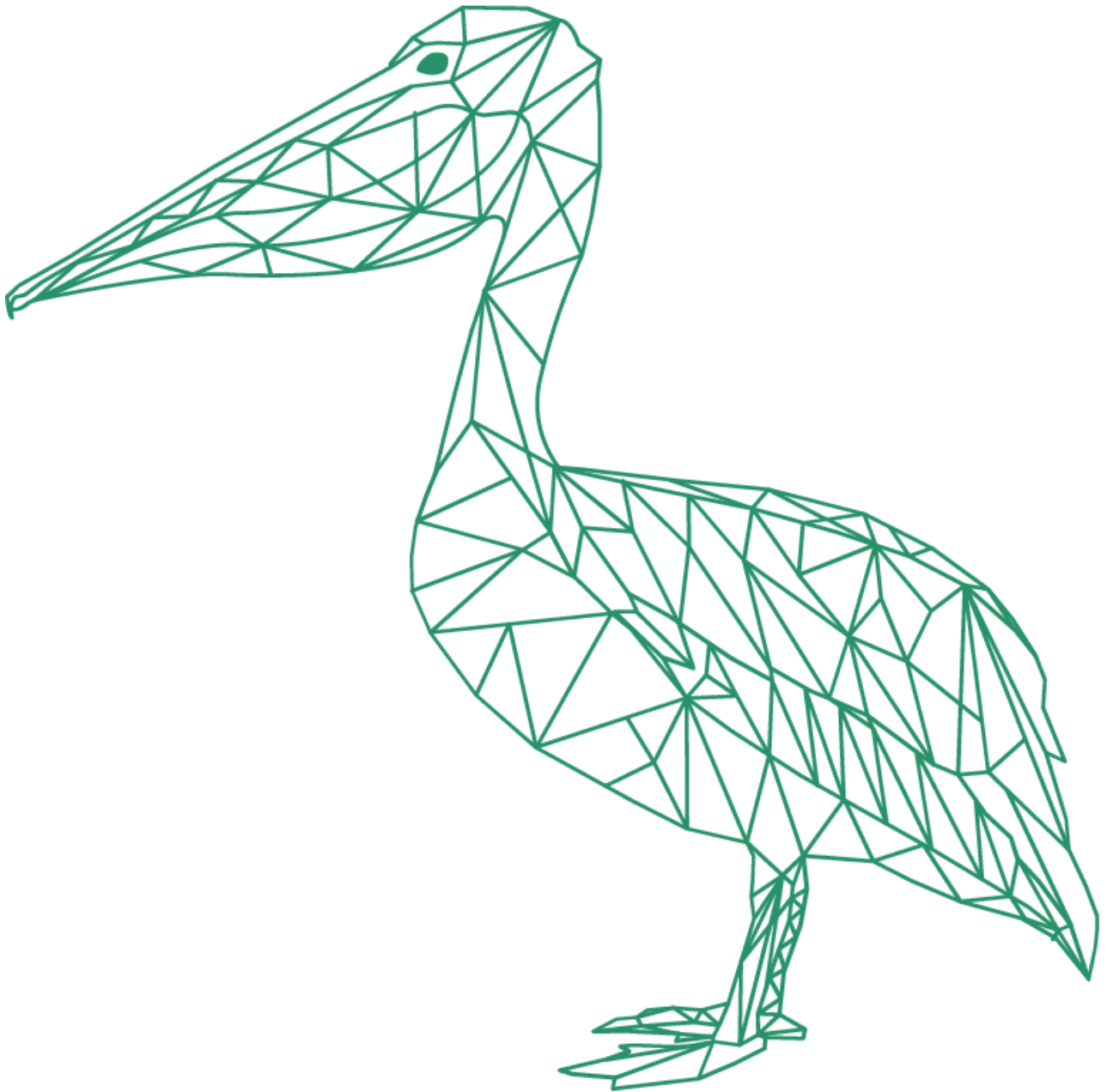


# Pelican Deployment Document



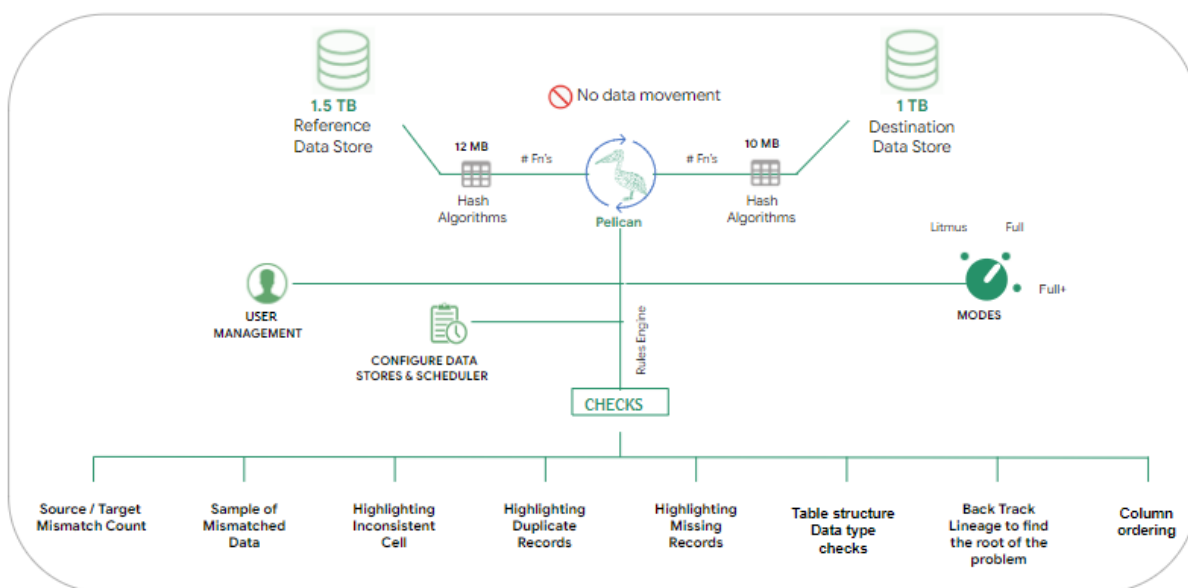
# Table of Contents

<b>1. Introduction</b>	<b>3</b>
<b>2. Architecture</b>	<b>3</b>
<b>3. Deployment Methods</b>	<b>4</b>

# 1. Introduction

This document contains a brief overview of the Pelican deployment process

# 2. Architecture



The purpose of this document is to provide a comprehensive overview of the architecture and its key components. It aims to describe the overall structure and functional aspects of the product. The architecture can be categorized into two primary components:

## PELICAN Machine:

PELICAN requires a baseline VM/GKE cluster with the following specifications:

- PROD: 64 cores, 240GB of RAM, and a minimum of 128GB of persistent disk.
- NON-PROD: 32 cores, 120GB of RAM, and a minimum of 128GB of persistent disk

In case of heavy validation needs, the configurations will need to be adjusted accordingly.

## Source/Target Systems:

The PELICAN application establishes connections to the source and target systems using JDBC authentication and service account authentication mechanisms. PELICAN requires the creation of

temporary databases/datasets for its processing. The JDBC user/service account must have full access to these temporary databases/datasets.

## 3. Deployment Methods

Our product supports a range of deployment methods, providing flexibility and ease of integration for various environments. With our solution, you can seamlessly deploy your applications and services using diverse approaches tailored to your specific needs. Whether you prefer traditional on-premises deployments, cloud-based solutions, or hybrid models, our product empowers you to choose the deployment method that best suits your requirements.

The supported deployment methods are summarized below.

Supported Deployments	On-Premises	On Cloud		
		GCP	Azure	AWS
<b>Standalone</b>	VM (Docker and Podman)	VM	VM	VM
<b>Orchestrated</b>	Kubernetes	GKE	AKS	EKS