DAF Project Demonstrations

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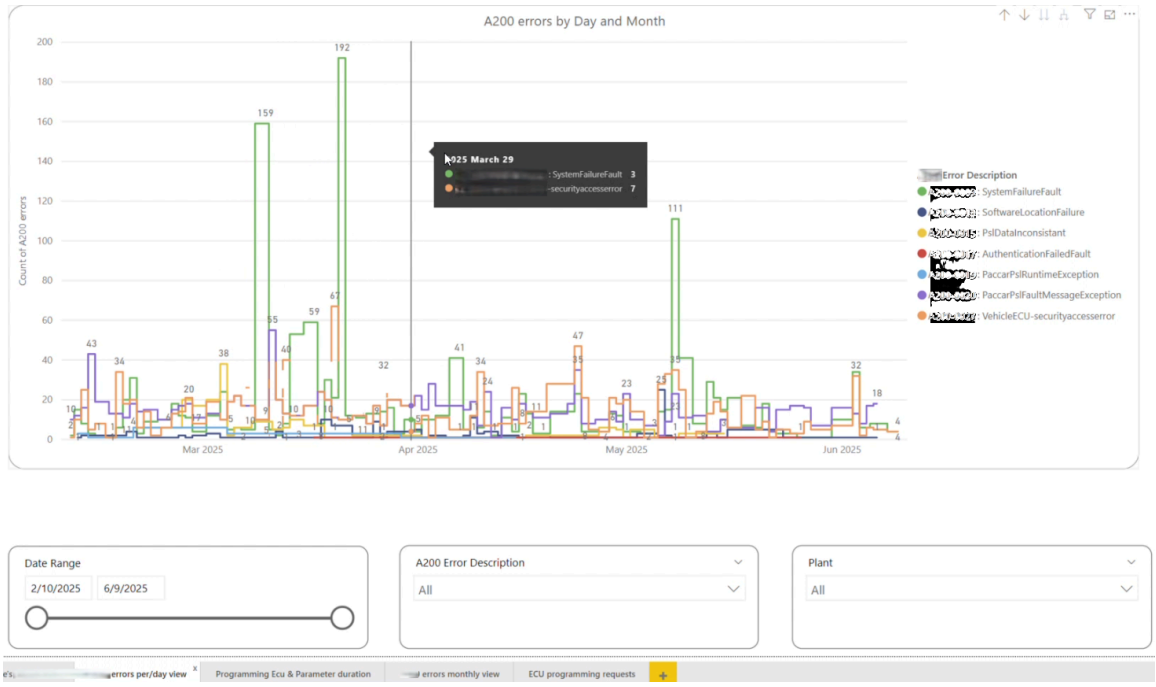
Purpose: Showcasing work completed during graduation internship (for portfolio/website)

1. Power BI Dashboard – VSC 2.0 KPIs

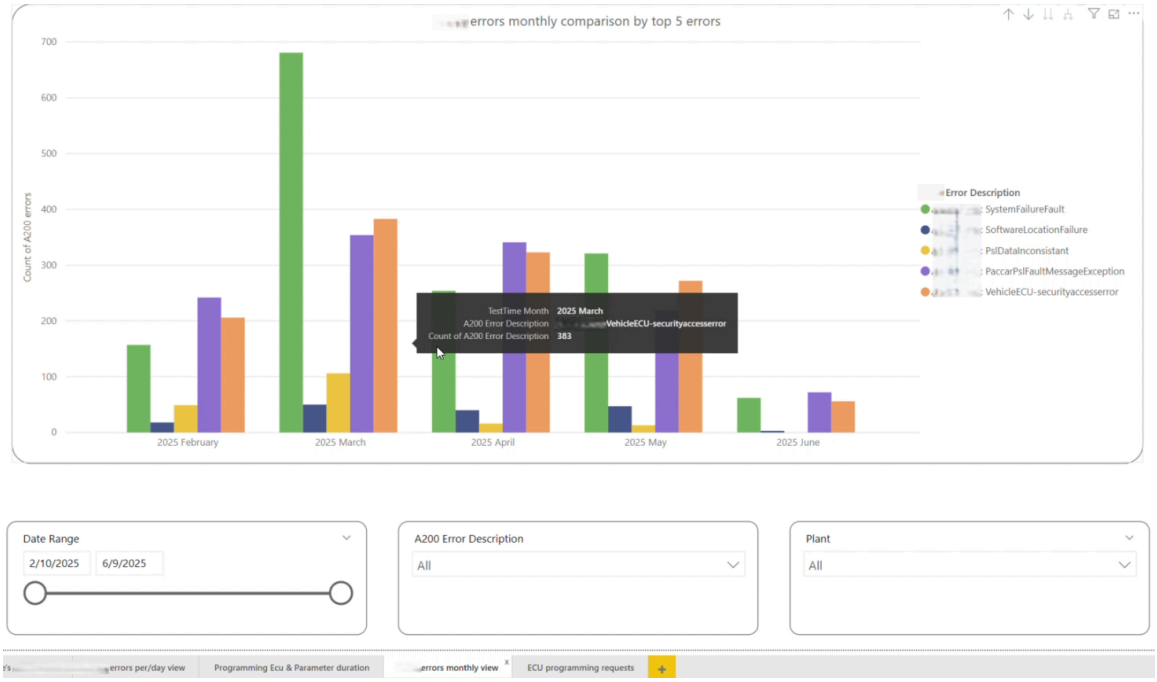
Description:
This dashboard was built in Power BI to visualize critical KPIs for the VSC 2.0 project at DAF Trucks. It includes programming time statistics, ECU & parameter error tracking, and certificate insights.

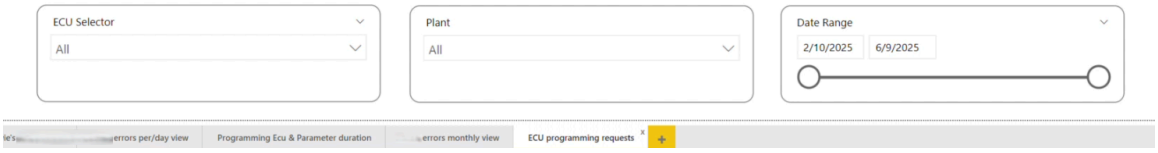
Highlights:
- Daily & monthly trend of A200 errors
- Average ECU programming time
- Parameter programming metrics
- Visuals filtered by Factory, ECU type, and time range

Screenshot(s):




Duration of ECU Programming
Average Duration
Median Duration
Min duration
Max of duration
Duration in seconds
Min & Max range in seconds
program ECU
Duration of Program Parameters
Average duration
Median duration
Min duration
Max of duration
Duration in seconds
Min & Max range in seconds
program parameters
Duration of ECU Programming per ECU
Average Duration
Median Duration
Min duration
Max of duration
Duration in seconds
Min & Max range in seconds
ECU Type
Duration of Parameter Programming per ECU
Average duration
Median duration
Min duration
Max of duration
Duration in seconds
Min & Max range in seconds
ECU Type
To filter out outliers, you can use the slider in the Outlier Filter to exclude ECU durations with unusually high values.
Outlier Filter
1
6597
ECU Selector
All
Date Range
2/10/2024
6/9/2025
Plant
All
ile's A200 errors
A200 errors per/day view
Programming Ecu & Parameter duration
A200 errors monthly view
ECU programming requests





2. Azure Application Insights & Function App Integration

Description:

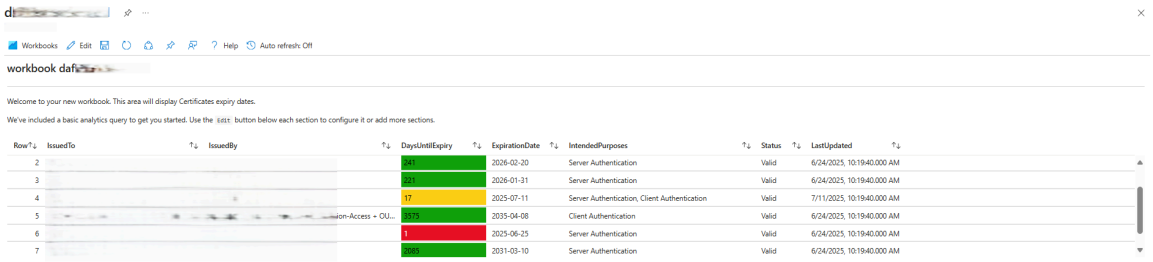
This solution uses an Azure Function App with a Blob Trigger to ingest CSV telemetry data and send it to Application Insights. The insights are visualized using a custom Workbook.

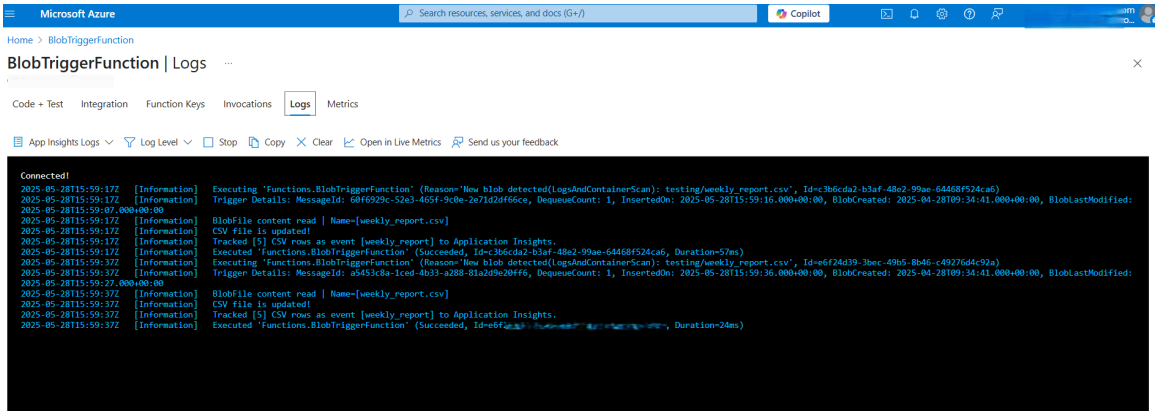
Highlights:

- Built a C# solution to display certificate expiry status in App Insights Workbook.

- CSV uploads trigger Azure telemetry updates
- Custom Workbooks created with KQL queries
- Displays expiration dates, status, and timestamps

Screenshot(s):



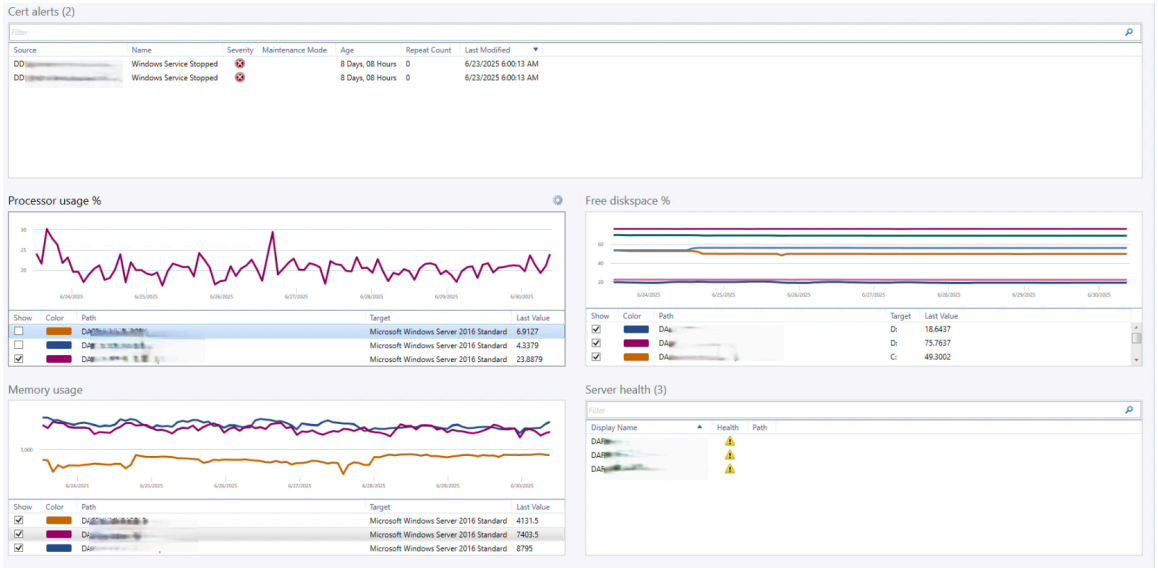


3. SCOM Dashboard – Infrastructure Monitoring

Description:
This dashboard was created using System Center Operations Manager (SCOM) to monitor critical infrastructure for server health.

Highlights:
- CPU and RAM usage per server
- Critical alerts and disk space overview
- Free drive space
- Clear visual breakdown of server health

Screenshot(s):



Summary

These dashboards demonstrate my experience with data visualization, system monitoring, and integrating cloud-based tools with Azure DevOps and on-premises infrastructure. They reflect both frontend and backend skills, including Power BI, Azure Functions, Kusto Query Language, and SCOM configuration.