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    ser={user}
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Link.propTypes = propTypes;
Link.defaultProps = defaultProps;
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```

# **KEY AREAS OF EXPERTISE**

#### INTERFACE PROGRAMMER

Integration of ServiceNow, Remedy, and SAP via REST/SOAP APIs, **SQL**, and Kafka Data Streaming. Development of interfaces to **automate** and ensure data transmission through monitoring and alerting systems.

#### C# DEVELOPMENT

Development of complex **multi-layer** applications in **C#** with a focus on .**NET Core** web and **API** development. Implementation of modern DevOps principles such as CI/CD pipelines and workflow automation.

#### MS SQL SERVER SPECIALIST

Optimization of MS SQL Server environments through query tuning, index optimization, and data process automation. Development of **high-performance** database **solutions** for analysis and reporting.

#### **FULL STACK WEB DEVELOPMENT**

Development of scalable web applications using **ASP.NET** and **Angular**. Focus on performance, user-friendliness, and modern architectures like MVC and Microservices.

#### **AI ENTHUSIAST**

Certified Microsoft Azure **AI Solution Designer**. Development of innovative AI-based solutions using **Python** and C#. **Prompt Engineering** professional.

# **PROJECTS OVERVIEW**

Guido Dirr - Architecture and Implementation

SCHEDULER

WindowsService.NET / ASP.NET / WinForms

TRA - TRANSFER APPLICATION

WinService C# / ANGULAR

**ASSET & INVENTORY SOLUTION** 

ASP.NET / ANGULAR / C# Agents / .NET API / SQL

KAFKA CONSUMER AND PRODUCER

Python / .NET API / SQL

**SELENIUM ROBOTS** 

WinForms C# / Python / Selenium

**SHAREAPP** 

WinForms / .NET API / SignalR

**APIMAN** 

C# Agent / SQL / JSON / XML

DATABASE VARIANCE TOOL

SQL / ETL / ASP.NET

**SQL DEPLOYER** 

C# Agent / SQL

# **SCHEDULER**

### WindowsService.NET / ASP.NET / WinForms

# **Asynchronous Task Execution**

Execute Windows commands, PowerShell scripts, SQL stored procedures, and specialized tools (e.g., data loads, report rendering) across multi-server environments.

#### **Multi-Server Task Coordination**

Sequentially execute tasks, e.g., run Command 1 on Server X, then Command 2 on Server Y.

### **Dependency System**

Ensure proper workflow by triggering reports only after successful data loads.

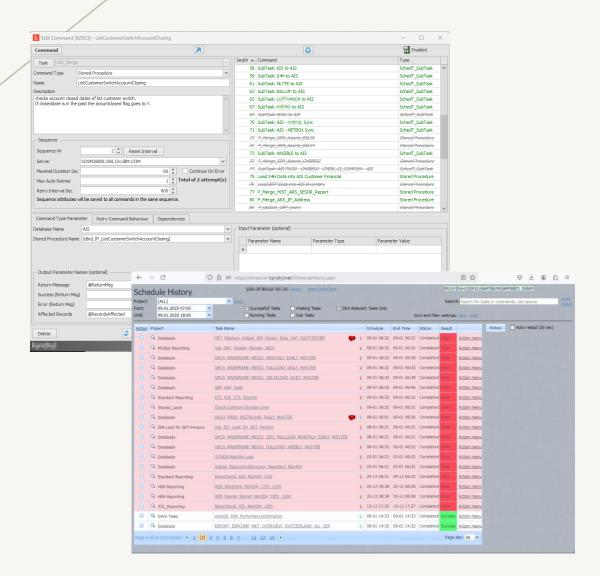
### **Self-Healing Automation**

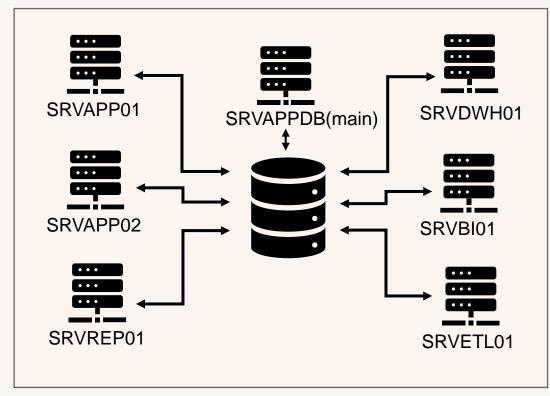
Automatically resolve the entire task chain when a failed data load is successfully retried.

### **Comprehensive Monitoring & Assignment**

Web-based dashboard to search, filter, resolve, and edit tasks. Add comments, mass-resolve issues, and assign tasks to teams or individuals.

# **SCHEDULER**





# TRA - TRANSFER APPLICATION

# WinService C# / ANGULAR

#### **Automated Data Transfers**

Built with C# for seamless data exchange between customer and internal isolated networks.

# **Efficient File Handling**

Files, regardless of size, are chunked, encrypted, and transferred securely.

The receiving TRA instance reassembles the file based on metadata and triggers follow-up tasks if configured.

#### **Flexible Protocols**

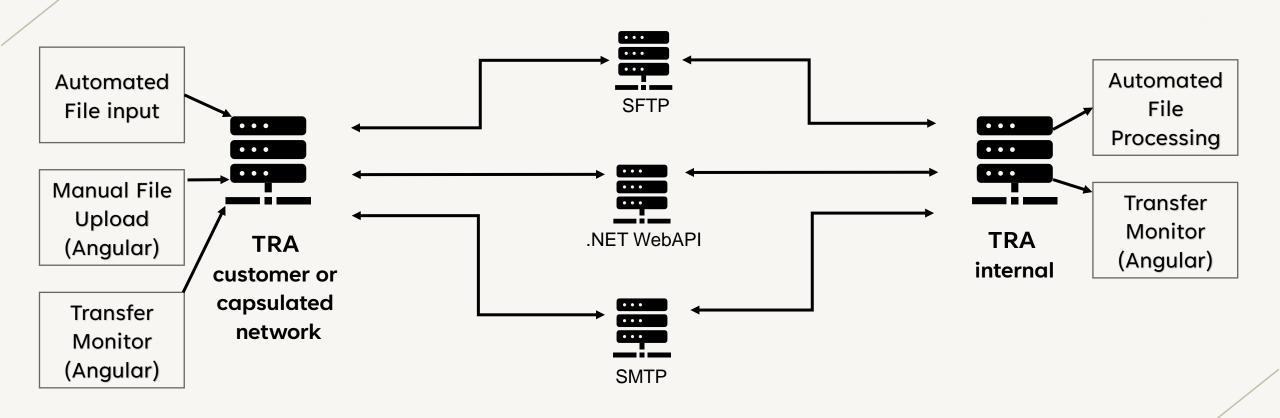
Supports SFTP, WebAPI, and SMTP for versatile file transfer.

### **User-Friendly Monitoring**

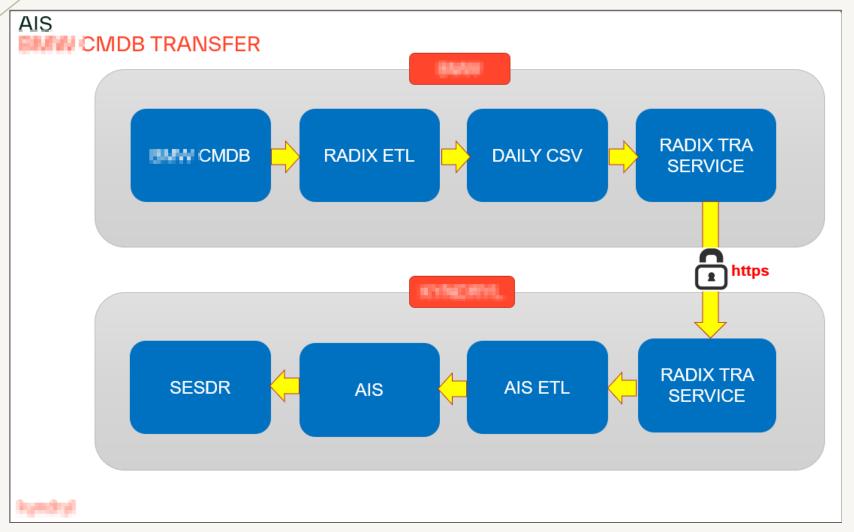
Angular-based UI for real-time monitoring of file transfers.

Manual file uploads can be initiated via the Angular app and processed by the TRA service.

# TRA - TRANSFER APPLICATION



# TRA EXAMPLE -CUSTOMER CMDB PROCESSING -



Radix ETL automatically fetches the newest CMDB data daily, creates a CSV file, hands it over to the TRA service, it is picked up and handed over to the internal TRA instance over the internet, when the transfer is done, a task is automatically triggered to process the file and import it into AIS where it is enriched from other systems and rules and from there automatically transferred to SESDR system.

# AIS - ASSET & INVENTORY SOLUTION

ASP.NET / ANGULAR / C# Agents / .NET API / SQL

#### **Customer Management**

Manages over 300 customers with robust integration capabilities for seamless data inflow and outflow.

#### **Modern User Interface**

Dynamic ASP.NET DevExpress UI as well as Angular components for a responsive and user-friendly experience.

#### **Advanced Data Validation**

Rule-based Data Validation Engine enabling automatic corrections or manual interventions through team assignments.

#### **Flexible System Integration**

.NET Web API for smooth interaction with systems like Ansible, supporting both data producers and consumers.

#### **Dynamic Data Loading**

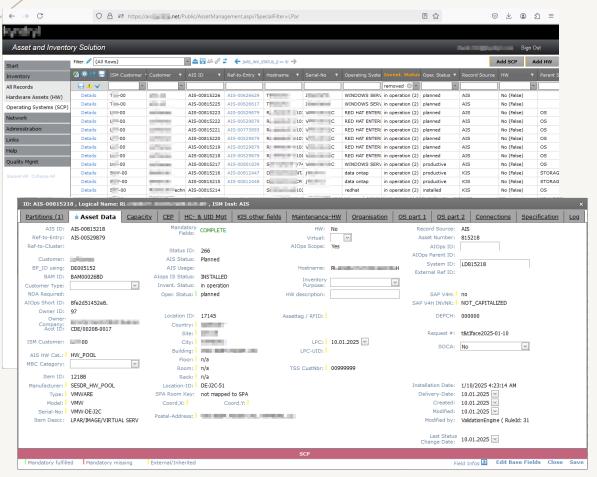
Fully automated XLS/X-to-SQL web mass loader with ASP.NET, complete with post-load procedure triggers.

#### **Automated Console Agents**

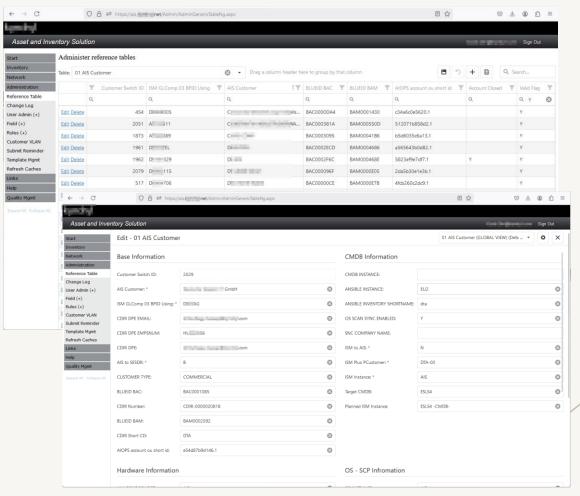
Scheduled C# Console Agents for efficient data integration and validation processes.

# AIS - ASSET & INVENTORY SOLUTION

# **ASP.NET DevExpress**

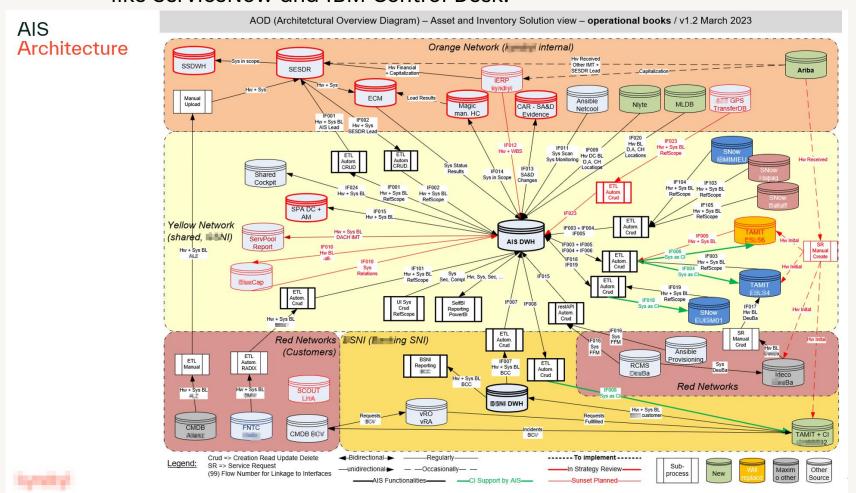


# **Angular**



# AIS - ASSET & INVENTORY SOLUTION

Massive Data Integration Layer for integration with Systems like ServiceNow and IBM Control Desk.



# KAFKA CONSUMER AND PRODUCER

Python / .NET API / SQL

# **Python-Based Integration**

Developed two Python applications (consumer and producer) to interface with the AIOps system using Kafka streams for seamless data input and output.

### **High Availability and Reliability**

CE-certified Python applications run as Kubernetes containers 24/7 on a remote system, ensuring errorfree operation and continuous data consumption for over 6 months.

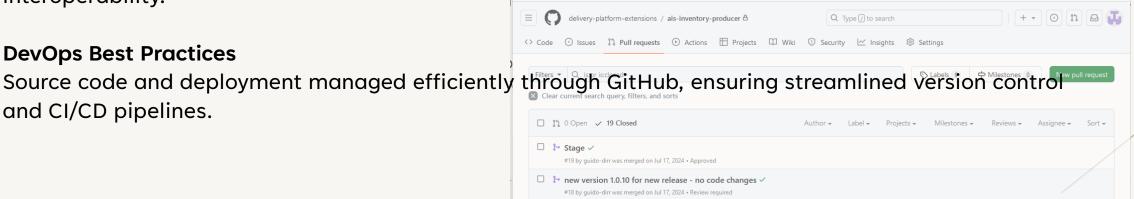
#### .NET Web API

Facilitates seamless integration with the source application for enhanced data exchange and

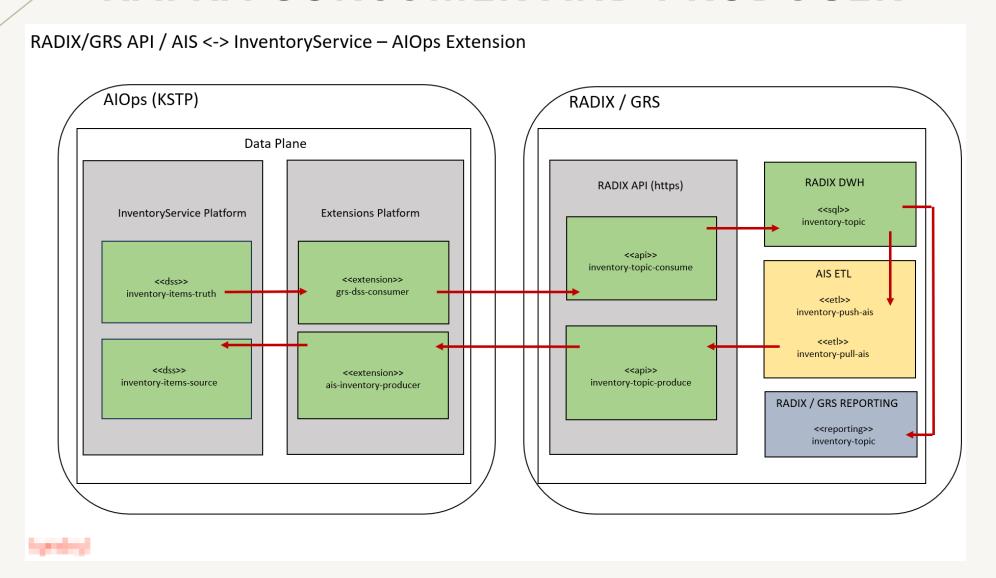
interoperability.

# **DevOps Best Practices**

and CI/CD pipelines.

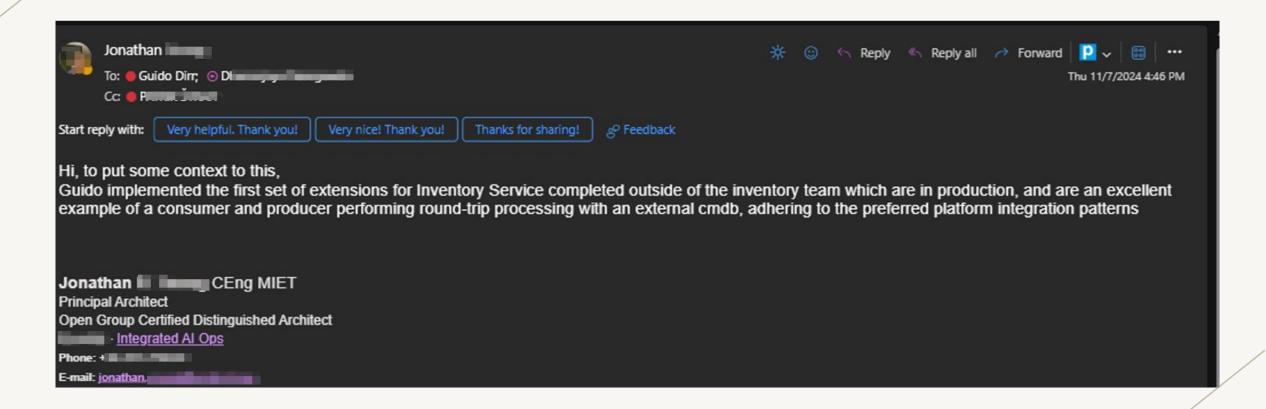


# KAFKA CONSUMER AND PRODUCER



# KAFKA CONSUMER AND PRODUCER

A comment from the main architect of the integrated system AI Ops.

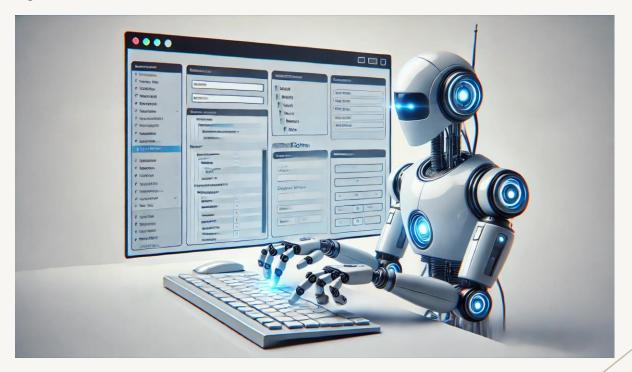


# **SELENIUM ROBOTS**

WinForms C# / Python / Selenium

# Developed advanced **Selenium** robots for automating:

- Application Integration Testing
- Application and SharePoint **Manipulation**
- Data Feed Automation via complex web forms
- System **Warming and Preloading** to ensure seamless operations



# SHARE APP

WinForms / .NET API / SignalR

# **Challenge:**

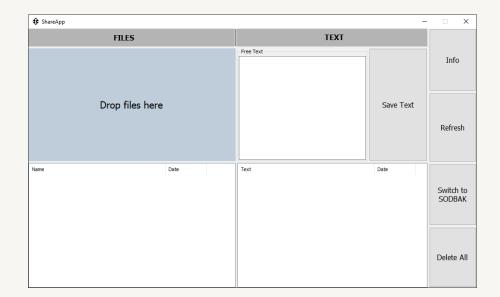
With the file copy option via RDP removed by policy, our team of ~20 developers required an efficient method to transfer files between servers.

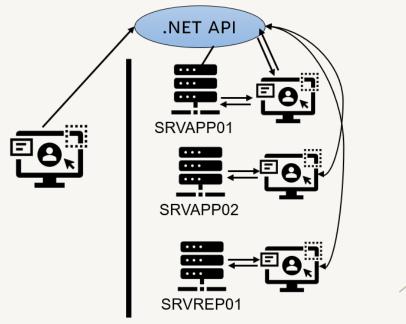
#### **Solution:**

Developed a WinForms.NET client integrated with a .NET API for seamless file transfers.

### **Real-Time Updates:**

Leveraged SignalR to provide live progress updates and notifications during file transfers.





# **APIMAN**

### C# Agent / SQL / JSON / XML

Automated Data Integration Framework

### **C#** .NET Agent

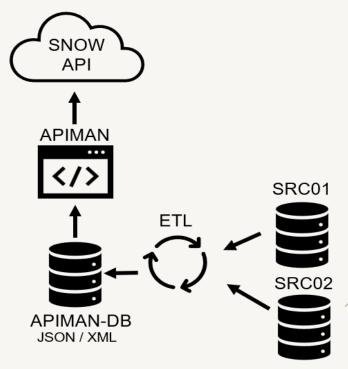
Interacts with external systems like ServiceNow, uploading data via APIs using JSON or XML formats.

### **Scheduled SQL ETL Jobs**

Prepares data entities for the target system, managing operations such as insert, update, and delete.

#### **APIMAN**

- Processes and uploads prepared entities
- Tracks upload states and performs error handling
- Monitors interface activity and notifies teams via email or ticketing in case of issues



# DATABASE VARIANCE TOOL

SQL / ETL / ASP.NET

### **Purpose:**

Compare data across 5 different asset management systems that host varying data for the same entities.

### **Key Features:**

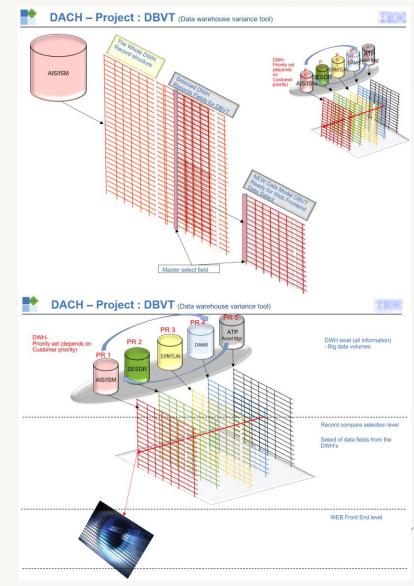
Map and compare fields across data sources to identify discrepancies.

Trigger automated corrections based on identified variances.

### **User-Friendly Interface:**

ASP.NET Wizard: Easily select master and slave systems for detailed analysis.

Powerful filtering capabilities for precise data comparisons.



# SQL DEPLOYER

C# Agent / SQL

### **Centralized Job Management**

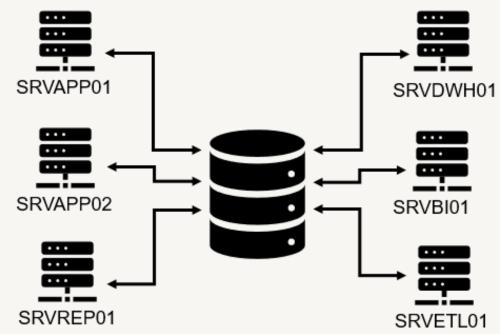
A C# Agent is installed on every server and polls a central database for jobs to execute, ensuring seamless task automation across the network.

### **Key Capabilities:**

- Enable, disable, start, and stop services
- Deploy files using SQL binary streams
- Execute SQL and Windows commands in a sequential chain

#### **Automation Use Cases:**

- Automatically manage and update service user passwords
- Schedule automatic environment shutdowns on Sundays for server patching purposes



# AI ENTHUSIAST

AI ENGINEERING / PROMPT ENGINEERING / MACHINE LEARNING FINANCIAL DATA PREDICTION PYTHON



