

# Product Marketing Update

**What's New in 6.0.11 - Oct/Nov 2021**

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# Data Management



# What's New: Data Management

Jun-Jul / 6.0.9

## Data Control Tower

- DCT Multicloud - API Gateway
- Expanded APIs
- Expanded Telemetry

## Data Sourcing & Connectors

- Oracle EBS Multi-Tenant
- DXI - Docker Image Update

Aug-Sep / 6.0.10

## Data Control Tower

- Expanded APIs
- Accessibility Improvements
- DCT Multicloud - Docker Image Update

## Virtualization

- Expanded APIs - Data Versioning

## Data Sourcing & Connectors

- Ingest from Azure SQL Backup
- Oracle CDB Attach/Detach
- Oracle RAC - Provision Latest Point
- HANA Plugin - Port Control
- Storage Support for NFSv4

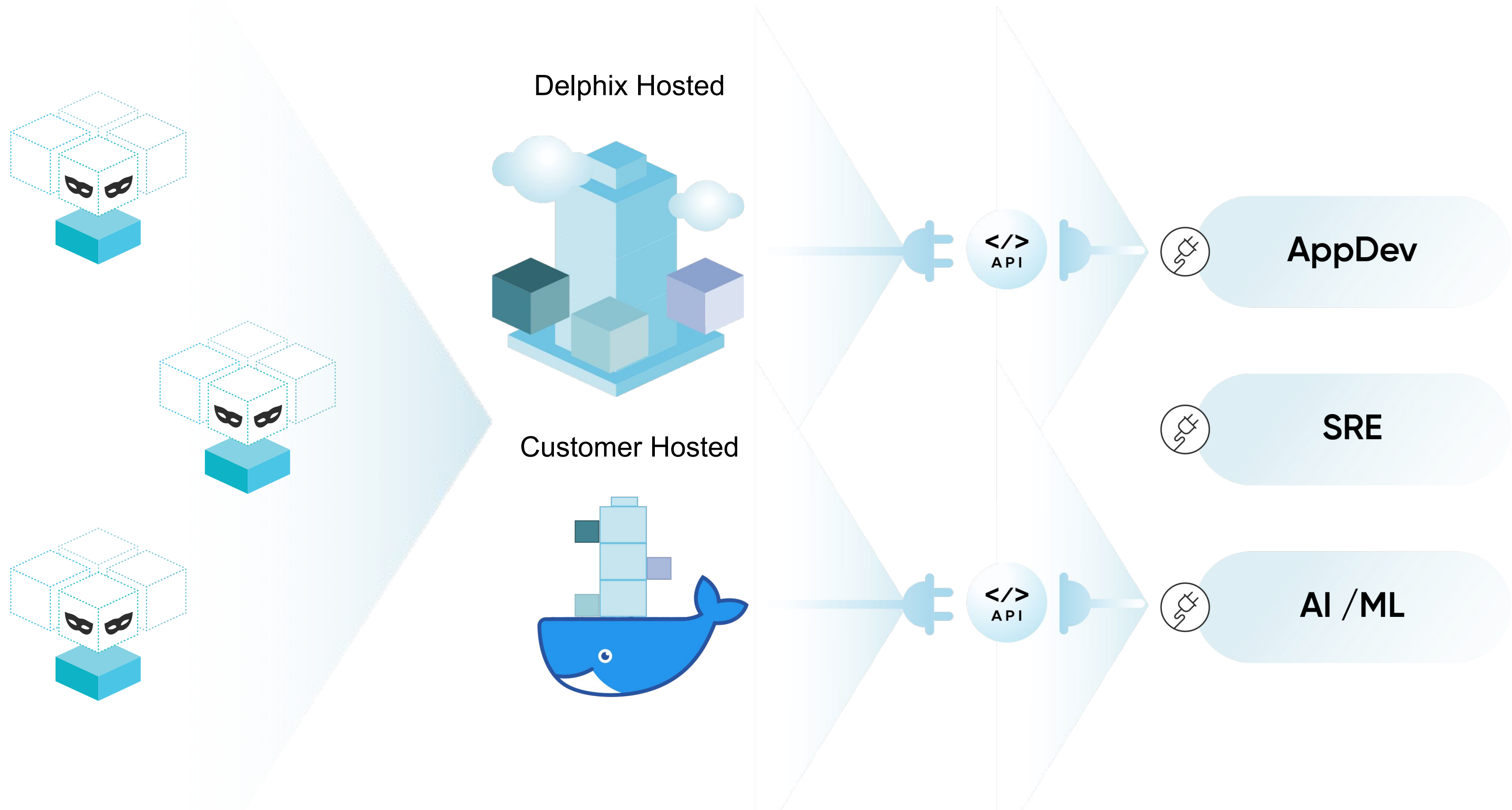
Oct-Nov / 6.0.11

## Data Control Tower

- Entitlements Portal
- SOC1 Type 1 Certification
- Expanded APIs
- Storage Reporting

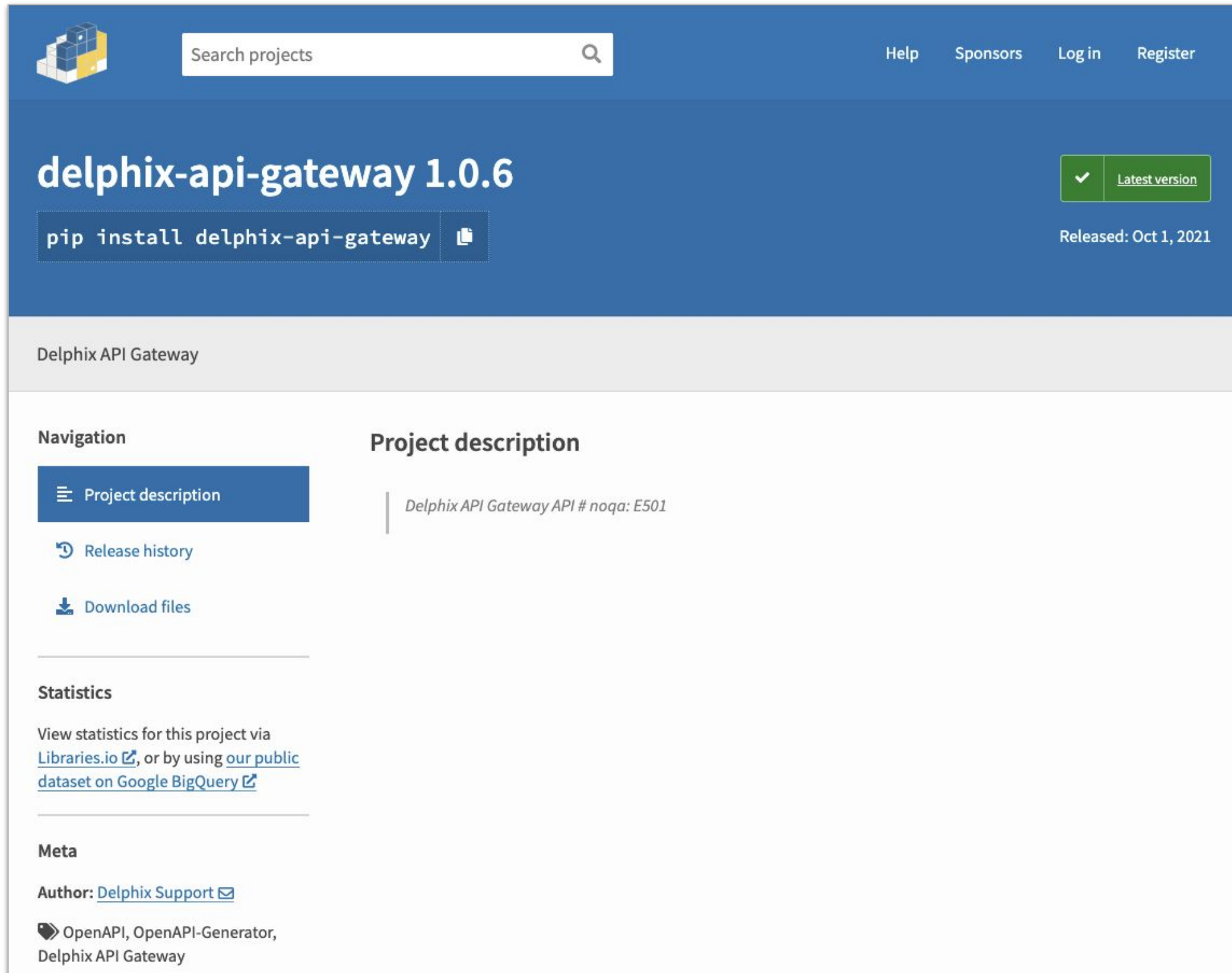


# Data Control Tower API Gateway SaaS or Self Hosted





# Introducing Python SDK for Data Control Tower (DCT) Multicloud



The screenshot shows the PyPI project page for 'delphix-api-gateway 1.0.6'. The header is blue with the Delphix logo, a search bar, and links for Help, Sponsors, Log in, and Register. The main section features the project name 'delphix-api-gateway 1.0.6' in large white text, a green 'Latest version' badge, and a green button with a checkmark. Below this is a code block showing the installation command: `pip install delphix-api-gateway`. The release date 'Released: Oct 1, 2021' is also visible. The page is divided into sections: 'Delphix API Gateway' (header), 'Navigation' (left sidebar with links for Project description, Release history, and Download files), 'Project description' (main content area with the text 'Delphix API Gateway API # noqa: E501'), 'Statistics' (with links to Libraries.io and Google BigQuery), and 'Meta' (with author information 'Delphix Support' and a list of related projects: OpenAPI, OpenAPI-Generator, and Delphix API Gateway).

delphix-api-gateway 1.0.6

`pip install delphix-api-gateway`

Released: Oct 1, 2021

Delphix API Gateway

**Navigation**

- Project description
- Release history
- Download files

**Project description**

Delphix API Gateway API # noqa: E501

**Statistics**

View statistics for this project via [Libraries.io](#), or by using [our public dataset on Google BigQuery](#)

**Meta**

Author: [Delphix Support](#)

OpenAPI, OpenAPI-Generator, Delphix API Gateway

- Python SDK available on [Pypi.org](https://pypi.org)
- Includes code examples for fast onboarding
- Quickly get started with python APIs
- Automate DevOps & SREs data workflows
- Easy PIP install through Python



# Expanded DCT APIs Interactive OpenAPI Docs at [api.delphix.com](https://api.delphix.com)

Code

Description

Links

200

OK

No links

Media type

application/json

Controls Accept header.

Example Value | Schema

```
{
  "items": [
    {
      "id": "source-123",
      "database_type": "Oracle",
      "name": "production01",
      "database_version": "12.1.0.2",
      "environment_id": "prod01",
      "data_uuid": "173431",
      "ip_address": "192.168.1.1",
      "fqdn": "prod01.myhost.com",
      "size": 856981504,
      "jdbc_connection_string": "(PORT=1521)(CONNECT_DATA=(SID=prod01))",
      "plugin_version": "1.0.0"
    }
  ],
  "errors": [
    {
      "message": "string",
      "object_name": "string"
    }
  ]
}
```

GET

/sources/{sourceId}

Get a source by ID.

api.delphix.com/v1/api-docs/##

Sources

GET

/sources

List all sources.

GET

/sources/{sourceId}

Get a source by ID.

DSources

GET

/dsources

List all dSources.

GET

/dsources/{dsourceId}

Get a dSource by ID.

VDBs

GET

/vdb

List all vdb.

GET

/vdb/{vdbId}

Get a VDB by ID.

Bookmarks

GET

/bookmarks

List all bookmarks.

POST

/bookmarks

Create a bookmark at the current time.

GET

/bookmarks/{bookmarkId}

Get a bookmark by ID.

DELETE

/bookmarks/{bookmarkId}

Delete a bookmark.

POST

/bookmarks/{bookmarkId}/restore

Restore VDBs to the bookmark creation time.

Schemas

## Expanded DCT SaaS APIs for:

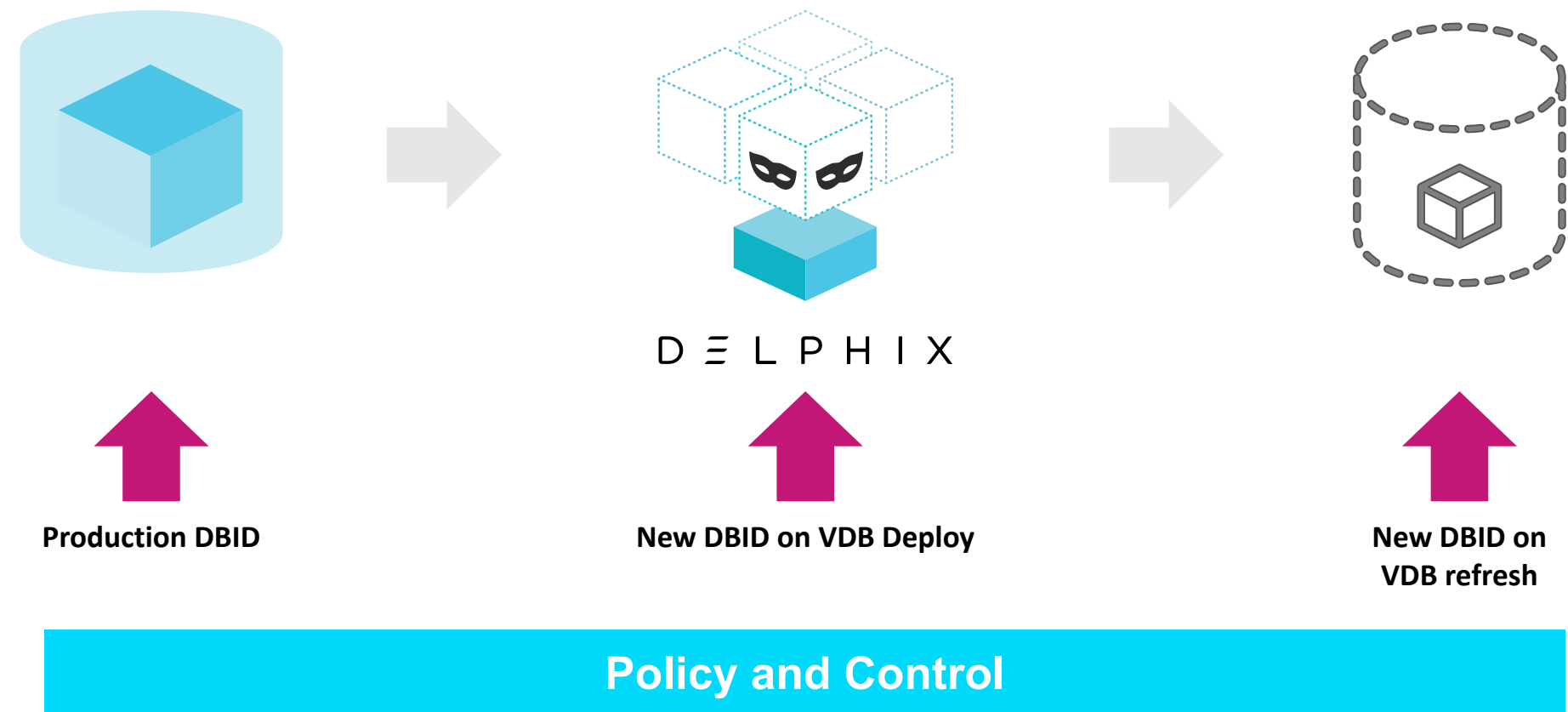
- Engine Inventory
- Data Inventory
- Environment Inventory
- Bookmark

## Expanded DCT Multicloud APIs for:

- Job
- Snapshots
- VDB Operations
- VDB Provisioning



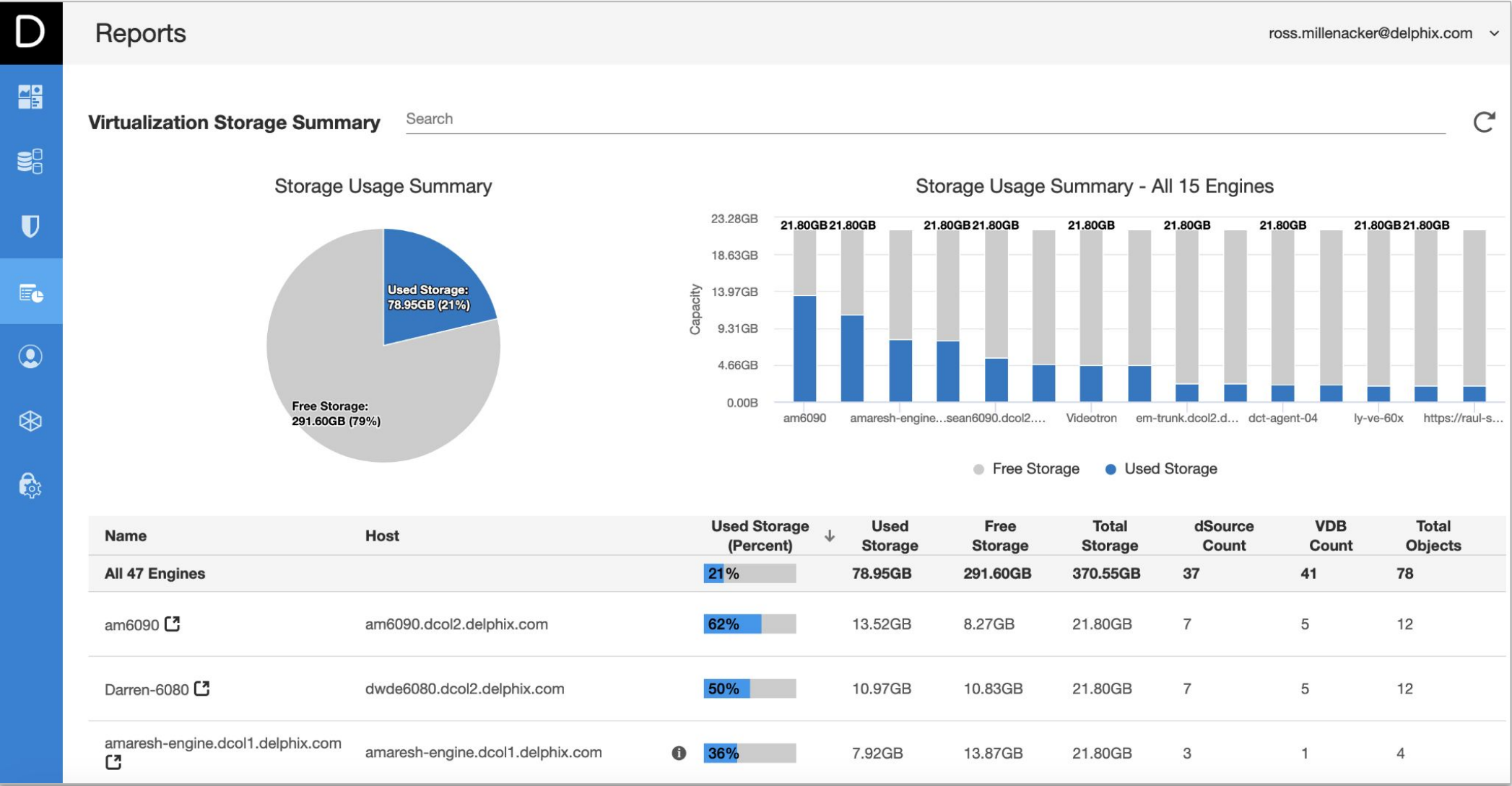
# Updated Change Oracle DBID on VDB Refresh



- Enables changing of DBID after provisioning
- Subsequent VDB refreshes get new DBIDs



# New DCT Storage Reporting Dashboard



- Review & manage storage footprint for Delphix deployment using the DCT Web UI
- View aggregate dSource and VDB Counts
- Quickly identify free storage issues
- Understand total data footprint across the organization or regional offices



# Data Compliance & Masking



# What's New: Data Compliance & Masking

6.0.9

## Masking Algorithms

- Email Batch Shuffle 6.0.9
- Custom Tasks 6.0.9
- Full Name 6.0.8
- Algorithm Chaining 6.0.8
- Payment Cards 6.0.7
- Date Replace/Shift/Multicolumn 6.0.7
- Multi Input/Output 6.0.6

## Integration & Automation

- Extensibility SDK
- SSL for Oracle/SQL Server 6.0.6

6.0.10

## Masking Algorithms

- Updated - Email Mapping
- Updated - Phone Masking
- Migration APIs to list and replace legacy algos

6.0.11

## User Interface

- Updated - Look & Feel
- Extended - Algorithms UI

## Masking Algorithms

- Updated - Binary Lookup Performance

## Integration & Automation

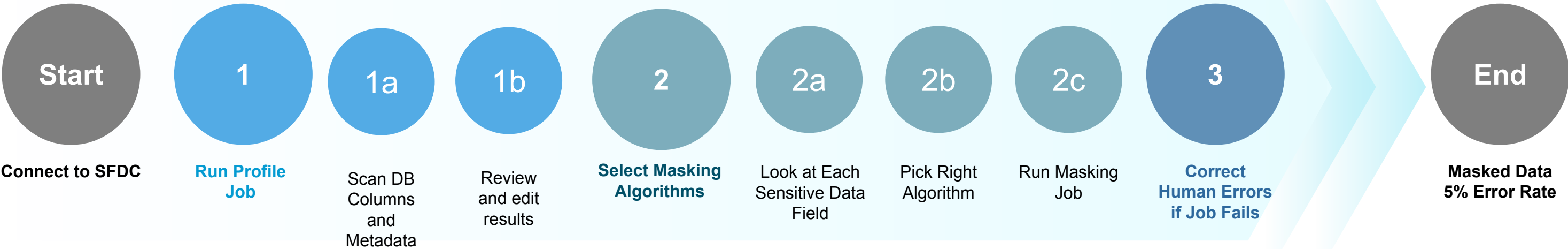
- Enhanced Oracle Connector
- Salesforce Compliance Accelerator



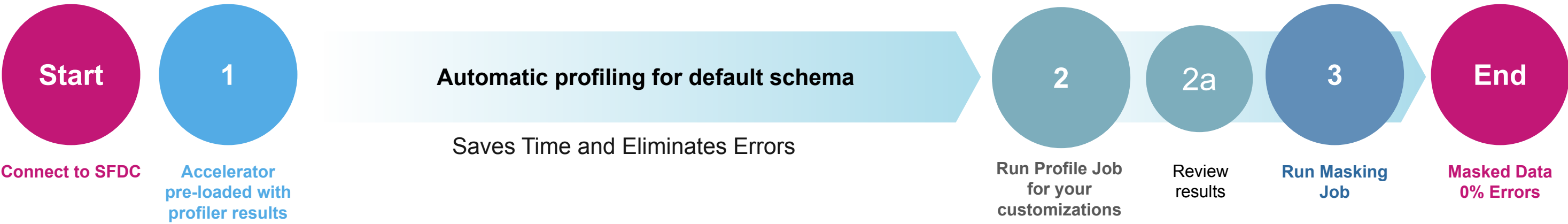
# Salesforce Compliance Accelerator

Automatic Data Discovery and Masking

Traditional



Accelerated



Sensitive data discovery and masking algorithm assignment is ready, **out of the box**, for Salesforce default schema



# Updated Masking Connector Improvements for Oracle

## Create Masking Job

**Job Name**

**Commit Size**

**Feedback Size**

**Masking Method**

**Target:** env

☐ Multi Tenant

**Rule Set**

☒ Batch Update

**Pre SQL Script**

**Post SQL Script**

**Enable Tasks**

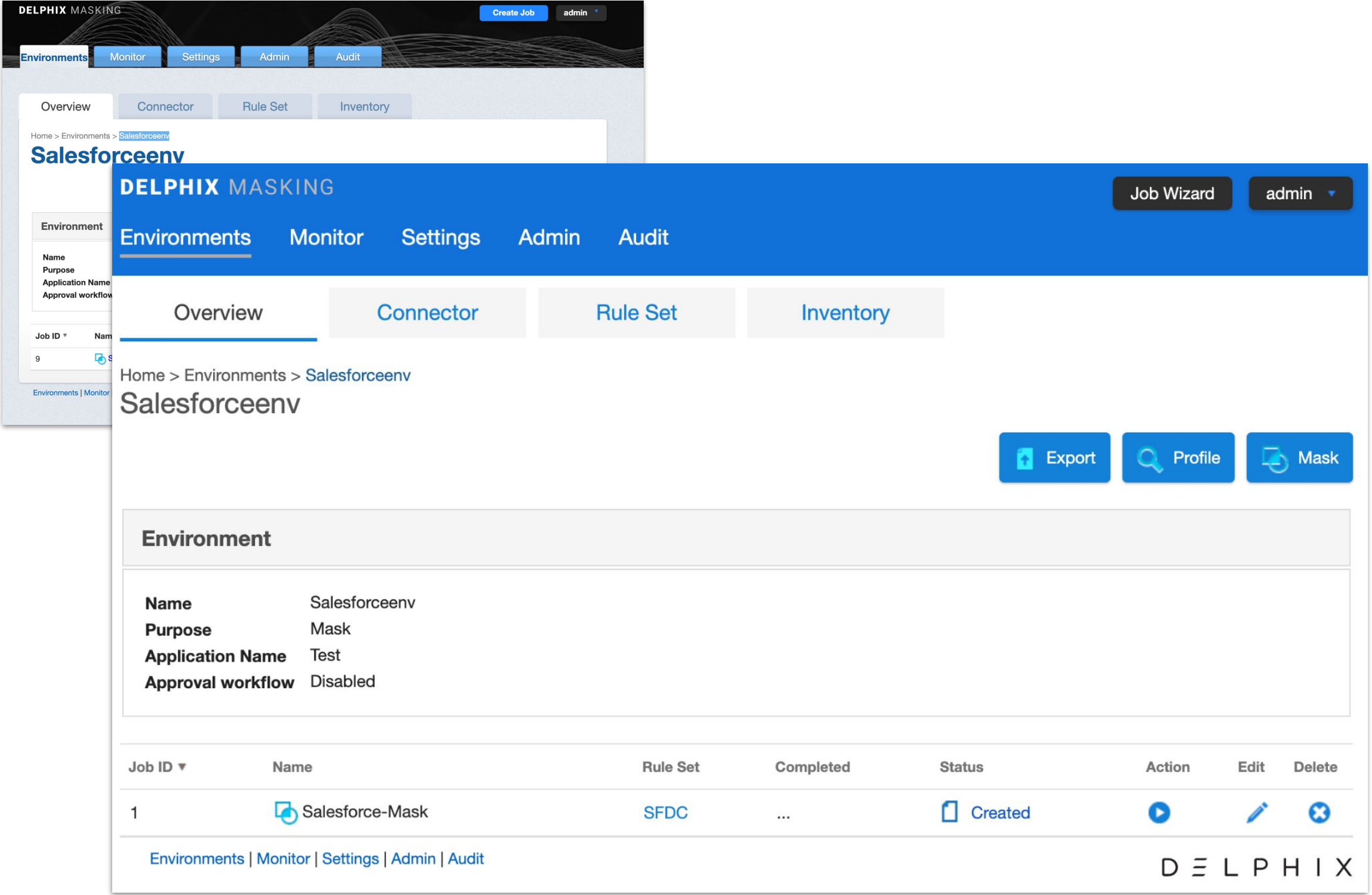
### Enable Tasks

<input type="checkbox"/>	Execution Order	Task Name
<input type="checkbox"/>	1	Disable Constraints
<input type="checkbox"/>	2	Drop Indexes
<input type="checkbox"/>	3	Disable Triggers

- Improves performance and functionality over previous version
- Leverages new drive SDK framework released in 6.0.9
- Added masking options for: Disable Constraints, Drop Indexes and Disable Triggers.



# Updated UI Look & Feel





# New Extended Algorithms UI

### Select Framework

Secure Lookup

Character Mapping

Payment Card

Date

Name

Full Name

Email

Dependent Date Shift

Segment Mapping (legacy)

Mapping

Binary Lookup

Tokenization

Min Max

Data Cleansing

Free Text Redaction

Extended

### Edit Extended Algorithm

Select Framework [Details](#)

Algorithm Name

exampleRegex

Description

Configuration JSON

```
{
  "trimInput": true,
  "requireMask": true,
  "maskPatterns": [
    {
      "regex": "([1-9][0-9]{9})(.*)",
      "actions": [
        {
          "type": "APPLY_ALGORITHM",
          "algorithm": {
```



# Updated Binary Lookup V2

Before  
Binary  
Lookup



After  
Binary  
Lookup





# Ransomware Protection & Security



# What's New: Ransomware Protection & Security

## 6.0.9

### Data Vault

- Data Vault API/CLI Launch (6.0.8)
- Web UI for Data Vault

### Security

- TLS 1.3 - Upgraded network security
- Password Vault for hooks - Introduction

## 6.0.10

### Security

- Password Vault for hooks - UI available

## 6.0.11

### Security

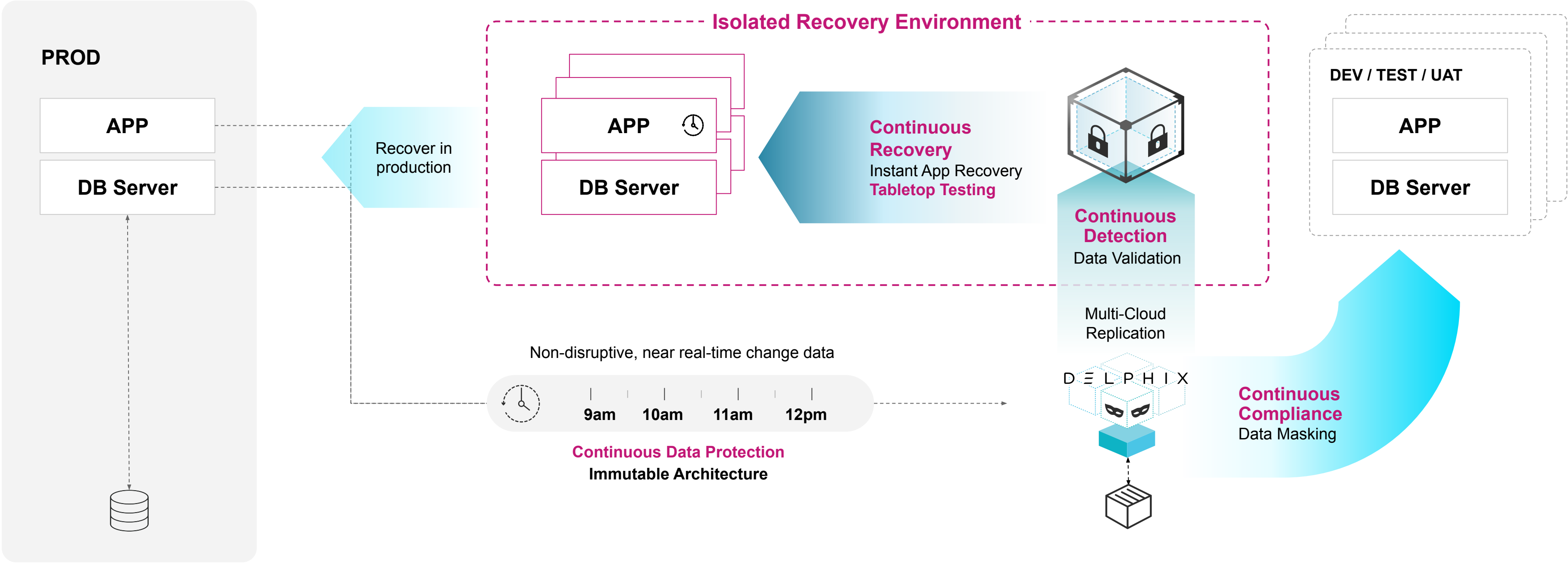
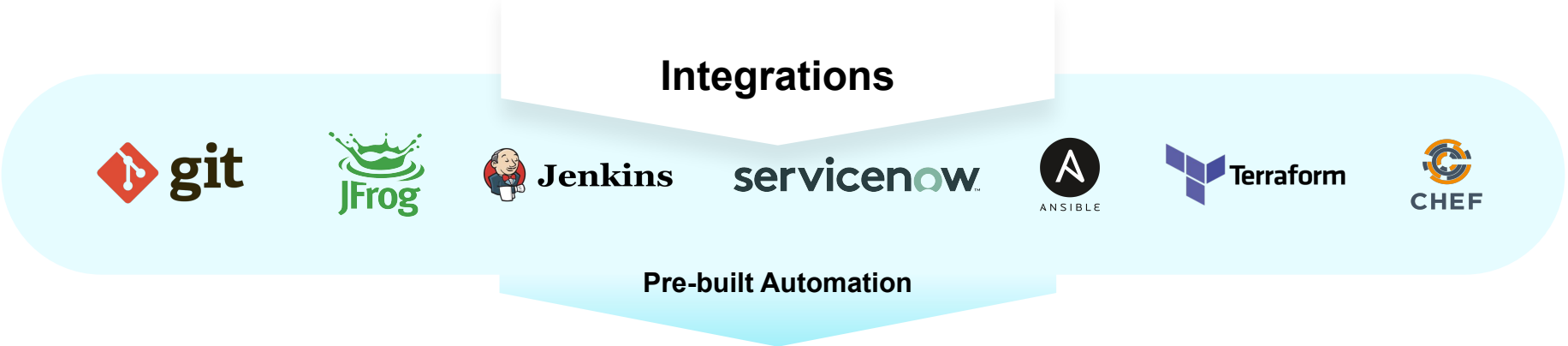
- Oracle TDE Re-Key on VDB Deployment
- OAuth 2.0 Support - Secure tokens
- TLS 1.0/1.1 Deprecation



# Continuous Ransomware Protection

## API-driven data operations

- Provision / refresh / tear down
- Profile / mask
- Bookmark / branch / share
- Environment cleanup





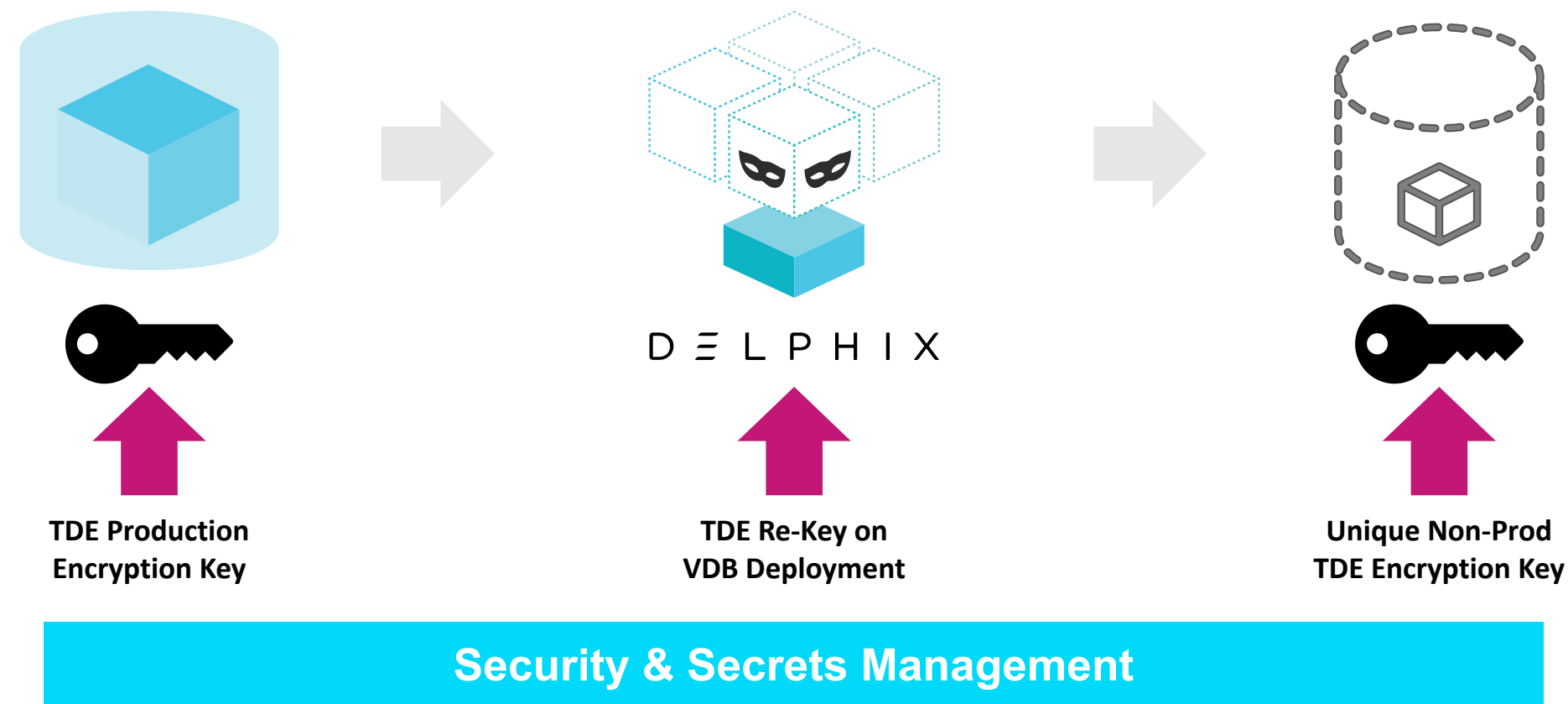
# Introducing **OAUTH 2.0 for Virtualization & Masking**



- Now works with Masking & Virtualization APIs
- Extends existing OAuth 2.0 support (previously only available in DCT ([api.delphix.com](https://api.delphix.com)) to include direct API calls to delphix engines
- Improves security for API calls
- Enables token authentication for APIs vs SSO or login/password used in the web interface



# Introducing Oracle Multi-Tenant Support for TDE Re-key



- Leverage TDE Re-Key on Oracle MT Databases during VDB deployment
- Prevent key re-use between environments; Use unique keys for production & non-prod
- Automate key store sanitation to meet security policies and controls
- Allows teams to meet recommended security compliance standards for non-prod



# Appendix A: Recent Updates



# Coming Soon

# Tokenization

Before  
Tokenization

Ridley, 1003 Stant Drive,  
123-45-6789

Jason, 45 Omega  
Suites,123-45-6789

After  
Tokenization

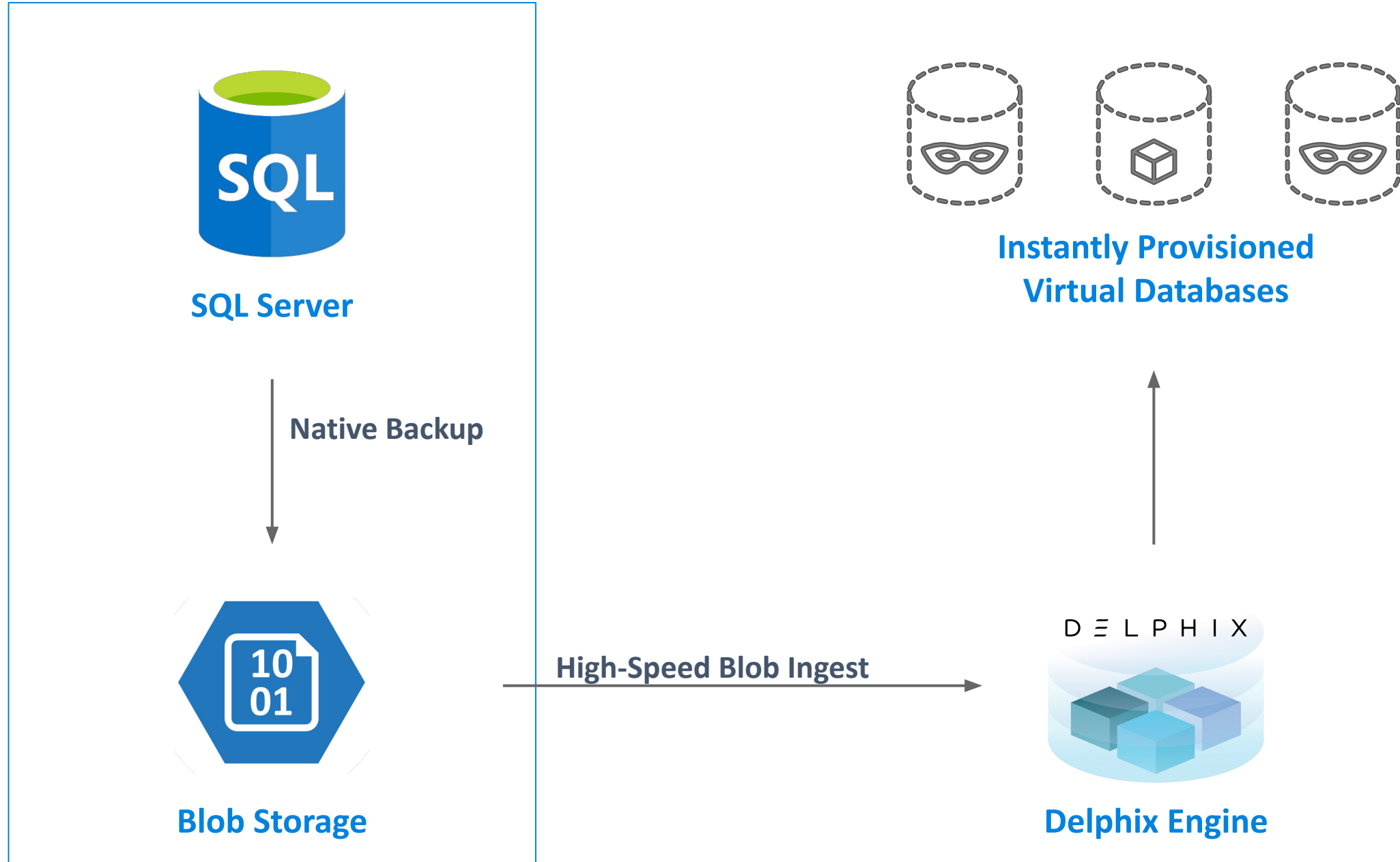
Erasmus,  
L1kgrFFRzafOTUqfpZA  
miC==,123-45-6789

Jason,  
C4v5jrImKEhKC3acnQ  
KqEk==,123-45-6789



# Ingest SQL Server backups from **Azure Blob Storage**

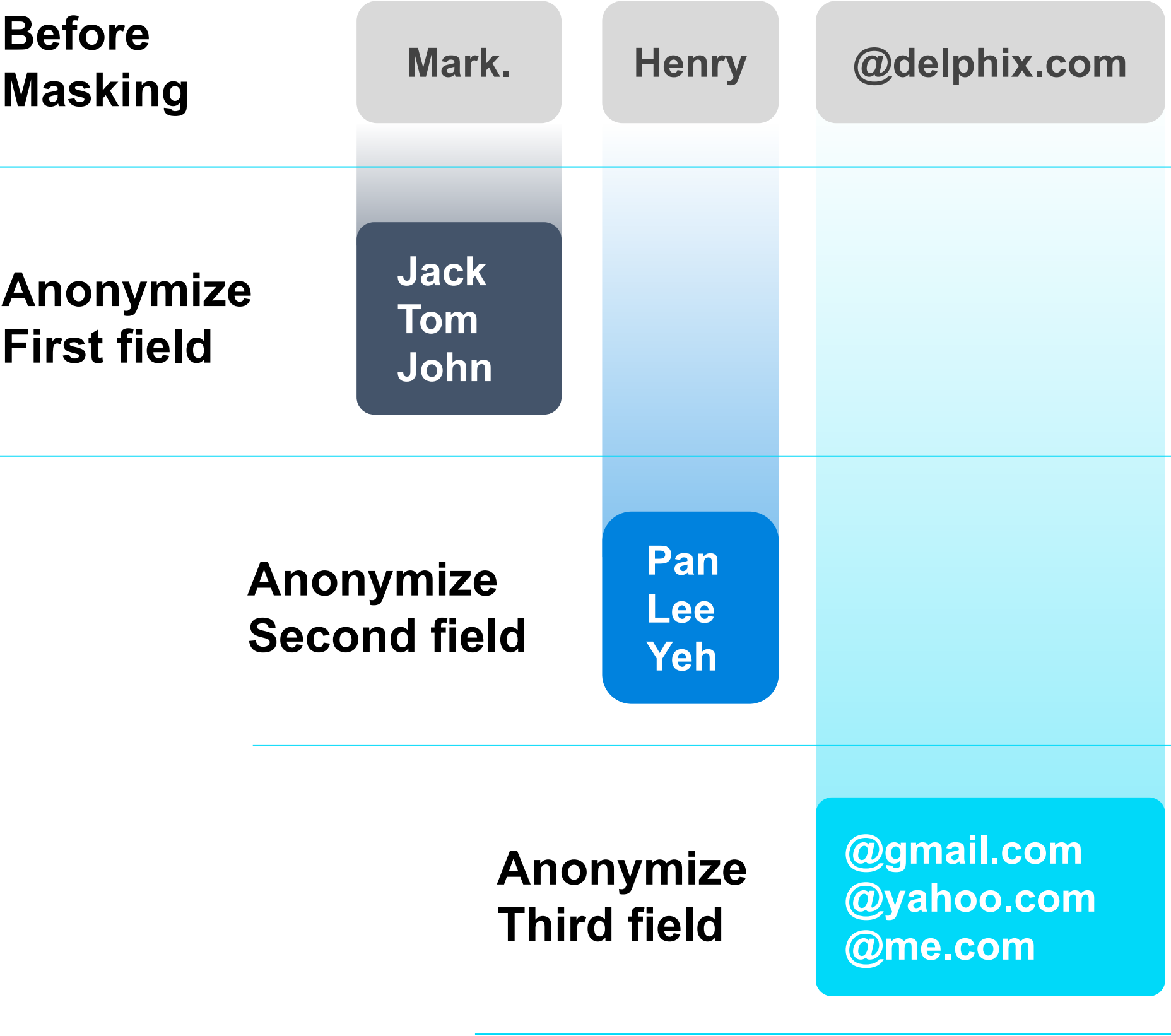
 Microsoft Azure



- High-speed direct ingest from Azure Cloud
- Easy deployment without scripts
- Non-disruptive to production environments
- Reduce end-to-end lag for VDB availability



# New Chaining Algorithm



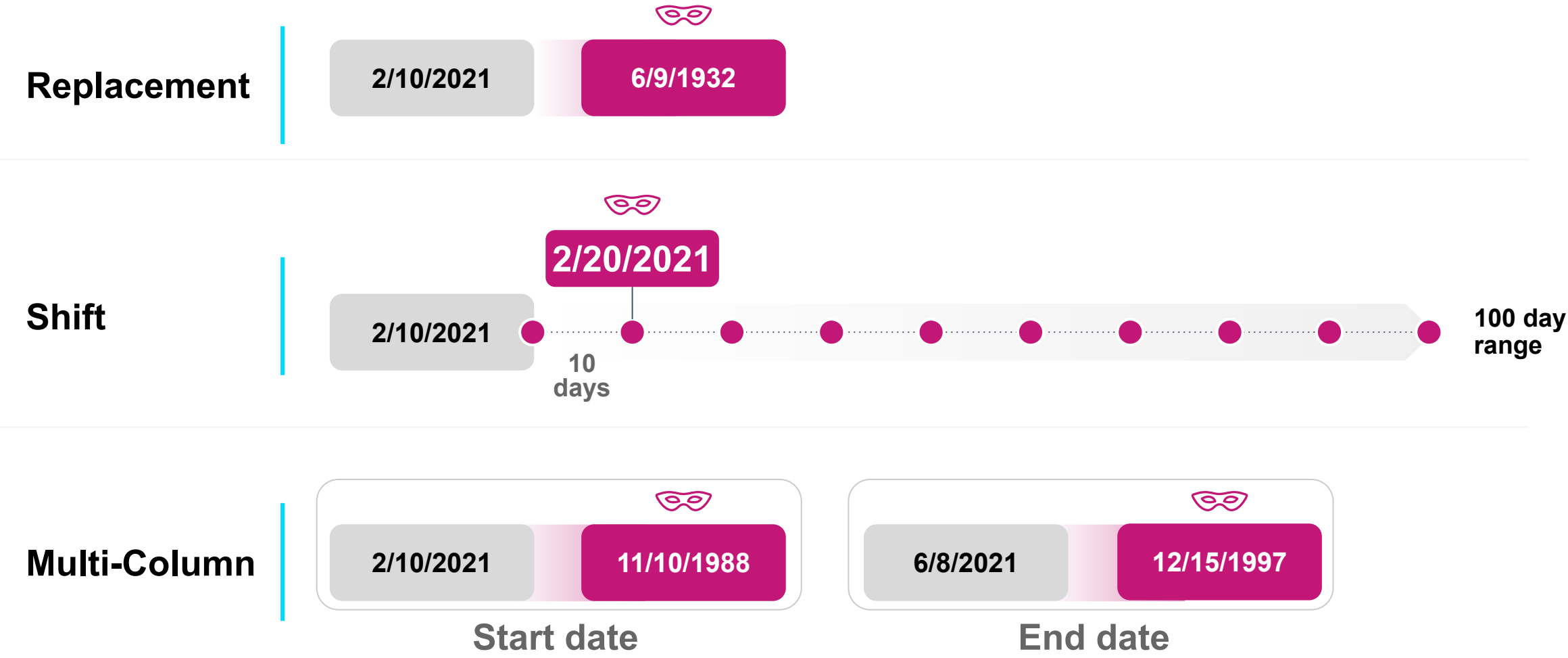


# New Full Name Algorithm

	Mark	Henry
First Name	John	
Last Name		Smith
Full Name	John	Smith



# Updated Dates





# Updated Payment Cards

Before  
Masking

4299

8755

6713

8094

After  
Masking

4299

1893

5924

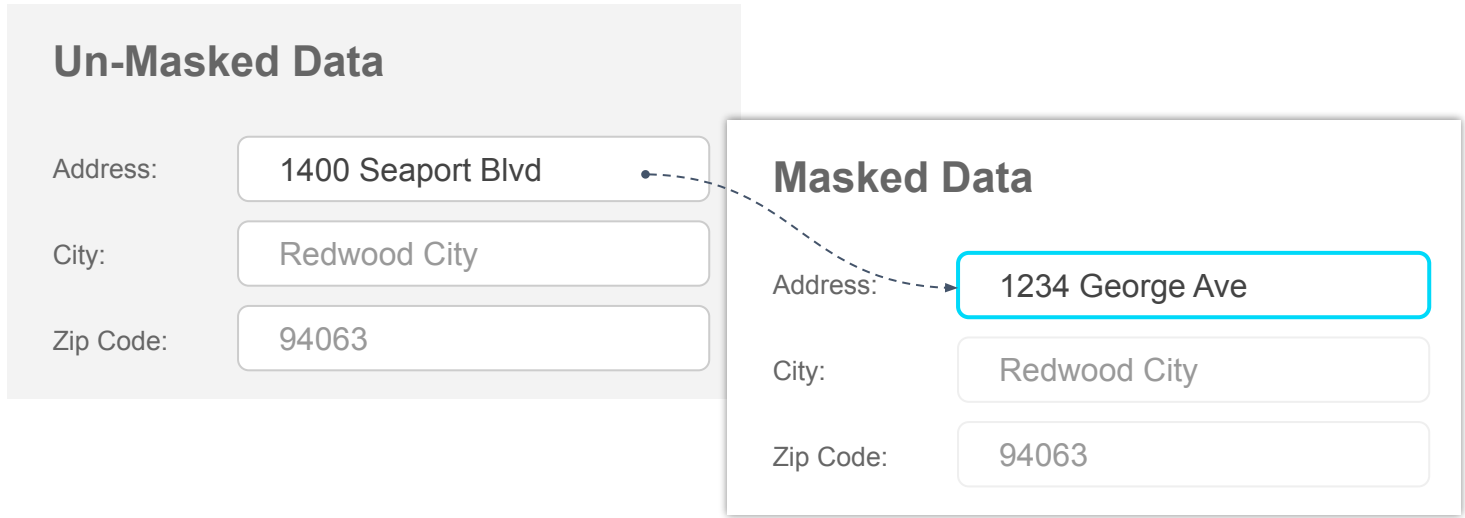
3918

Masks last 12 digits



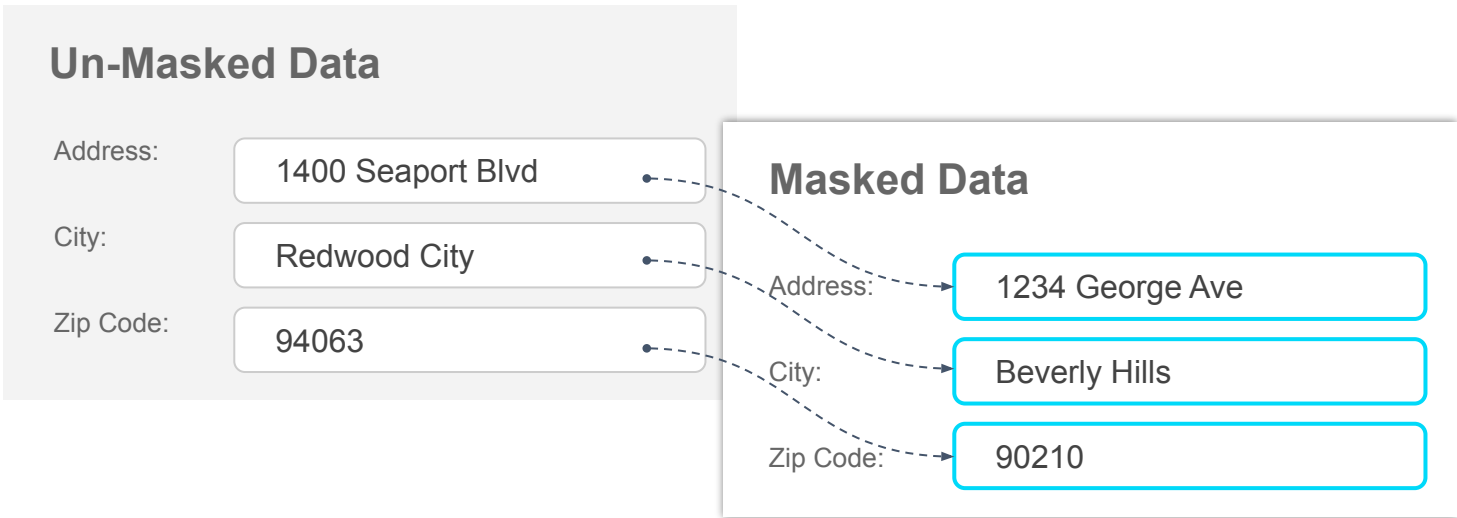
# New Multi-Column Input-Output

## Single Column I/O



Data is changed one column at a time

## Multi-Column I/O



Data from multiple columns is changed simultaneously