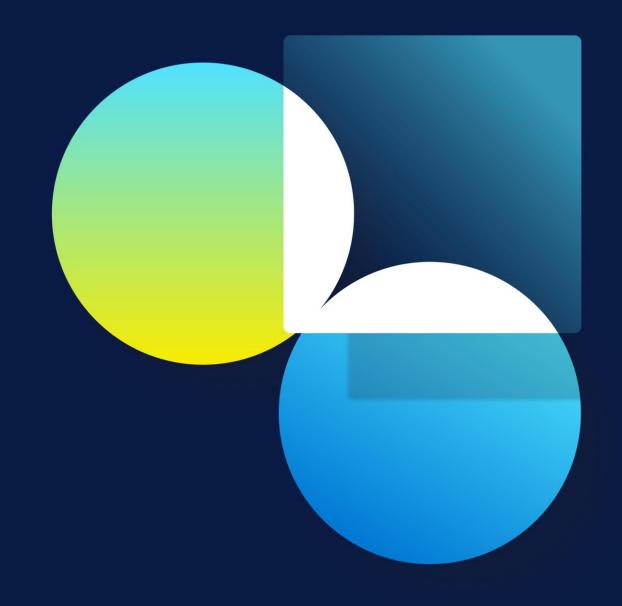


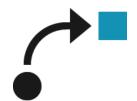
## **System Monitoring**

Dynamics 365 FastTrack Architecture Insights Series

Edison Lai



## Agenda



#### 1. Introduction

### 2. Monitoring solutions

- 1. LCS
- 2. Azure Data Explorer
- 3. Optimization advisor

#### 3. Closing

## Introduction

System monitoring

What is System Monitoring? What should you monitor?

- Slow queries
- Slow running processes
- Integrations
- Deadlock/blocking
- Errors

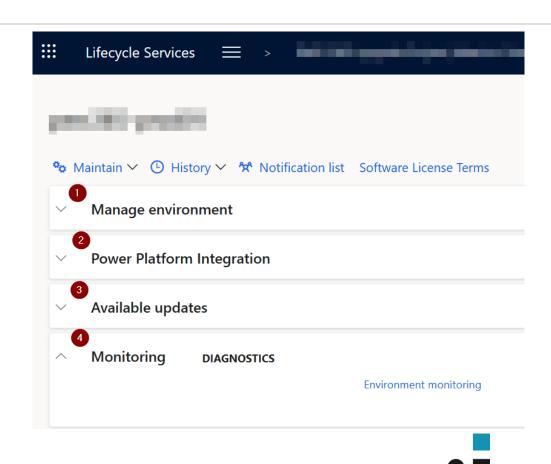
What is the result?

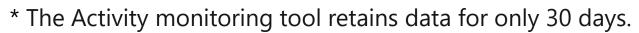
- Improved system performance
- Enhanced system reliability
- Better resource utilization



# Lifecycle Services (LCS)

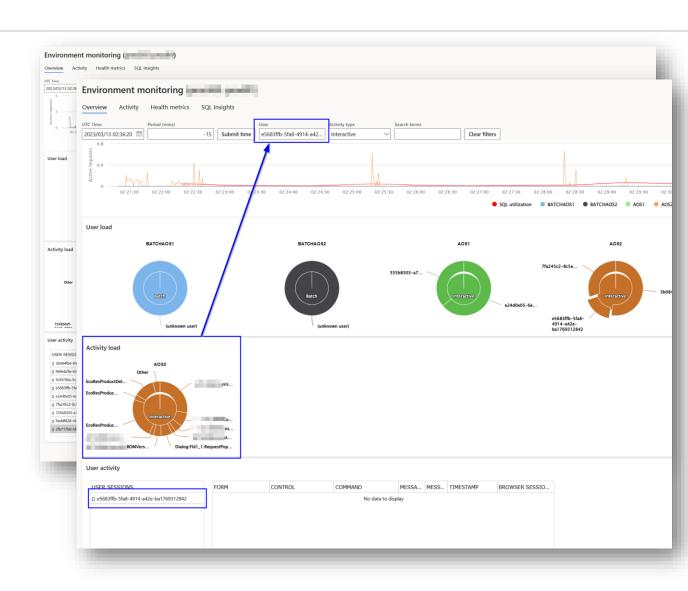
- 1. Manage environment
- 2. Power Platform Integration
- 3. Available updates
- 4. Monitoring
  - Overview
    - Quick Idea
  - Activity
    - Raw logs
  - Health metric
    - performance and health
  - SQL Insight
    - Advanced SQL troubleshooting





### **LCS - Overview**

- Overview in period time
  - MAX in 60 minutes
  - high-level summary of the health and status
  - SQL \ Batch \ AOS utilization
- User load in each in both Batch server and AOS
- Activity load in AOS
- User activity



## **LCS - Activity**

- Most of common useful Query name
  - All logs
  - User login events
  - Long queries
  - Slow interactions
  - All events for activity
- Export the grid into CSV format
- Option to set row limit, max 5000
- Extra columns shown



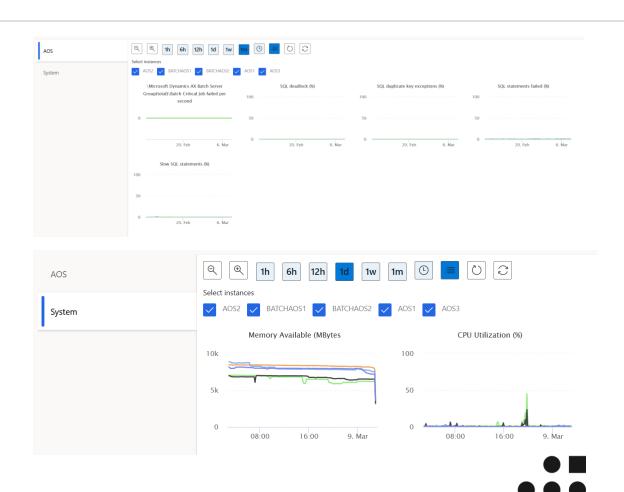


## LCS - Health metric

System monitoring

#### **AOS**

- Batch job failed
- Deadlock %
- Duplicate key exception %
- SQL statement failed %
- Slow SQL statement %
   System
- Memory Available (MB)
- CPU Utilization (%)



## LCS – SQL Insight

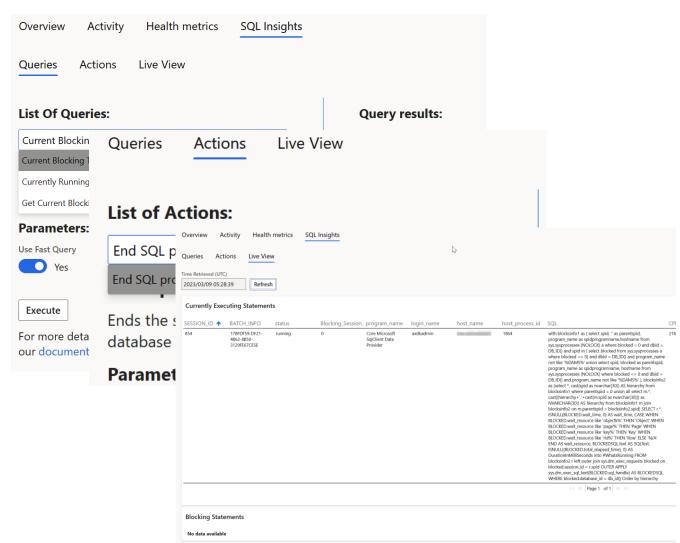
System monitoring

#### Queries

- Current Blocking Tree
- Currently Running Queries
- Get Current Blocking Statement

#### **Actions**

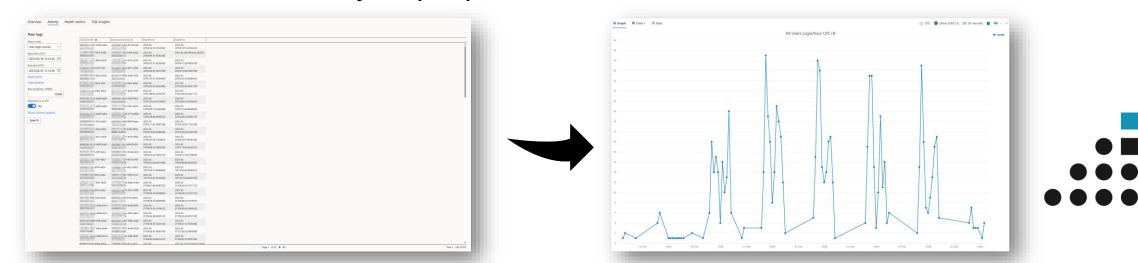
- End SQL Process
   Live View
- Currently Executing Statements
- Blocking Statements



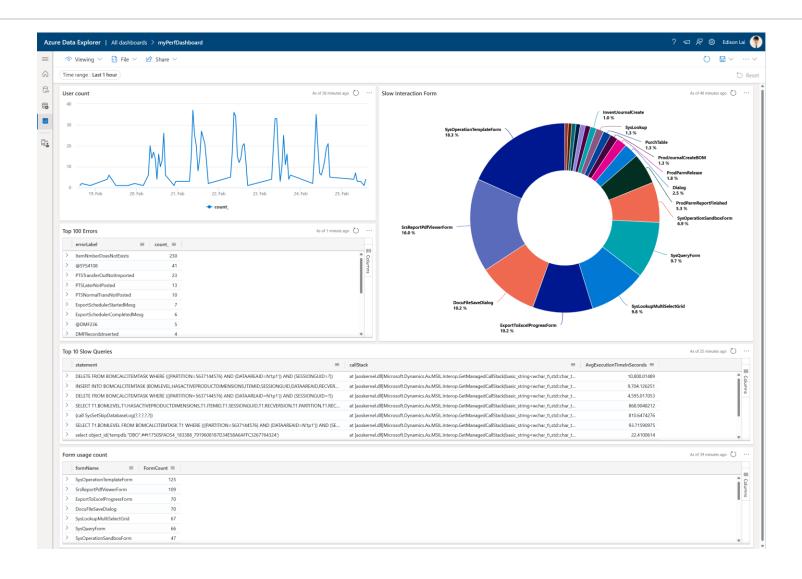
Azure Data Explorer (ADE)

## **Azure Data Explorer**

- Great tool for analysis with LCS raw log
  - Store and process log data at scale
  - Quick insights with KQL
  - Interactive visualizations
- Prepare Azure Data Explorer
- Export raw log from LCS to ADE (Monitoring > Activity > User login events)
- Perform KOL for analysis purpose



## **Azure Data Explorer**





# Optimization advisor

## **Optimization advisor**

System monitoring

The Optimization Advisor focus on below categories:

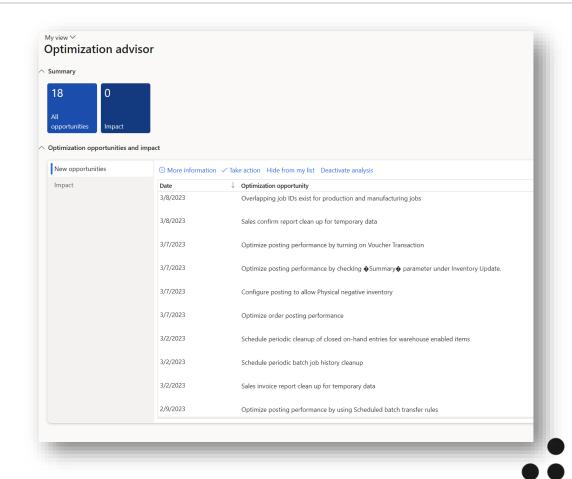
- 1. Module configuration and Setup
- 2. System configuration
- 3. Business data consistency and clean up.
- 4. Best Practices

There are 88 standard validation rules in 10.0.33(PU57)

- System Administrator > Periodic Task > Maintain diagnostic rule
- System administration > Periodic tasks > Schedule diagnostics validation rule

#### Custom rule

• e.g. Empty title in RFQ



## Closing System monitoring

- LCS is a tool to monitor the finance and operations workload and usage
- Azure Data Explorer is a tool to help to analysis data from big data
- Optimization advisor to help ensure optimal configuration of finance and operations.



## Thank you