**Capital One Slingshot** is software-as-a-service built to meet data management challenges for digital-first, cloud-first businesses at scale. It’s hosted within a dedicated environment with multiple Availability Zones and high availability deployment.

Slingshot uses two patterns to access and provision Snowflake accounts. Its data access and object provisioning capabilities don’t require access to customer Snowflake data or ownership of the customer resources provisioned through the application.

### Architecture layout

**Customer Environment**

- Customer User Authentication
- Customer Snowflake

**Slingshot AWS Environment**

- Slingshot
  - Authentication Services
  - Onboarding Services
- Service Layer
- Storage Layer
- User Interface
- Tenant Isolation
- Leverage Snowflake Zero Copy Data Share
- Metrics and Analytics
- Monitoring and Logging

### Key features

#### DATA

- Customer’s Snowflake tenant data is not requested, accessed or stored in Slingshot
- Data requests limited to a subset of account and organization usage tables through restricted data collection and sharing scripts

#### HOSTING

- Hosted in AWS
- Supports any Snowflake commercial region or cloud provider in North America
- Resiliency: Highly available with multiple Availability Zones
- Highly scalable
- Uses tenant isolation to support multi-tenant architecture

#### ACCESS

- Cloud trail/logs captured when licensed users access Customer Data
- Customer data access driven by RBAC
- Snowflake account URLs, usernames, passwords, predefined/allow-listed IP range are preferred

#### SECURITY

- **Federated Identity**: SSO, SAML, OIDC
- **Network**: Modern cloud application built with layers of network defense
- Supports multi-tenant architecture through Dynamic IAM Policies
- **Data**: Encrypted data at rest and in transit

Learn more about Slingshot and Capital One Software at [capitalone.com/software](http://capitalone.com/software)