



Power Up with Our Team, Power Forward with Our Code

Let's build our future, together



Top Talents

300+



Projects

80+



Experience
07+

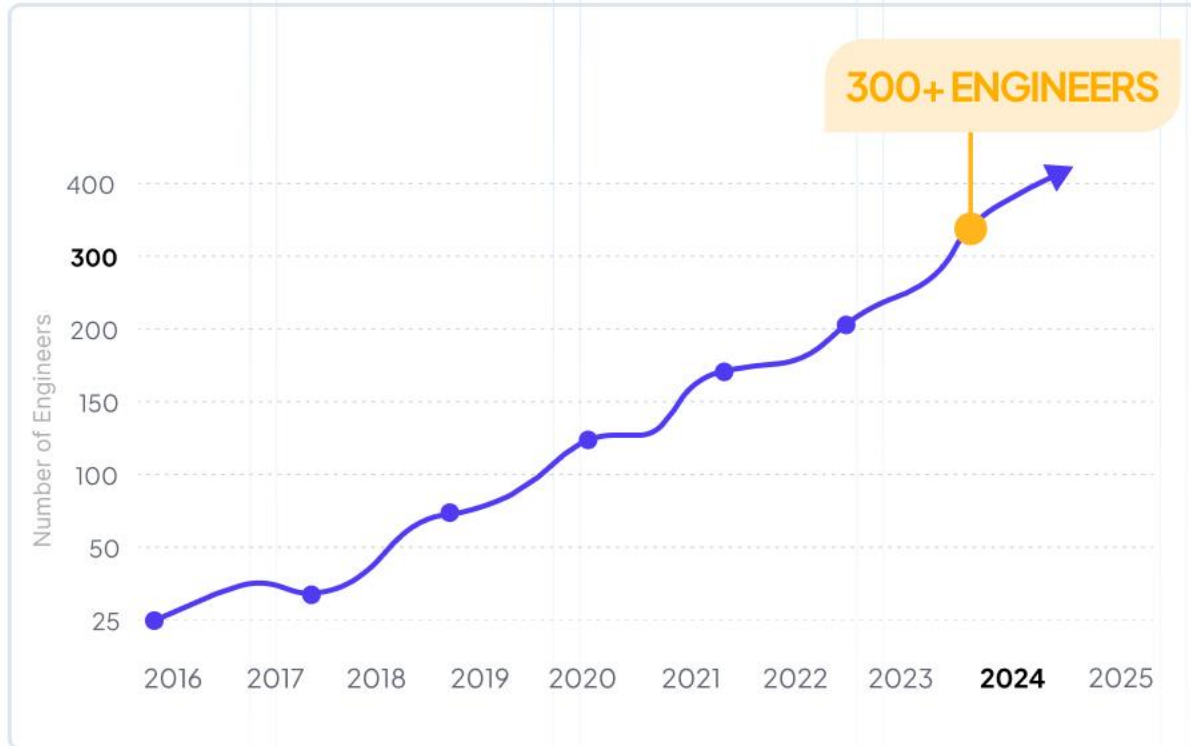


Tech Stack

20+



Leading Software Development Company in Bangladesh



Starting in a tiny rooftop, we are now at the heart of the capital city with a **25K square feet office**

We have grown **10 times over 8 Years**

We are more than a generic agency. We align with your business and work to achieve the same goal.

Team Augmentation

Our developers work with you, as part of your team.

MVP As a Service

We boost your business with our skilled developers, crafting successful MVPs.

End to End Development

We solve any problem that you have and deploy them too.

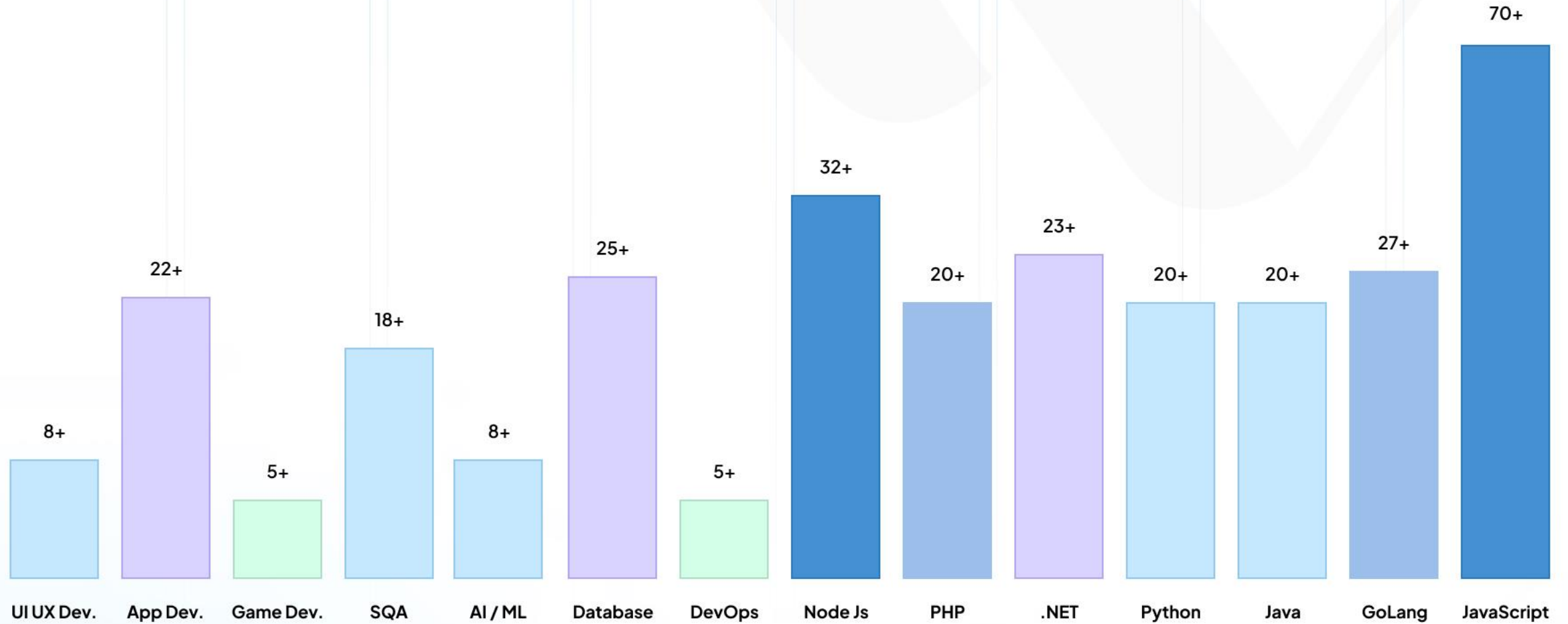
Offshore Office Expansion

We drive growth in your business with our skilled resources and offshore expertise.

Technology We Use



Our Experties



Key Players



Bhuiyan Mohammad Iklash

Mr. Iklash has 26+ years of experience demonstrating skills in software development, network development, and implementing new solution concepts on a local and global scale. Some of his significant works are designing and developing the prototype of the eBook system, developing Embedded HTML Server (EHS) in DOS using a TCP/IP stack and RTOS from On-Time Informatik. He is now leading a software development team for developing secure communication systems and platforms for distance education.



Tusher Islam

Tusher Islam is one of the most thriving and talented developers in Vivasoft. He has established his proficiency in building highly scalable, high traffic ad serving engines where the performance of his product has been superior in every way serving 35 billion impressions on average daily at times peaking at 40 billion with ease



Abdul Mukit

Abdul Mukit is a solution architect at Vivasoft. He worked previously at Pathao where he was assigned the task of structuring and stabilizing the architecture that he scaled up from 50k users unstable to half a million users stable while cutting the infrastructure cost by 80%.



Tareq Mohammad Yousuf

T M Yousuf is a highly skilled backend and software architect with a career spanning 18+ years. He has experience in Java (11+ Years), PostgreSQL (14+ Years), C, C++, PHP, MySQL. In Azerion, Ad tech; he is working in SSP (Server Side Platform). He was the core developer and architect of a Telephony System and Call Center software.

Major Projects



Iceberg

Advertisement Server

Iceberg Ad Server is the cornerstone of online advertising strategies. Its meticulous screening process ensures effective ad placements across B2B and B2C businesses.

Technology Used

 Java	 JS	 ASP.NET	 Kotlin
 cassandra		 aws	 MySQL

34B

Request handled smoothly with iceberg.

Everyday !

Key Features

- General Ad Serving
- Targeted Ad Serving
- Demographic Data Analysis
- Ad Performance Monitoring
- Professional Support System
- Custom Reporting

Major Clients

	 Audi	 Rakuten	 ebay	 The Guardian
 Disney	 TESCO	 L'ORÉAL	 The Telegraph	
 mediacom	 dailymotion	 MEDIA GROUP		

Major Projects



MyCash

Mobile Financial Services (Somalia)

MyCash app is a virtual money based app where the users can deposit and use their money whenever it's needed. This is a whole MFS system that can help people to organize their money and distribute them properly. MyCash offers mobile financial services by combining a banking network with mobile wireless networks. Such networks allow individuals to input money, make deposits, make withdrawals, and send and receive funds using mobile apps or USSD

Technology Used



200K Registered Users

2M \$ Transaction Daily

Amtel Somalia

Key Features

- Send & Receive money
- Remittance send and receive
- Cash in and out
- Bank Transfer
- Merchant payment
- 3 levels of agent hierarchy
- Transaction history
- Email & SMS notification
- Reporting module
- Customer Care functionalities
- Android & iOS app

Major Projects



Klikit

Food Order Aggregator (Singapore, Philippines, Malaysia, Australia, Indonesia, Japan, Taiwan - Global)

All-in-one solution for merchants. Maintaining a food brand on multiple food delivery platforms isn't easy. With Klikit, restaurants can manage multiple food delivery companies from a single platform while growing their own online presence, significantly increasing efficiency and reducing time spent.

Through klikit restaurants can update menus, prices, and offers just once, with changes automatically synchronized across all platforms including their own. This seamless integration streamlines operations, allowing restaurants to focus more on their core business.

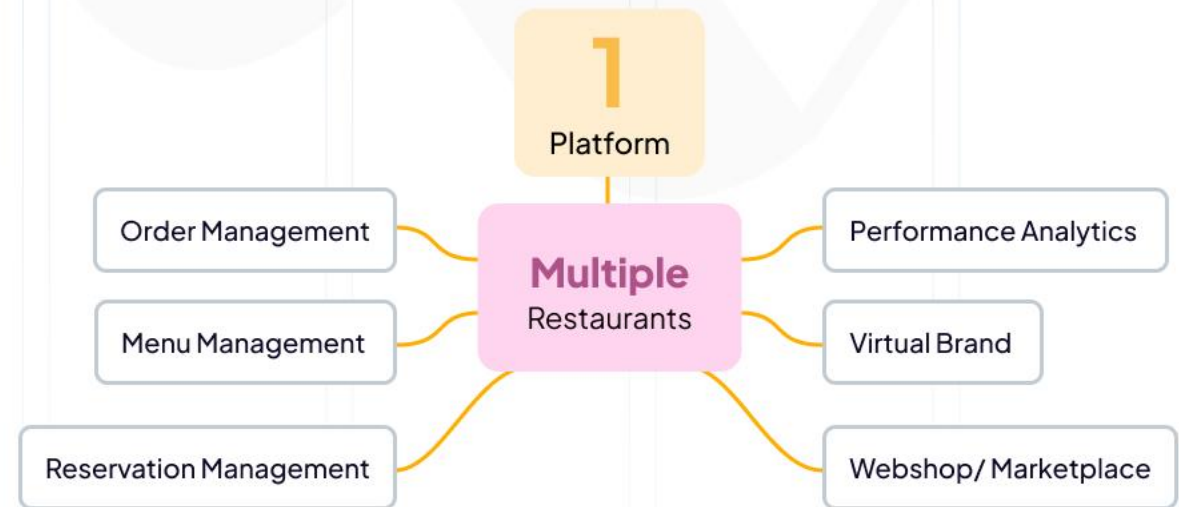
Technology Used



"I'm very happy with klikit Analytics, especially the sales per category metric, since it really minimizes our work"



Bryan Pineda
Operations Manager,
Kraver's Canteen



Integrated Platforms



Major Projects











Flarie

Advergaming platform (Netherland, Denmark, Sweden - Global)

Flarie is one of the leading entertainment companies for brands with a scalable platform for gaming to entertain and engage their audience dynamically on any device or touchpoint. Individuals can play games within the ads and earn incentives. Gaming authorities can customize existing game templates as per their requirements.

Technology Used

		 Google Tag Manager	
		 Terraform	

Key Features

- Custom game background and element
- Purchase real products from collaborative brands
- In built analyzing tool
- Advertisement performance analysis
- Awareness, likeability & consideration
- App, web & api integrations
- Product & Consumer Insights
- Lead generation with integrated funnel

Major Clients

Major Projects



NUMBERSKILLS

Number Skills

Power BI Solution Provider

Numberskills is a Swedish company that provides power BI solutions all over Europe. It solves data related reporting issues for companies.

Numberskills is proudly handling millions of data per month.

Application

On premise web based Application

Technology Used



Key Features

- 3rd party API integration
- Data warehousing
- Data processing with data factory
- SQL Server
- Application with processed data for end user
- Budget forecasting
- Reporting

Integrated Platforms



Major Projects



HR and Payroll Management Software (Bangladesh, Malaysia, Sudan, UAE, United Kingdom)

PiHR is a SaaS based fully integrated HR and Payroll management system. With PiHR the organisations can streamline their HR and payroll processes. It helps the management to reduce manual work, plan strategically and think out of the box to improve their business growth.

Technology Used



450+

Companies
Use PiHR Globally

Key Features

- Employee Attendance Management
- Employee Live Location Tracking
- Payroll Management
- Leave Management
- TAX Management
- Shift Management
- Provident Fund Management
- Gratuity Management
- Break time reconciliation

Notable Clients



Major Projects



Welteam

A Software to Boost Mental and Physical Fitness

Key Features

- Assessment tool to evaluate mental and physical fitness
- Fitness program of activities according to assessment
- Solo/Team fitness program management
- A Streamlined Member and Customer Dashboard
- Automated Billing and Payment
- Automatic Email Alerts and Notifications on Events
- Online/Offline Fitness Event Management
- Fitness Activity Progress Tracking
- Reliable Fitness Management Reporting and Analytics
- Leaderboard to Track Fitness Activity of Members



Duplicate Clinical
Trial Subject
Detection
Platform

Key Features

- Advanced search facility
- Token based security
- Role/Policy based Authentication and Authorization
- Maker-Checker Functionality
- Automatic Email Alert and Notification on Events
- Advanced Logging and Live Metrics
- User Activity Auditing
- 50+ insight-driven, explorative, and analytical reports



Seaport Taxation

Container and Cargo Tax Management

Dealing with the taxation of Import/Export industry is incredibly complex and laborious. Seaport taxation can manage the overall information and taxation process both for import and export. It reduces the hustles of day to day complex tax calculations and mitigates the error in tax processing.

Key Features

- Cargo Onboard and Off Board
- Berth Management
- Container Management
- Container Tracking
- Yard Management
- Levi Management
- Goods Management
- Container Tax management
- Goods Tax management
- Penalty Management
- Payment Management
- Release Management
- Import / Export Management
- 20+ Reporting

Technology Used



Major Projects



Ai Producer

Meeting Video Broadcaster

Ai Producer is an extension for Microsoft Teams. It's a Virtual Director which can broadcast meeting content (Shared Screen, Users Camera Feed) to several destinations based on some pre settings. It can broadcast video meetings in multiple destinations such as YouTube channel, Yammer, LinkedIn, Facebook workplace etc.

Key Features

- Integration with "Microsoft Teams" Software
- Production formats based on users' needs
- Viewers can follow the broadcasts in another Teams meeting, Teams Webinar, LinkedIn or a distribution platform of users choice
- Onedrive backup integration

Technology Used



Major Projects



Creating Awareness of
Water Usage Among
People

Toja Connected Water promotes awareness of water usage. It is promoted by a German company. An IoT device is connected to the water line. This device triggers alerts about water usage every three minutes. When a user uses more water, he has to pay more compensation. To have a positive connection with water, users have to compensate for a minimum of 120 percent of their actions.

Key Features

- Certificate generation for valuable customers
- Water usage tracking
- Custom dashboard
- Historical data analysis
- Both online and offline payment facilities
- Reports generation

Technology Used



Major Projects



GPS Ping

Live Location Tracking Service

GPS Ping is a live location service that holds requests coming from various points. Through this service, GPS Ping has the potential to process 10,000 requests per second. It can save historic GPS tracking data for 30 days. The ping drop or ping loss message can be displayed only if the tracking object stops somewhere.

Key Features

- Live Location Tracking
- Data Analysis
- Reporting

Technology Used



Golang



redis



One of the Largest Telco

MLOps Portal

Introduction

The MLOps portal empowers data scientists, machine learning engineers, and other data-driven roles to seamlessly deploy ML pipelines and monitor diverse operations. This comprehensive solution enhances collaboration and efficiency, providing a streamlined platform for tracking and optimizing the entire machine-learning lifecycle.

Problem Statement

The challenge is to develop a cohesive and efficient platform that seamlessly enables data scientists, machine learning engineers, and other data-driven professionals to deploy and manage ML pipelines.

Technology Used



Solution We Provided

- **Streamlined Deployment:** Seamlessly deploy machine learning pipelines for enhanced operational efficiency.
- **Collaborative Platform:** Foster collaboration among data-driven roles with a centralized space for ML operations.
- **Monitoring and Tracking:** Enable real-time tracking and monitoring of ML operations for transparency and accountability.
- **Optimization:** Analyze and optimize the entire machine learning lifecycle to support continuous improvement.
- **Enhanced Productivity:** Automate tasks and provide a user-friendly interface for managing ML workflows, boosting productivity.
- **Adaptability:** Ensure flexibility to accommodate evolving technologies and methodologies.
- **Documentation and Insights:** Provide comprehensive documentation and insights to maximize the MLOps portal's potential.
- **Compliance and Security:** Prioritize data security and compliance with robust measures to safeguard sensitive information.

Overview of the Project's Success

The MLOps portal automates the deployment and management of machine learning pipelines by extracting Bitbucket repositories and providing a user interface for monitoring deployment information, streamlining the process and reducing the need for manual intervention.

One of the Largest Telco

Airflow & Composer Version Migration

Introduction

The data engineering team needs to upgrade Airflow from version 2.2.3 to 2.6.3 and migrate from Composer 1 to 2 across their 900 DAGs, which process around 1TB of data daily. Additionally, they must ensure a smooth transition of Airflow history metadata to the new database while minimizing disruption to downstream teams, including data scientists, BI analysts, and data analysts, who rely on their workflows for critical insights and operations.

Problem Statement

Update the version of Airflow from 2.2.3 to 2.6.3 and migrate from Composer 1 to 2 across 900 DAGs in Google Cloud Platform, ensuring seamless transition and minimal disruption to workflows.

Technology Used

	 python™	 Build a Container Image using Cloud Build	 BigQuery
	 Apache Airflow	 PostgreSQL	

Solution We Provided

- 900 DAGs file code upgradation with new airflow version compatible
- Optimized cost-efficient Composer (Airflow environment) setup
- Infrastructure setup to perform database migration (Airflow history data)
- Database migration and DAGs migration
- Configured the CI/CD pipeline to the new Composer using Google Cloud Build

Overview of the Project's Success

The cost reduction was achieved through the implementation of dynamic Celery worker scaling during peak hours, allowing for resource allocation to scale up when demand is high and scale down during periods of lower activity. Additionally, efficiency was enhanced by grouping similar tasks within DAGs and leveraging parallelism, effectively reducing the overall execution time of DAGs. These optimizations not only minimize expenses but also improve the performance and responsiveness of the data processing workflows.

One of the Largest Telco

E-Invoice System Integration

Introduction

One of the largest telecommunications companies in Malaysia, sought to modernize its invoicing process by integrating a digital e-Invoice system. The company aimed to replace the traditional paper-based methods with a scalable and efficient digital solution, ensuring compliance with the Malaysian Inland Revenue Board (IRBM) while enhancing overall operational efficiency.

Problem Statement

This company needed a system to automate its invoice processing, validate tax details, and ensure seamless communication with the IRBM.

Technology Used



BigQuery



Golang



redis

Solution We Provided

- **Enhanced Automation:** This company e-Invoice processing was fully automated, reducing manual work and improving overall efficiency.
- **Scalability:** The solution was designed to handle over 600K rows of transaction data during peak billing cycles, ensuring that the company could scale its operations without disruption.
- **Cost Efficiency:** By using VMs and optimized architecture, the solution delivered significant cost savings.
- **Compliance and Security:** The system ensured compliance with IRBM regulations, with proper tracking, status updates, and secure storage of invoice data.

Overview of the Project's Success

Vivasoft's integration of the e-Invoice system for this company significantly streamlined their invoicing process, offering automation, scalability, and improved compliance. This digital transformation enhanced Maxis's operational efficiency while reducing costs and manual intervention.

One of the Largest Telco

Data Warehouse(Cyber Security Team)









Introduction

To develop a centralized data warehouse for the cybersecurity team, serving as the primary source of truth for all security-related data. This warehouse will be used for anomaly detection, quick analysis and reporting, auditing, data visualization, and historical data analysis.

Problem Statement

To Prepare a Data Warehouse for Cyber Security Team for almost 70+ Data Sources

Technology Used

Solution We Provided

- Designed the pipeline to dynamically handle data from over 70+ sources, ensuring comprehensive and flexible data integration.
- Developed a centralized data warehouse serving as the single source of truth for all security-related data.
- Utilized Apache Airflow for seamless orchestration of the data pipeline, ensuring efficient scheduling, monitoring, and management of complex workflows.
- Implemented BigQuery with proper partitioning and clustering, resulting in optimized query performance and faster data retrieval.
- Leveraged the default Airflow UI for monitoring workflows and integrated MS Teams webhook for real-time notifications of successes and errors.
- Implemented IP whitelisting and enforced strict Airflow user permissions to enhance system security and restrict access to authorized personnel
- Enabled advanced data anomaly detection, quick analysis and reporting, detailed auditing, data visualization, and historical data analysis for the cybersecurity team.
- Enabled advanced data anomaly detection, quick analysis and reporting, detailed auditing, data visualization, and historical data analysis for the cybersecurity team.

One of the Largest Telco

Data Warehouse(Cyber Security Team)

Introduction

The cybersecurity team's single source of truth for tracking vulnerabilities, compliance, and access data is the centralized data warehouse. To enhance security operations, it uses Google Data Studio to create reports and visualize findings.

The-Challenge

More than 80 sources were combined to create a unified cybersecurity data warehouse, guaranteeing data integrity and tracking through the usage of a metadata table. User input was handled via dynamic SQL, and pipelines were scheduled to complete by 17:00. Monitoring and backfill initiation were made possible by an easy-to-use user interface, which produced a dependable and scalable source for security operations.

Technology Used



Solution We Provided

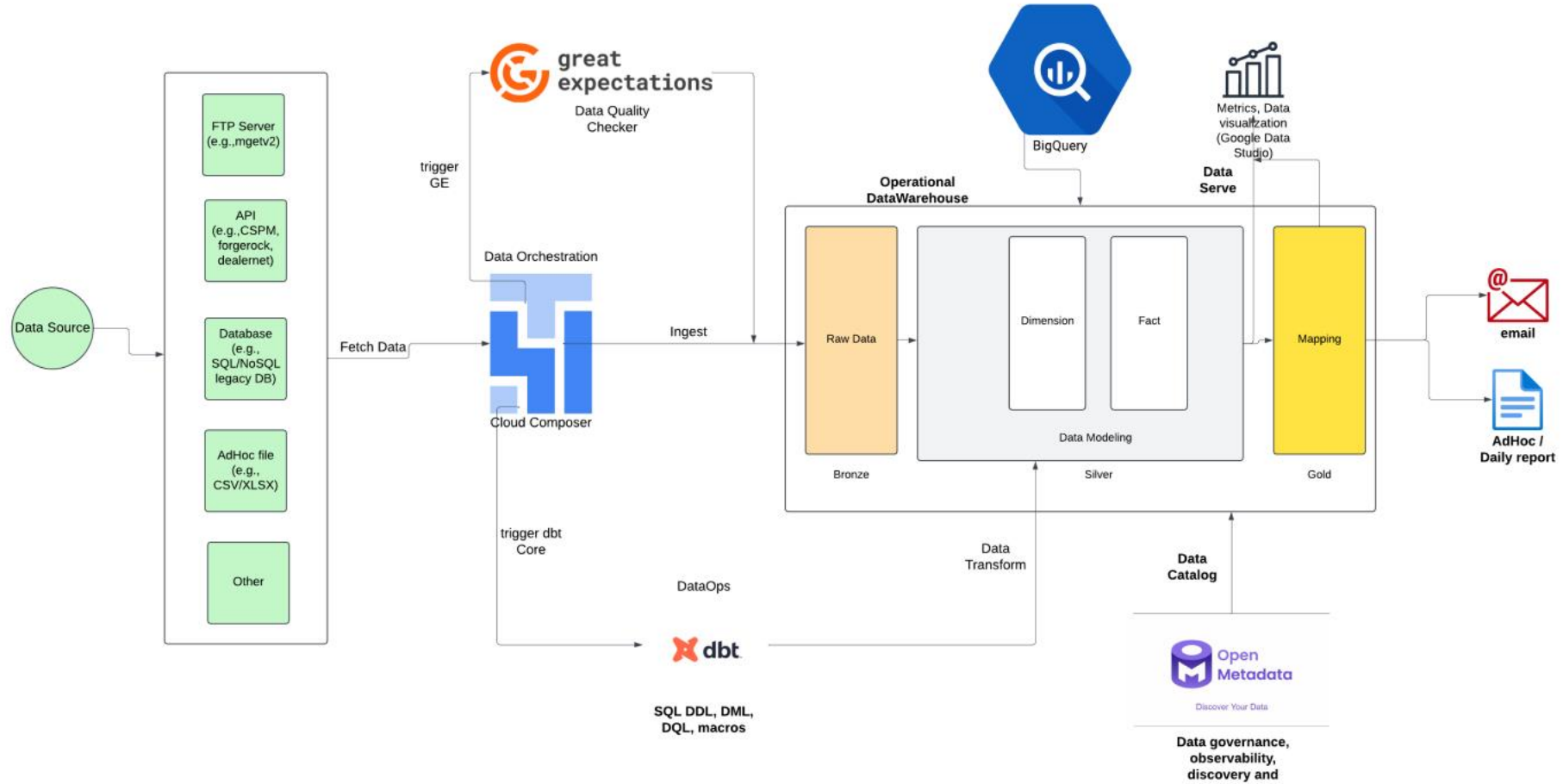
- **Effective Scheduling:** 35 data pipelines were designed and put into place, each with a maximum execution time of 12 minutes and a timetable that varied.
- **Optimized BigQuery Storage:** From 12.34 GB to 0.05 GB, storage consumption decreased by approximately 99.58%.
- **Cost Reduction:** By using optimization techniques, project expenses were reduced from \$4,000 to \$800.
- **Enhanced Control:** Using an intuitive user interface, the cybersecurity team was given complete control over audit logs and data pipelines.
- **Real-Time Notifications:** To notify stakeholders, real-time Microsoft notifications were integrated.
- **Data Quality Assurance:** A checker that keeps contaminated data from being ingested and keeps a metadata trail for auditing purposes ensured data quality.

Impact of Vivasoft's Solutions

The cybersecurity data warehouse improved security, reduced expenses, and increased efficiency. It provided the team comprehensive control over pipelines and logs, guaranteed quick, accurate insights, and used masking to secure sensitive data. Automation streamlined operations for expansion and flexibility by eliminating manual intervention, preserving historical data for compliance, and enabling real-time notifications.

One of the Largest Telco

Data Warehouse(Cyber Security Team)





we select

Analytical Data Warehouse Design for digital campaign

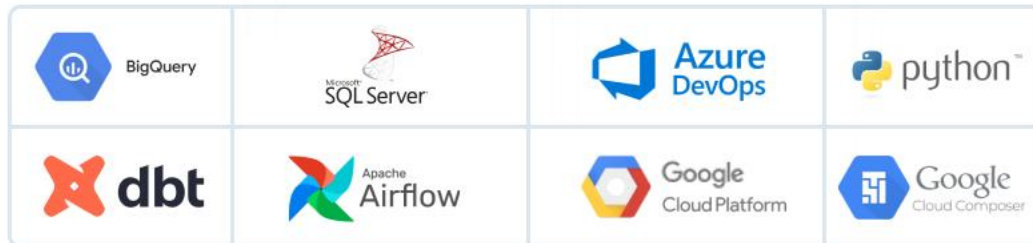
Introduction

In order to make data-driven decisions about campaign performance and expenditure, the central data warehouse monitors important social media metrics including reach, impressions, CTR, and clicks. By improving client offerings, insights increase growth and competition.

The-Challenge

A strong ETL procedure was needed to integrate data from five different social media networks, standardise it, and transform it for auditing, reporting, and analytics. Using Kimball-based modelling, the system was developed with scalability and flexibility to accommodate changing needs, producing a dependable, future-proof campaign analysis solution.

Technology Used



Solution We Provided

- **Effective Data Pipelines:** To ensure fault tolerance and dependable processing, data pipelines were developed that run every day by 8 AM.
- **Data Governance:** To protect sensitive data, we made sure that all data governance regulations, especially GDPR, were followed.
- **Implementation of a Star Schema:** A star schema was used to optimize the data warehouse for quick reporting and querying.
- **Empowered Data Analysts:** The data warehouse became a vital tool for the data analyst team, enabling them to quickly create reports and use Power BI to display data.
- **Real-Time alerts:** To update stakeholders on pipeline status, real-time Slack alerts were integrated.
- **Decreased Waiting Time:** Workflows were streamlined to cut down on waiting times between the data analyst team and downstream stakeholders, increasing overall productivity.

Impact of Vivasoft's Solutions

Analysts saved almost three hours a day because to the centralized data warehouse, which expedited the processing of campaign data from several platforms. By 8 AM, automated pipelines guaranteed GDPR-compliant, current data, and real-time Slack alerts improved collaboration. Quick spend-to-interaction analysis was made possible with Power BI reporting, allowing for secure access controls and quicker, more informed decision-making.



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