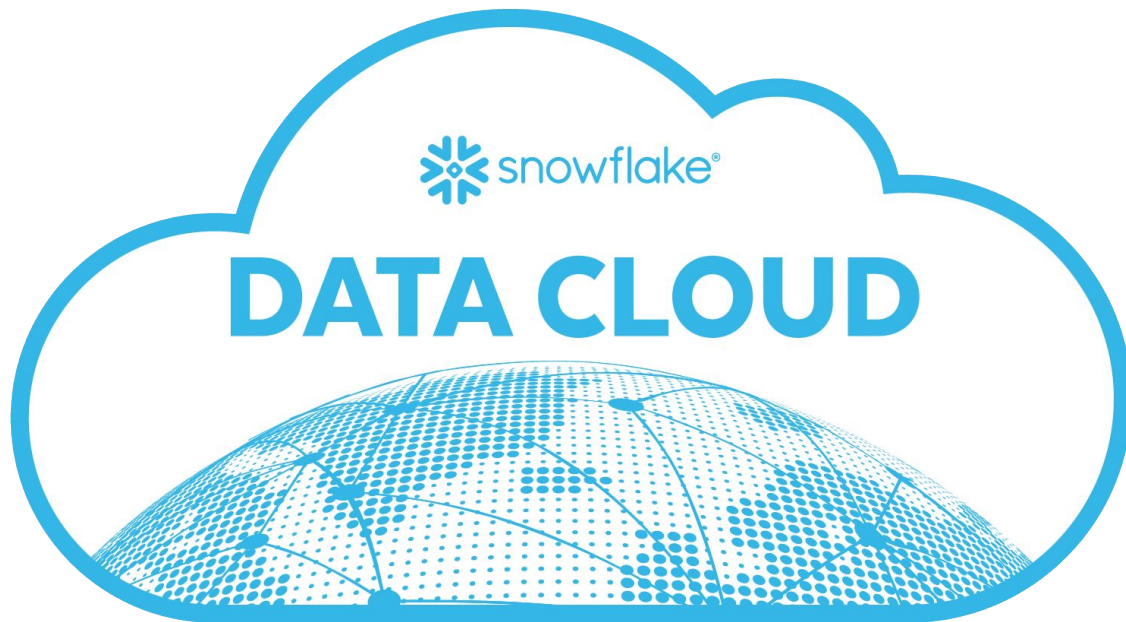


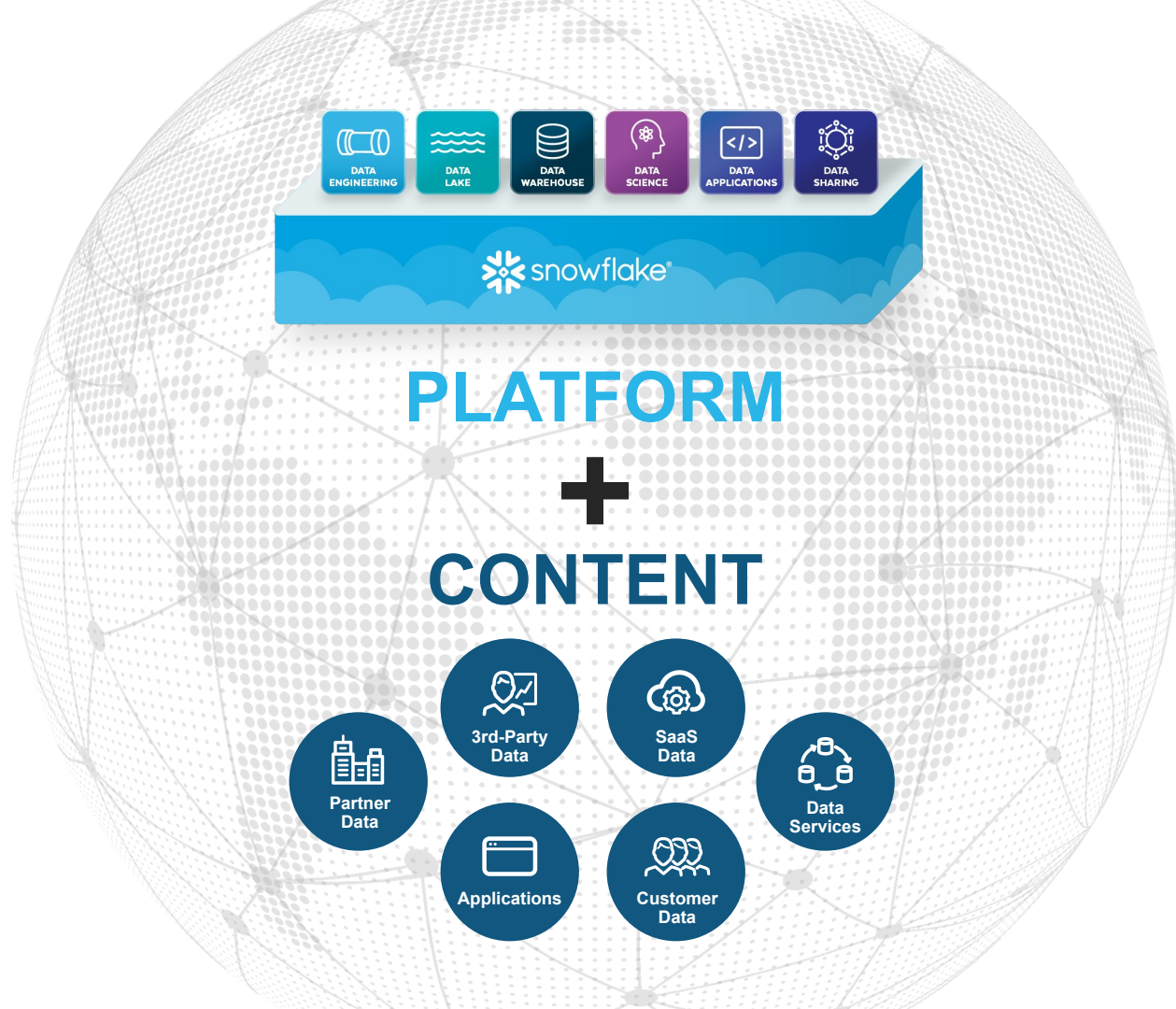
# THE DATA CLOUD IS A GLOBAL NETWORK



One global, unified system connecting companies and data providers to the most relevant data for their business



# ELEMENTS OF THE DATA CLOUD



# THE SNOWFLAKE PLATFORM

## Customers, for example:

- Create & manage users
- Load data
- Execute commands
- Export data

### DATA SOURCES

OLTP DATABASES  
ENTERPRISE APPLICATIONS  
THIRD-PARTY  
WEB/LOG DATA  
IoT



Built-in security & governance features protect the data you load and use in Snowflake

- Snowflake uses the industry-standard “shared responsibility” model
- Snowflake personnel do not have unauthorized access to customer data
- Snowflake personnel do not *collect, delete, update, disclose, or use* customer data

## Snowflake, for example:

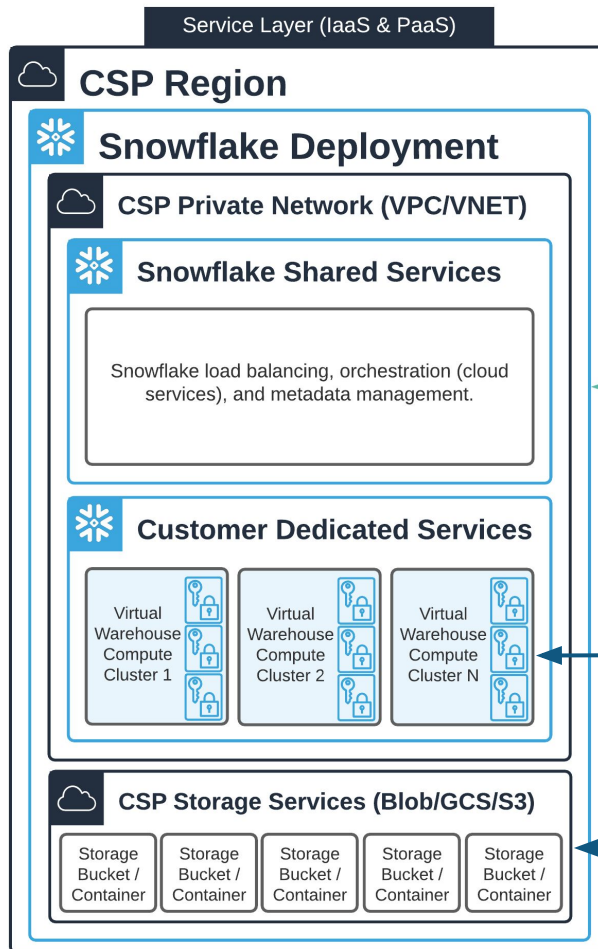
- Processes requests
- Maintains security
- Manages capacity

- Orchestrated security built in to the fabric of the platform
  - Automated controls in place for all functions
  - Constant monitoring
  - Analysis to detect and mitigate threats quickly

Snowflake uses sophisticated mechanisms to keep the platform safe and stable



- Customers never have direct access (e.g., "SSH") to the Snowflake VPC/VNET
- All access to customer data is through the Snowflake Service application layer
- Customer data is decrypted only in memory on dedicated Virtual Warehouse VMs:
  - Only the data **required to process the command is decrypted**
  - Virtual Warehouses are **ephemeral**, meaning they run only when needed



# SNOWFLAKE ARCHITECTURE at a Glance



Virtual Warehouses only process data for a single customer.

Customer data is encrypted at rest using **dedicated encryption keys**.  
Storage is governed by dedicated IaaS user principals.



# SNOWFLAKE SECURITY & GOVERNANCE AT A GLANCE

## 1 Network Controls

- [All communication secured](#) using TLS 1.2 with HSTS enforced for all client communications, and controlled by [Network Policies](#) (IP Allowlisting)
- Integration with CSP Private Networking
  - GCP Private Service Connect
  - [AWS Privatelink](#)
  - [AWS VPC ID S3 policies](#)
  - [Azure Private Link](#)
  - [Azure cross-VNet rules for Blob access](#)
- Choose from any of the [Snowflake-supported cloud regions](#)

## 2 Identity & Access

- [SCIM user management](#)
- [Native Snowflake credentials](#)
  - Password policies
  - Multi-Factor Authentication
  - Key Pair Authentication
- [Federated Identity](#)
  - SAML 2.0-based SSO
  - OAuth 2.0 delegated authorization
- Session control through policies

## 5 Data Protection

- Account, region, cloud, and data-level recovery & failover
  - [Fail-Safe](#)
  - [Time Travel](#)
  - [Cross-cloud & region replication & failover](#)
  - [AWS, Azure, GCP redundancy](#)

## 3 Data Governance

- [Built-in Features & partner integrations](#)
- [RBAC & DAC](#)
- Column-level security
  - [Using views & UDFs](#)
  - [Dynamic data masking](#)
  - [External tokenization](#)
- [Row access policy](#)
- [Tagging](#)
- [Classification](#)
- [Anonymization](#)

## 4 Encryption

- [Customer data always encrypted in flight](#)
- Data-at-rest always encrypted using a hierarchical key model
  - [Rooted in the CSP's HSM](#)
  - [Automated key rotation & re-keying](#)
  - [BYOK with "Tri-Secret Secure"](#)

## 6 Auditing

[Comprehensive audit trail for all activities by all users from login](#)

## 7 Compliance & Legal



**SOC 2 Type II**  
12 Month Coverage Period

**SOC 1 Type II**  
6 Month Coverage Period



**HITRUST** Certified



Security Standards Council



**FedRAMP**

Moderate (Available from OMB MAX)

- [Snowflake security policy](#)
- <https://www.snowflake.com/legal/> for DPA (GDPR), acceptable use, support, and more



# INFOSEC & COMPLIANCE at a Glance

All reports, attestations, documentation, and certifications

## Third-Party Reports & Certifications

- Snowflake SOC 2 Type II Report
- Snowflake SOC 1 Type II Report
- Snowflake PCI-DSS-AOC-Final Report
- HIPAA/HITRUST Reports (proving ability to enter into BAA)
- [Snowflake's ISO 27001 Certificate](#)
- FedRAMP Moderate (on OMB MAX)
- IRAP Protected
- CyberGRX Report
- Penetration Test Results



**ISO/IEC 27001**



**HIPAA**

**HITRUST** Certified



**SOC 2 Type II**

12 Month Coverage Period

**SOC 1 Type II**

6 Month Coverage Period



**PCI-DSS**



**FedRAMP  
Moderate**

(Available from OMB MAX)



**IRAP**

## Snowflake's Policy Documentation

- [Snowflake Security Policy](#)
- <https://www.snowflake.com/legal/> for Acceptable Use, Support, and more

## Snowflake Internal Controls & Testing

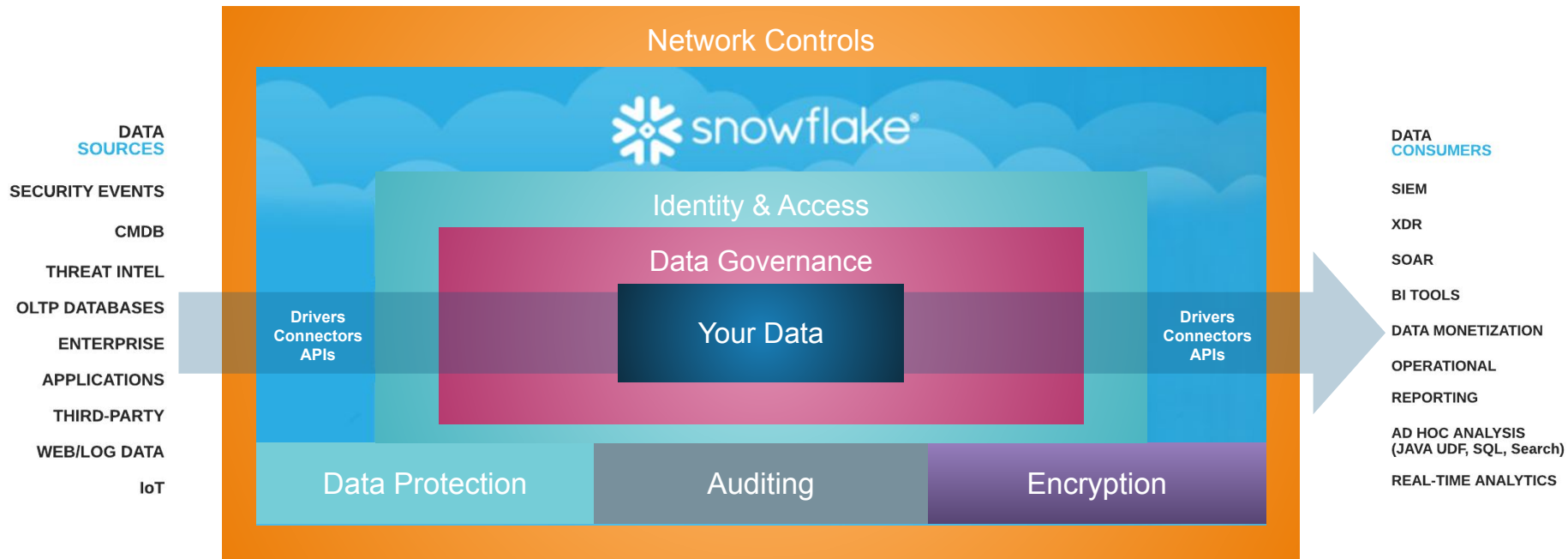
- DRP, BCP, and Information System Contingency Plans
- Security Incident Process
- Staff Training, Onboarding, and Access Policies

## Snowflake Self-Assessment Reports

- CAIQ
- SIG Lite
- Red Team Pen Tests



# SNOWFLAKE SECURITY & GOVERNANCE AT A GLANCE



Achieve: Compliance benchmarks, Privacy goals



## Snowflake Drivers & Connectors

- C / C++
- Golang
- Hive
- JDBC
- Kafka
- .NET
- Node.js
- ODBC
- PHP PDO
- Python
- R
- SnowSQL
- Spark
- SQLAlchemy
- Web UI
- SQL API

### Common Connection Pattern

HTTPS/TLS



### Common Access Control



Snowflake  
VPC/VNet



# NETWORK CONTROLS – SECURE COMMUNICATION

## Common Connection Pattern for Drivers & Connectors

- Every [driver & connector](#) connects the same way
- All communication encrypted end-to-end
  - All customer data flows solely over HTTPS
  - Connections encrypted [using TLS 1.2](#) from client through to the Snowflake Service
  - HSTS enforced for all client communications
- Data encrypted at rest

## Common Access Control for all Sessions

- IP allowlisting available to restrict client communication to specific IP addresses using [customer-configured Network Policies](#)
- Authentication required for all connections



# NETWORK CONTROLS – NETWORK POLICIES

- Network Policies encapsulate an IP allowlist and an IP blocklist
- [Customer-configured Network Policy](#)

## Network policies can be applied at three levels



### 1. Snowflake Account

- All traffic will use this policy, unless there is a more specific one.
- Control is applied at authentication time.



### 2. Outside Integration

- Applies to traffic at the integration endpoint only. For example: SCIM or OAuth security integrations.



### 3. User Specific

- Applies to the specific user only.
- Best practice for users used as service accounts.

*The most specific policy always wins.*

### Edit network policy

MULTIVERSE as ACCOUNTADMIN

Enter a valid IPv4 address and optional CIDR or multiple addresses in a comma-separated list.

4 allowed IP addresses

3	2	×
7	26	×
1	.17	×
1	31	×

0 blocked IP addresses

No blocked addresses

Add addresses that will be blocked from accessing your Snowflake account

Comment (optional)

Cancel

Save changes



# NETWORK CONTROLS – ANY SUPPORTED REGION



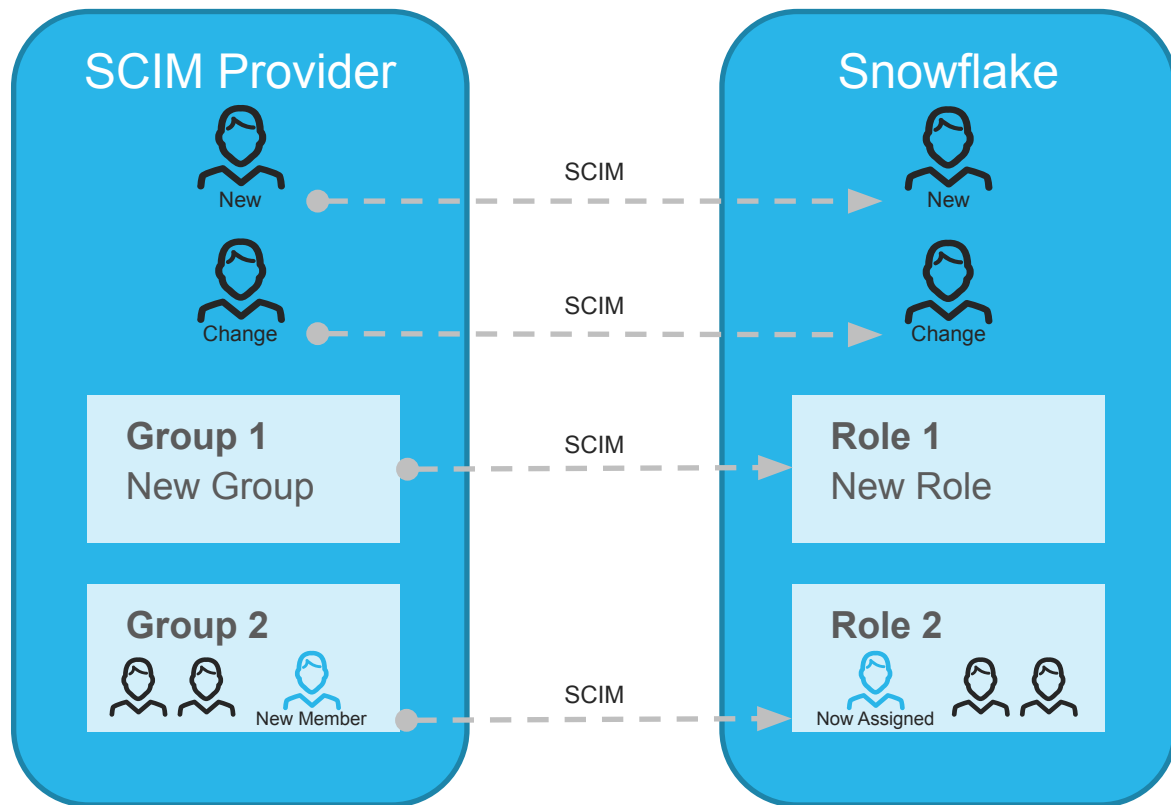
[Most up-to-date list of Snowflake regions](#)



# USER PROVISIONING WITH SCIM

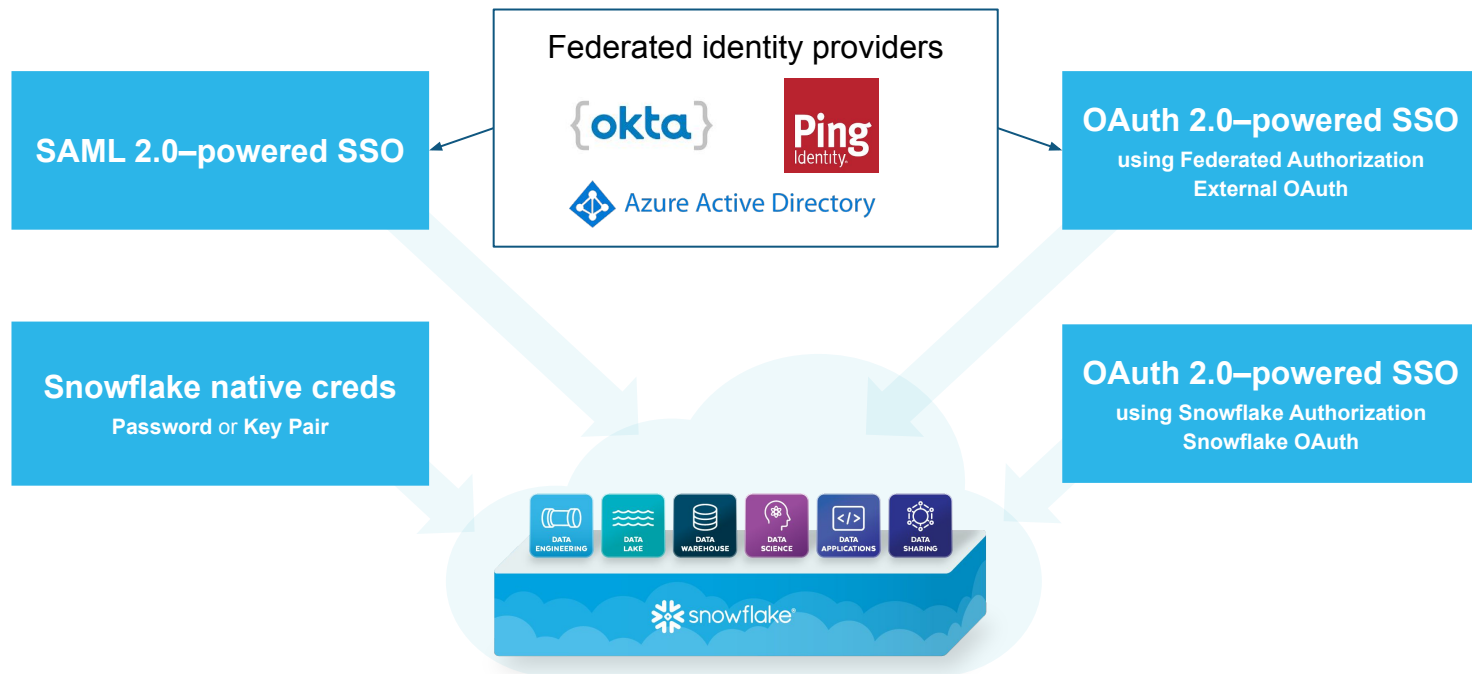
## Authoritative Directory in Control

- User creation, changes, & deletes
- Roles driven by group membership
- Use Okta, Azure AD, or any system that speaks [SCIM](#), or...
- Any system that can [use SQL](#)



# SNOWFLAKE AUTHENTICATION

How to do Authentication & Delegated Authorization for Snowflake



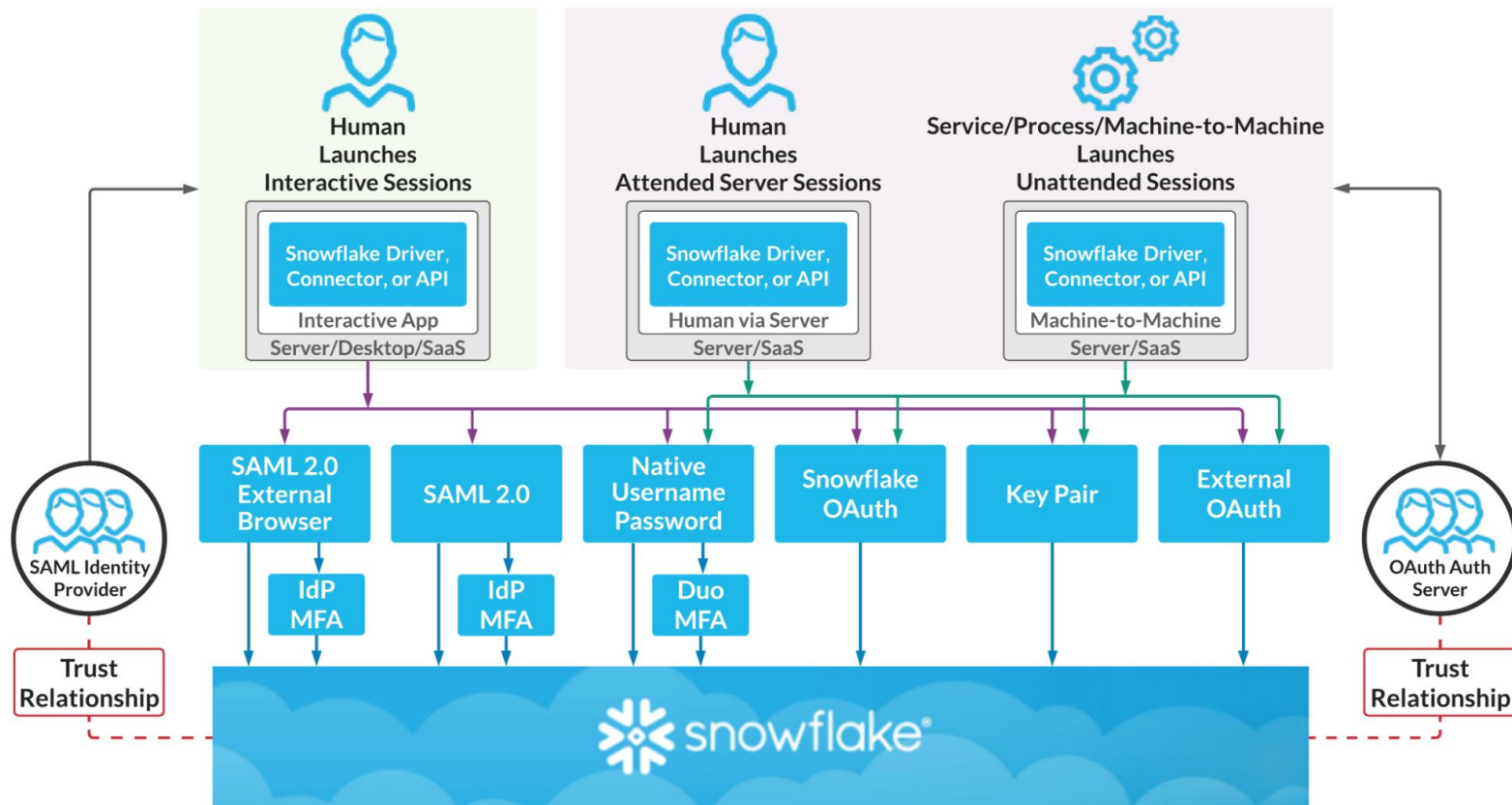
- Users may have multiple authN & authZ methods all configured at once
- “External Browser” mode can bring SSO to desktop apps that do not natively support it
- Integrate easily with a secrets management platform like Hashicorp Vault

Please note: Partners shown are a sample list and not the full list of supported platforms.



# SNOWFLAKE AUTHENTICATION

How to do Authentication & Delegated Authorization for Snowflake



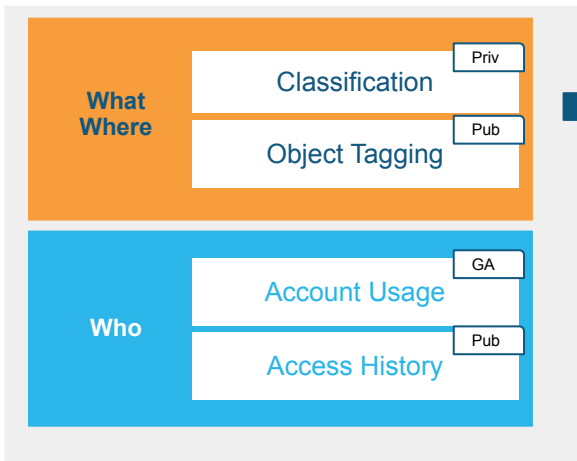
# SNOWFLAKE GOVERNANCE



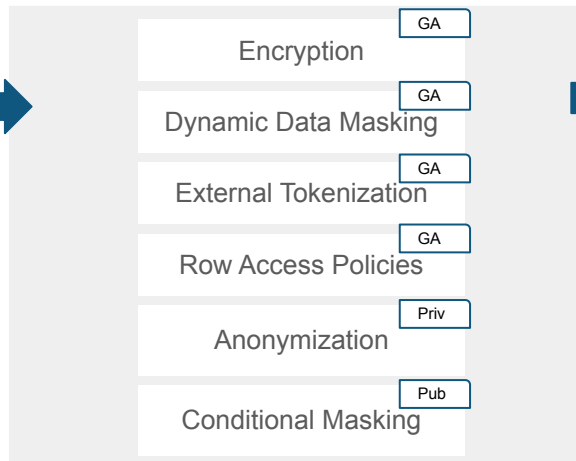
# SNOWFLAKE GOVERNANCE CAPABILITIES



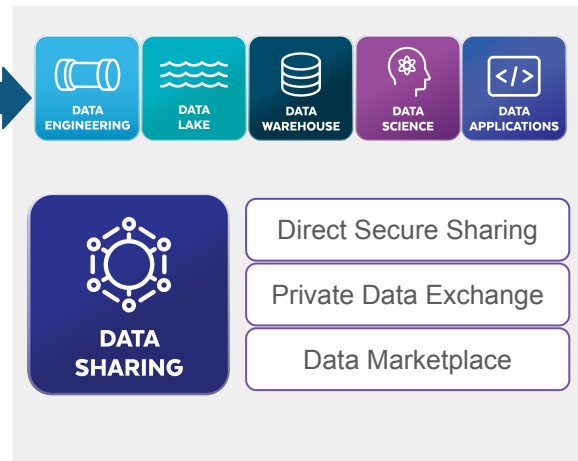
## Know Your Data



## Protect Your Data



## Unlock Your Data



name	gender	age	zip_code	phone
John Smith	male	39	79007	123-555-1234
Jane Doe	female	50	77001	333-555-1236
Mary Taylor	trans-fem	46	77020	222-333-1111
Gene Marshall	non-binary	48	77042	555-555-1234
Michael Gaines	male	75	79003	666-666-1357

### We start with a table

- The table has been instantiated from the encrypted, at-rest files (micro-partitions)
- The information in the table is opaque to Snowflake
- This table contains data “in the clear,” but you might load data that’s been modified in some way to protect it as well

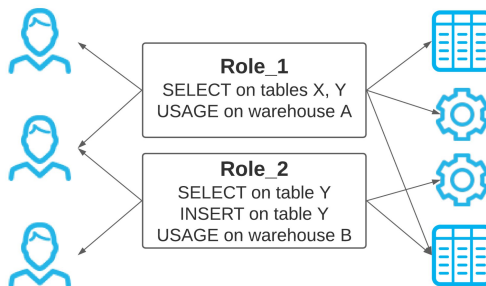


## RBAC &amp; DAC

## Views &amp; UDFs

name	age	zip_code
J Smith	3-	790**
J Doe	5-	770**
M Taylor	4-	770**
M Gaines	7-	790**

name	gender	age	zip_code	phone
John Smith	male	39	79007	123-555-1234
Jane Doe	female	50	77001	333-555-1236
Mary Taylor	trans-fem	46	77020	222-333-1111
Gene Marshall	non-binary	48	77042	555-555-1234
Michael Gaines	male	75	79003	666-666-1357

**RBAC & DAC Protect the table**

- Every object in Snowflake is subject to these controls, and they are at the whole-object level
- RBAC inheritance and other RBAC features apply
- The customer controls RBAC completely
- DAC (Discretionary Access Control) applies to the role that owns the object, unless the object is subject to Managed Schema Access

**You may also create Views & UDFs**

- These are mostly used to redact or transform rows, columns, or even cells, and create a new object
- The new object has RBAC and DAC controls



RBAC &amp; DAC

Views &amp; UDFs

Column-Level Security

Row Access Policy

### We can use Policy controls for Columns and Rows

- Prevent View/UDF explosion
- Table/View owners and privileged users (such as ACCOUNTADMIN) unauthorized to data by default
- Ensure controls are applied in any context where the object's data is used

### We get more ease of management

- Centrally manage policies
- Apply a single policy to multiple tables
- Built-in separation of duty: policy admins assign and users are subject to policy controls
- All application and use is fully audited

name	gender	age	zip_code	phone
John Smith	male	39	79007	123-555-1234
Jane Doe	female	50	77001	333-555-1236
Mary Taylor	trans-fem	46	77020	222-333-1111
Gene Marshall	non-binary	48	77042	555-555-1234
Michael Gaines	male	75	79003	666-666-1357



## Dynamic Data Masking

RBAC &amp; DAC

Views &amp; UDFs

Column-Level Security

Dynamic Data Masking

We can leverage Column-Level Security to dynamically mask data at query time

- No change to the stored data
- Mask or partially mask using constant value, hash, and custom functions
- Unmask for authorized users only

Query results

phone	name
***_**-5534	*****
***_**-3564	*****
***_**-9787	*****



Alex  
(Unauthorized)

Query results

phone	name
408-123-5534	*****
510-335-3564	*****
214-553-9787	*****



Morgan  
(Partially Authorized)

Example:

```
create or replace masking policy F00
as (val string) returns string ->
case
  when is_granted_to_invoker_role('SEECLEAR')
    then val
  when current_role('ONLYPART')
    then regexp_replace(val, '[0-9]', '*', 7)
  when is_role_in_session('CRYPTO')
    then decrypt_raw(val, KEY, IV, ...)
  when is_role_in_session('BESPOKE')
    then user_defined_Func(val, baz, ...)
  else '** masked **'
end;
```



RBAC &amp; DAC

Views &amp; UDFs

Column-Level Security

External Tokenization

name	gender	age	zip_code	phone
John Smith	male	39	79007	46ryn28ahrt6
Jane Doe	female	50	77001	7dhe8ajs64te
Mary Taylor	trans-fem	46	77020	63gds74y2jwe
Gene Marshall	non-binary	48	77042	84yr75yw3456
Michael Gaines	male	75	79003	9fhr64gswr21

**Example using policy:**

```

create or replace masking policy BAR as (val string)
returns string ->
case
  when is_granted_to_invoker_role('SEETOKENS')
  then val
  when current_role('GETREAL')
  then detok_ext_func(val, CURRENT_USER(), ..)
  else '** masked **'
end;

```

**Example using SQL outside policy:**

```

SELECT detok_ext_func(T1.phone) AS REAL_PHONE
, T1.GENDER
, T2.ZIP
FROM T1
JOIN T2
ON T2.PHONE = T1.PHONE
;

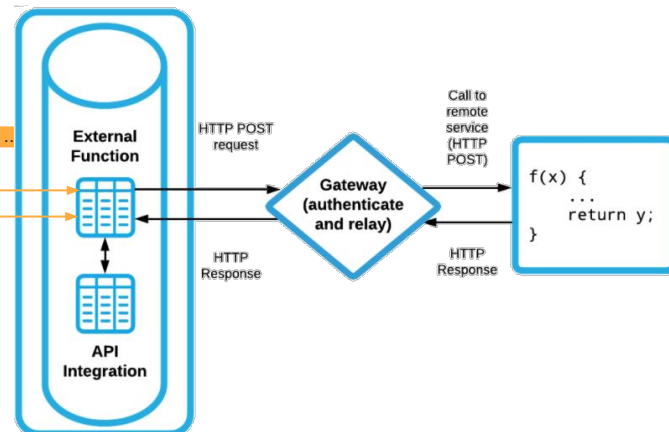
```

**Ingest protected (PII/PHI) data as Externally Tokenized**

- Using tokenization provider functionality upstream from Snowflake

**De-tokenize for authorized users at query time**

- Tokenization provider called using a Snowflake External Function to de-tokenize data
- For unauthorized users, third-party service is not called
- Can be used in policy or outside



## Row Access Policy

RBAC &amp; DAC

Views &amp; UDFs

Column-Level Security

Row Access Policy

name	gender	age	zip_code	phone
John Smith	male	39	79007	123-555-1234
Jane Doe	female	50	77001	333-555-1236
Mary Taylor	trans-fem	46	77020	222-333-1111
Gene Marshall	non-binary	48	77042	555-555-1234
Michael Gaines	male	75	79003	666-666-1357

Query results

zip_code	name
77001	*****

  
**Alex**  
 (Only 77001)

Query results

zip_code	name
77020	*****

  
**Morgan**  
 (Only 77020)

## Filter rows at query time based on user role and lookup table

- Policy contains condition(s) to allow or filter out rows
- Policy is applied to one or more table, view, or external table in an account
- Dynamically generated predicate filters out rows the user is not authorized to see at query time
- Can be combined with other controls

### Example:

```
create or replace row access policy F00
as (this_zip varchar) returns boolean ->
'all_seeing_role' = current_role()
or
exists (
  select 1 from zip_mapping_table
  where info_reader = current_role()
  and zip_code = this_zip
)
;
```



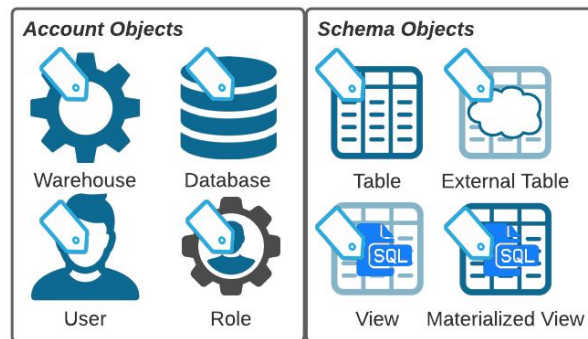
RBAC &amp; DAC

Views &amp; UDFs

Column-Level Security

Row Access Policy

Tagging



## Keep track of sensitive data for visibility and compliance

- Assign tags to sensitive columns, tables, external tables, or views
- Easily audit sensitive objects without appropriate security policies
- Assign tags to virtual warehouses, Snowpipe, materialized views, and clustered tables to keep track of resource usage for cost visibility and attribution

## Manage tags with flexible administration models

- Centralized tag creation and assignment for centrally managed governance
- Decentralized tag assignment controlled by privileges for object owner-supplied tag value

name	gender	age	zip_code	phone
John Smith	male	39	79007	123-555-1234
Jane Doe	female	50	77001	333-555-1236
Mary Taylor	trans-fem	46	77020	222-333-1111
Gene Marshall	non-binary	48	77042	555-555-1234
Michael Gaines	male	75	79003	666-666-1357



## Classification

RBAC &amp; DAC

Views &amp; UDFs

Column-Level Security

Row Access Policy

Tagging

Classification

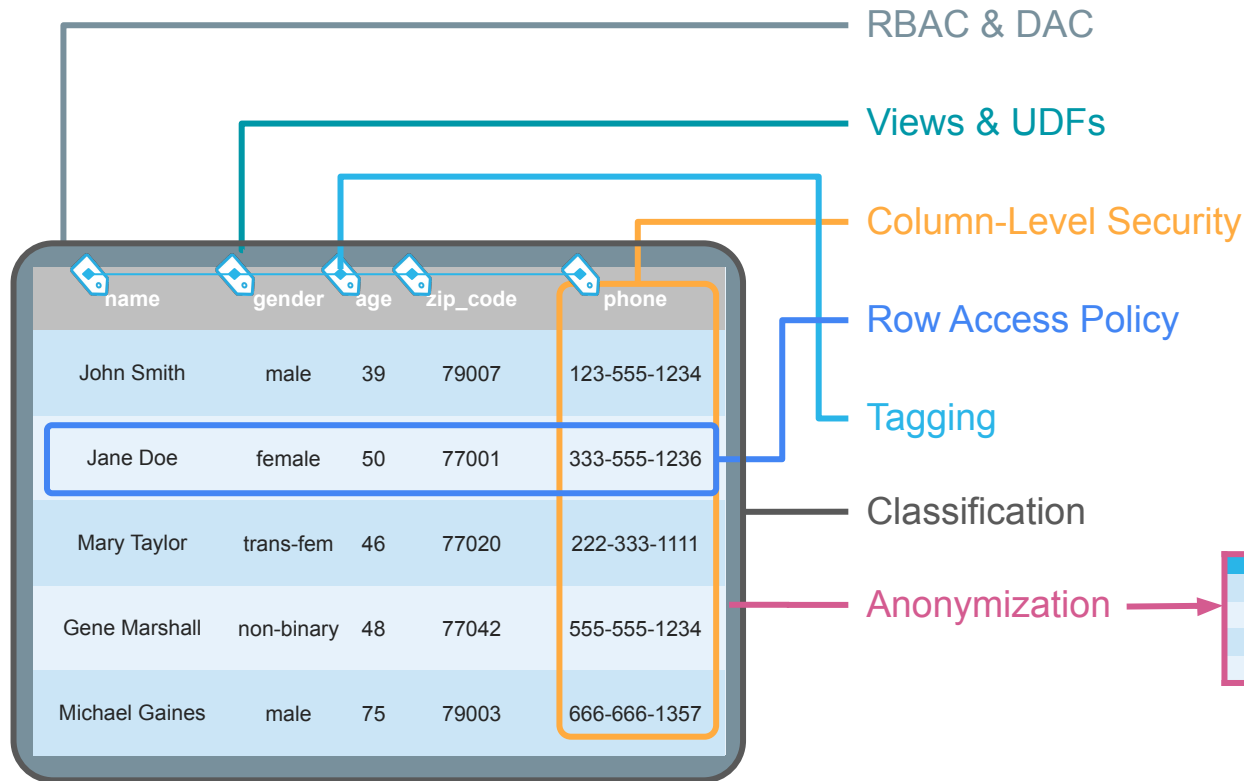


name	gender	age	zip_code	phone
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Mary Taylor	trans-fem	46	77020	222-333-1111
Gene Marshall	non-binary	48	77042	555-555-1234
Michael Gaines	male	75	79003	666-666-1357

**Classify columns containing personal data**

- Automatically detect columns with personal data
- Apply Snowflake-defined semantic and privacy category system tags
- Assign data access policies to columns based on system tags
- Use system tags to audit personal data among millions of columns
- Seamlessly integrates across Snowflake's governance capabilities and Data Sharing
- Populate and manipulate tags using third-party GRC, MDM, and other classification solutions





## Protect personal data and retain analytical value

- Set level of protection to meet your internal policies
- Optimize for your analytic use case
- Help comply with privacy regulations

## Maintain protection during updates

- Dynamically applied
- Role-based controls dictate who can view personal data at query time

name	gender	age	zip_code	phone
****	male	[36-40]	790**	***_***_****
****	female	[46-50]	770**	***_***_****
****	na	[46-50]	770**	***_***_****
****	male	[36-40]	790**	***_***_****

Automatically produced anonymized View

## Industry standard built for Snowflake

- Utilize native k-Anonymity algorithm
- Integrated, centralized access controls
- Share data internally and externally while protecting personal information



## All Data Gov Features

RBAC &amp; DAC

Views &amp; UDFs

Column-Level Security

Dynamic Data Masking

External Tokenization

Row Access Policy

Tagging

Classification

Anonymization

name	age	zip_code
J Smith	3-	790**
J Doe	5-	770**
M Taylor	4-	770**
M Gaines	7-	790**

## Security &amp; Governance delivered

- Automated controls
- Centralized governance with delegated authority
- Optimized analysis without sacrificing privacy and compliance concerns
- Compatible with third-party platforms
- Data-driven policies

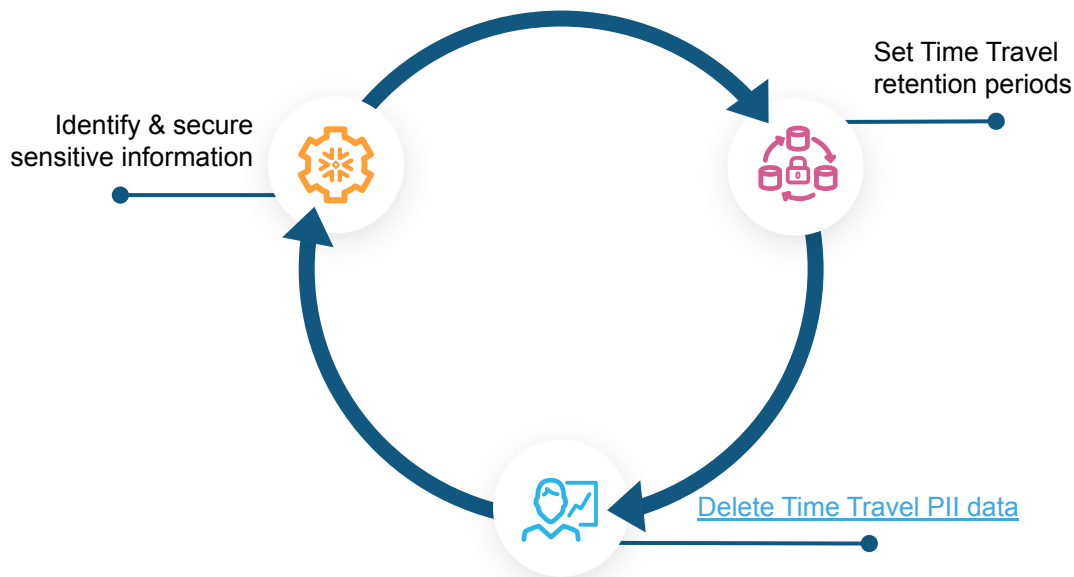
name	gender	age	zip_code	phone
****	male	[36-40]	790**	***_***_****
****	female	[46-50]	770**	***_***_****
****	na	[46-50]	770**	***_***_****
****	male	[36-40]	790**	***_***_****

Automatically produced anonymized View



# TIME TRAVEL & FAIL-SAFE

GDPR, CCPA, and other emerging regulations allow individuals to request the deletion of their personal information, unless exceptions apply. This means your Snowflake recovery policies must properly align to your organization's compliance policies.



**Snowflake provides product features for customers to meet the demands of data privacy regulations.**

- Time Travel & Fail-safe have data retention implications
- Up to 90 days (Time Travel)
- 7 days (Fail-safe)
- For PII erasure requests, you must consider Time Travel and its setting.

[More on Time Travel & Fail-safe](#)



# DATABASE REPLICATION & FAILOVER

## 1 Cross-Cloud & Cross-Region Replication

- Business continuity & disaster recovery
- Secure data sharing across regions/clouds
- Data portability for account migrations

## 2 Zero Performance Impact on Primary

- Asynchronous replication

## 3 Reduced Data Loss

- Incremental refreshes

## 4 Instant Recovery

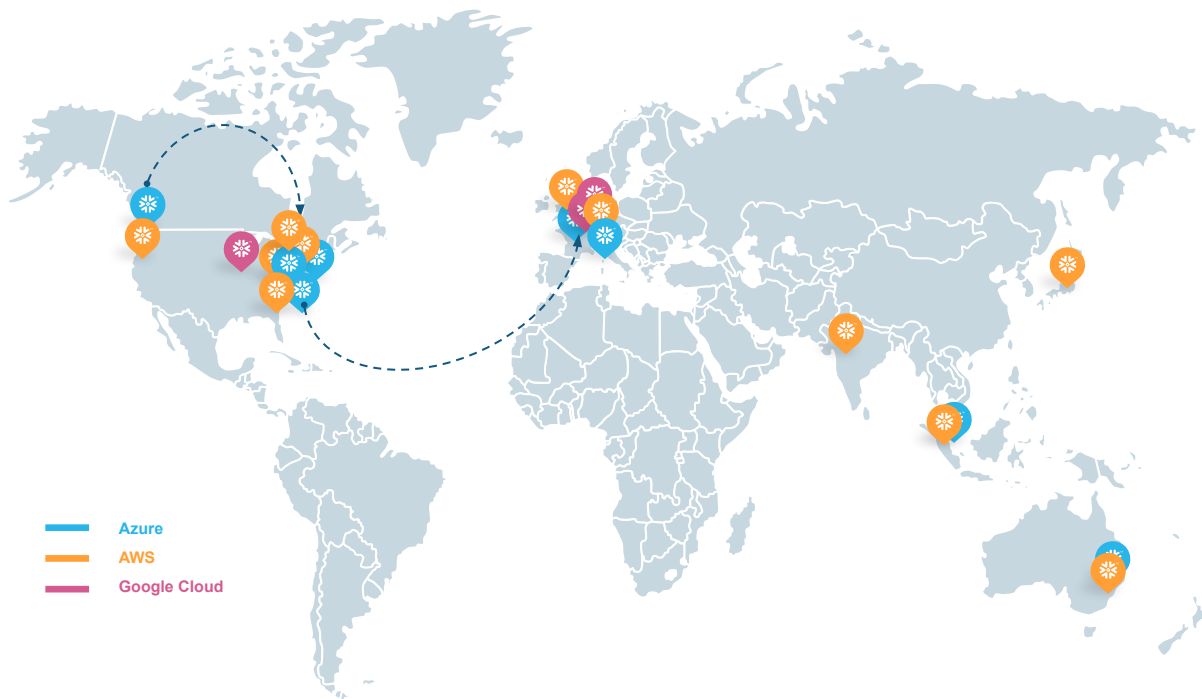
- Read: Readable secondary databases
- Write: Database failover

## 5 Secure

- Data encrypted at-rest & in-transit
- Tri-Secret Secure compatible

## 6 Cost Effective

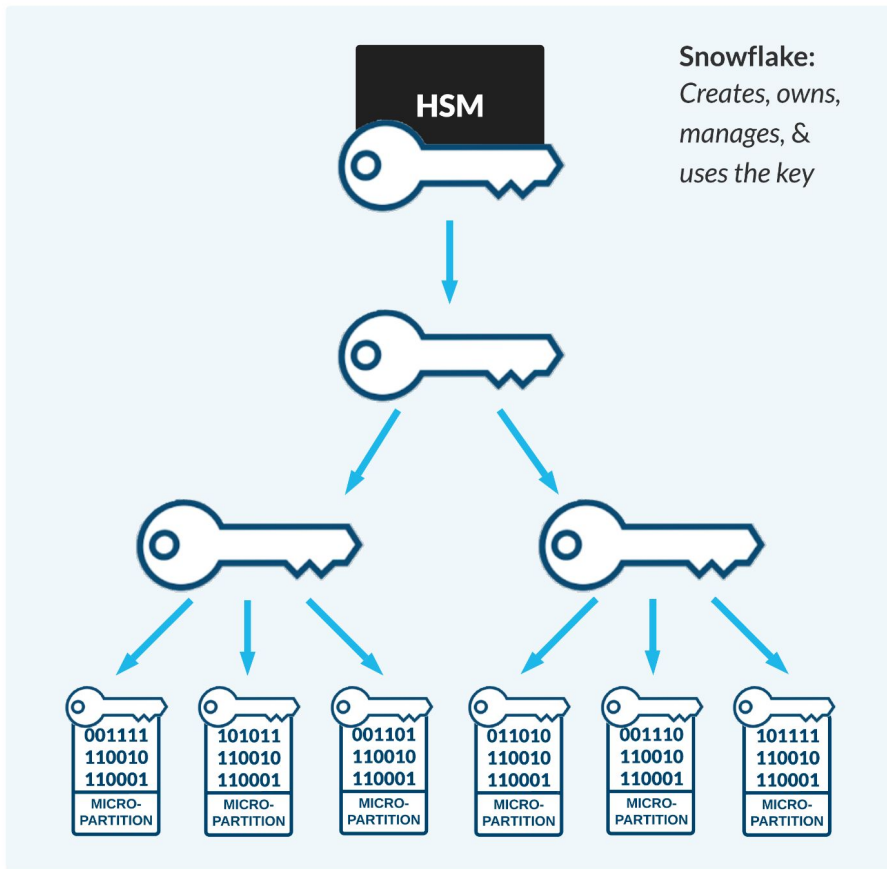
- Replication costs: Data transfer & compute (serverless)
- Control which databases to replicate



[More about Database Replication & Failover](#)



# HIERARCHICAL KEY MODEL

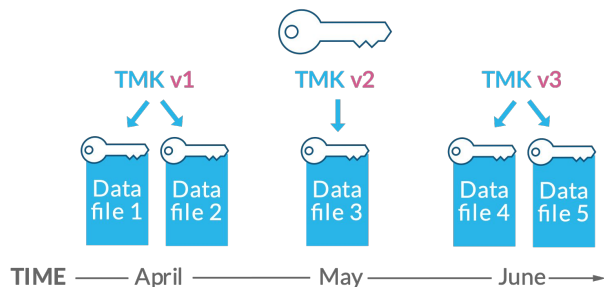


## Hierarchical Key Model

- Hierarchical key model rooted in the CSP's HSM
  - GCP: [Cloud HSM](#)
  - AWS: [Cloud HSM](#)
  - Azure: [Dedicated HSM](#)
- All data at rest is encrypted by default, with no configuration required

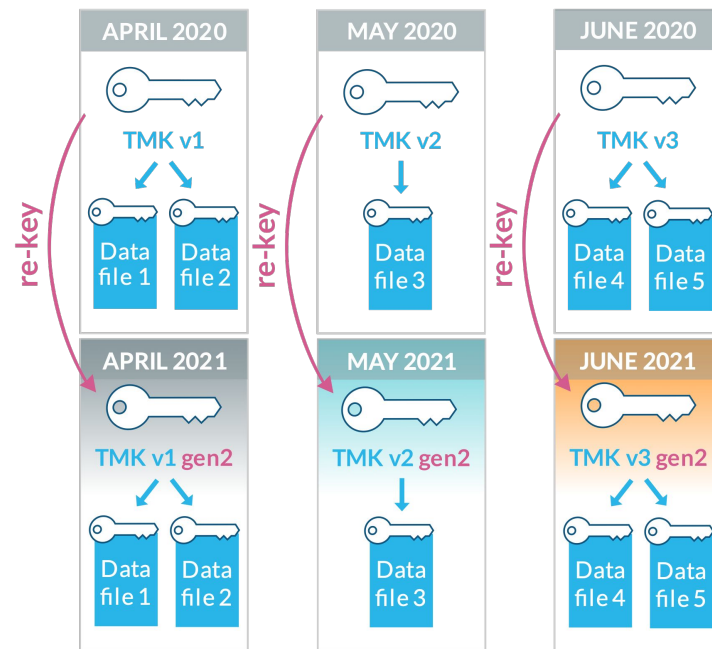


# KEY ROTATION & RE-KEYING



## Key Rotation

- Snowflake rotates keys every 30 days
- Process is transparent to customer and queries

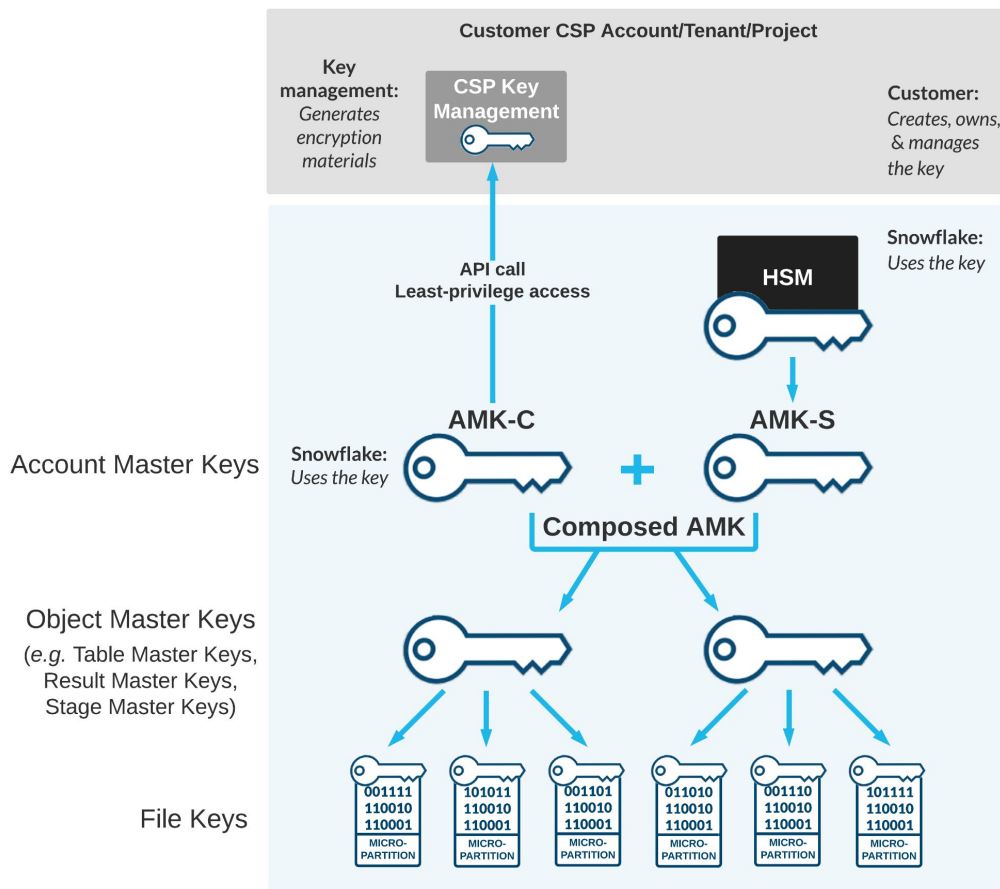


## Key Re-Keying

- Yearly re-keying re-encrypts data on the key's birthday
- Re-keying requires Enterprise Edition or better
- Process is transparent to customer and queries



# TRI-SECRET SECURE KEY MODEL



## Hierarchical Key Model using Tri-Secret Secure

- Hierarchical key model adds a hybrid HYOK & BYOK model to give the customer control
- Customer holds key in their CSP Key Management and brings key materials to Snowflake to be part of the key-encrypting key (the Account Master Key or AMK)
- CSP-supported key managers:
  - GCP: [Cloud KMS](#)
  - AWS: [AWS KMS](#)
  - Azure: [Key Vault](#)



# AUDIT LOGGING – ACCOUNT USAGE

Auditing tracks every user's activity at all times in full detail

Kept in a tamper-proof area of your account for 365 days

All supplied drivers and connectors also have extended logging

## Possibly Interesting Blocked AuthN Events

33 rows \*\*\*

TIMESTAMP	ERROR_MESSAGE	CLIENT_IP	USER_NAME
06:09:52	INCOMING_IP_BLOCKED	201.177.168.200	UNIVERSE-1-DEMO06-US-MIKE@
08:02:33	USERNAMES_MISMATCH	81.238.108.200	SETH.YOUSSEF@SNOWFLAKESE
12:37:35	PASSWORD_EXPIRED	81.238.108.200	DMITRI
03:28:45	USER_ACCESS_DISABLED	31.186.200	SPIDERMAN
22:00:29	USER_ACCESS_DISABLED	195.186.107.29	UATU
22:00:26	USER_ACCESS_DISABLED	195.186.107.29	THE.PHILOSOPHER@GMAIL.COM
22:00:25	USER_ACCESS_DISABLED	195.186.107.29	TEST1
22:00:23	USER_ACCESS_DISABLED	195.186.107.29	SPIDERMAN

[Show 25 more](#)

## Why Are You Running as ACCOUNTADMIN?

9 rows \*\*\*

QUERY_TYPE	USER_NAME	START_TIME
SELECT	DMITRI	2021-06-14 02:31:53.282 -0700
SHOW	BORING	2021-04-05 05:47:59.189 -0700
SHOW	SETHY	2021-02-24 08:58:16.539 -0800
SHOW	JSANDER	2020-11-19 08:15:10.216 -0800
ROLLBACK	WADEWILSON	2020-10-26 08:38:54.073 -0700
SELECT	SYSTEM	2020-10-14 15:38:47.130 -0700
SHOW	JOHN	2020-09-14 05:52:30.765 -0700
SHOW	EUGENE	2020-08-27 15:55:49.126 -0700
SHOW	RYANO	2020-08-23 12:29:40.470 -0700

## Active Stages

6 rows \*\*\*

STAGE_LOCATION	LAST_LOAD
s3://aws-cse-testing/	2021-04-12 11:34:41.050 -0700
s3://assume-role-stage/cyptostream/files	2020-11-26 10:22:14.097 -0800
s3://aws-cse-testing	2020-10-19 12:56:49.375 -0700

## AuthN Breakdown

\*\*\*

PASSWORD\_MFA   PASSWORD\_NOMFA   ALL\_PASSWORD   SAML   OAUTH   KEYPAIR



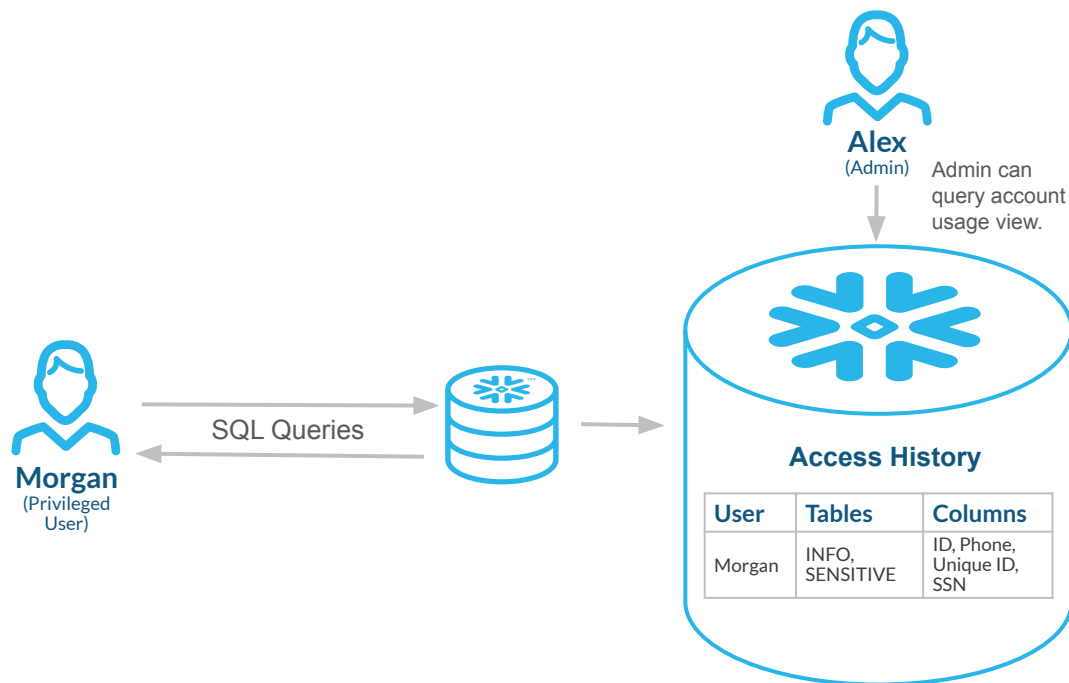
# AUDIT LOGGING – ACCESS HISTORY

**Access History supplies audit data access to comply with regulatory requirements and data governance initiatives.**

- Access log of the tables, views, and columns each query accesses
- Includes base objects (e.g. table serving a view) indirectly accessed by the query
- Data access history available for easy reporting as a Account Usage View

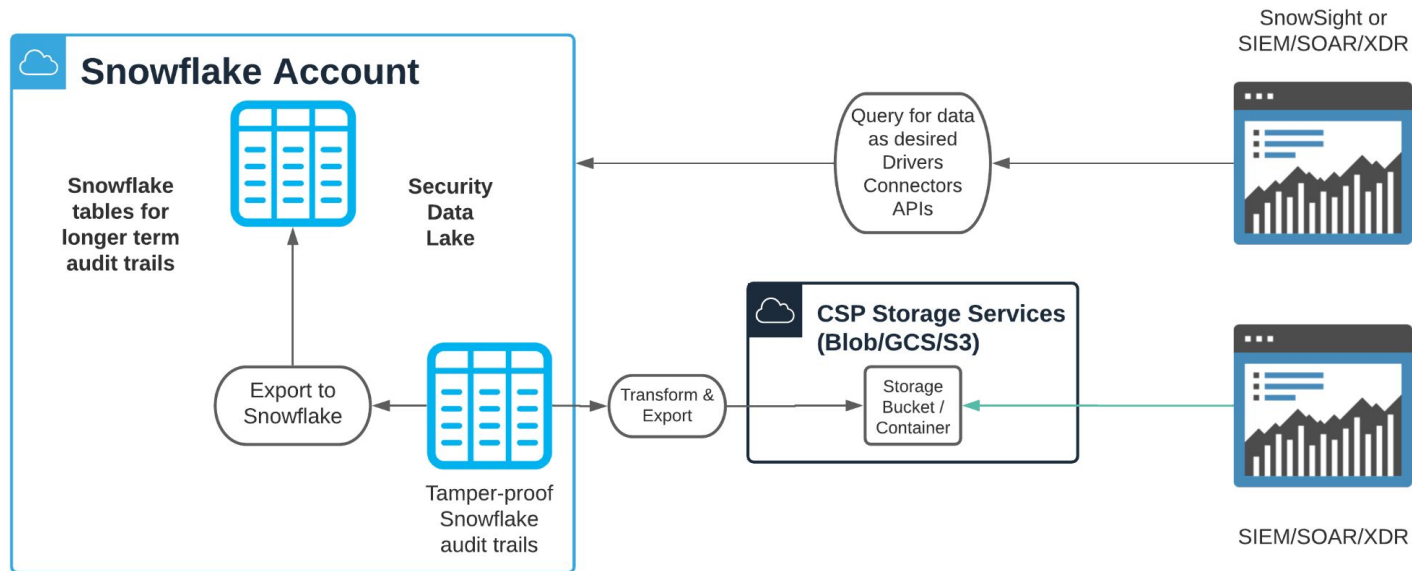
**Discover unused data to determine whether to archive or delete the data.**

**Notify users prior to altering a table, view, or column.**



# AUDIT LOGGING – EXPORTING AUDIT LOGS

- Results can be further filtered using SQL predicates
- Export through JDBC or as JSON for use in SIEM



# INFRASTRUCTURE SECURITY & MONITORING

### How is the Snowflake Infosec Team monitoring the service?

## Snowflake's internal Critical Security Controls dashboard provides real-time risk visibility

- Access Control, Security Assessment & Authorization, Configuration Management, Security Awareness, *etc.* all represented on a single Dashboard
- Real-time monitoring of data loaded into Snowflake from internal and other relevant data sources

## Snowflake uses CIS benchmark templates for configuration hardening

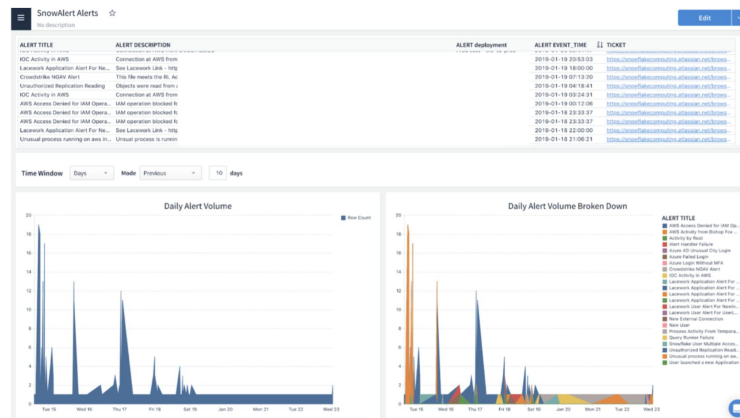
- Service configuration information is collected centrally in Snowflake
- Continuously and automatically tracked—unplanned changes cause alerts
- Part of the Snowflake Security Compliance Team's dashboard

## Snowflake undergoes independent pentests

- Comprehensive Web Application Penetration Test – Annually
- Internal Network Penetration Test – Annually
- Major Functionality Penetration Tests – As major functionality is released as part of the SDLC

## Snowflake performs weekly vulnerability scans on infrastructure

- Vulnerabilities are remediated per Security Policy
- Remediation trends tracked using Snowflake



# GDPR – GENERAL DATA PROTECTION REGULATION

## *What is it?*

- GDPR is an EU regulation that went into effect on May 25, 2018
- Governs the protection and processing of EU personal data

## *What does it mean in the context of Snowflake?*

Different requirements apply to different types of entities:

- **Controller** – Snowflake customers are responsible for complying with GDPR independently from Snowflake
- **Processor** – Snowflake is responsible for the following:
  - Putting data processing addendums in place with our customers and our vendors
  - Only using our customers' EU personal data to provide our service to them
  - Being transparent about how we handle and process our customers' EU personal data on their behalf and keeping accurate records
  - Securing customers' EU personal data in our service
  - Facilitating our customers' compliance with data subject requests
  - Notifying customers about changes to our list of subcontractors

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Snowflake responsibilities are documented in a [Data Processing Addendum](#) (DPA on [snowflake.com/legal](https://snowflake.com/legal)).

Available for signature now



# USEFUL LINKS



- [Snowflake Security Overview and Best Practices](#)
- [Snowflake Security Product Documentation](#)
- [Managing Governance in Snowflake](#)





THANK YOU

