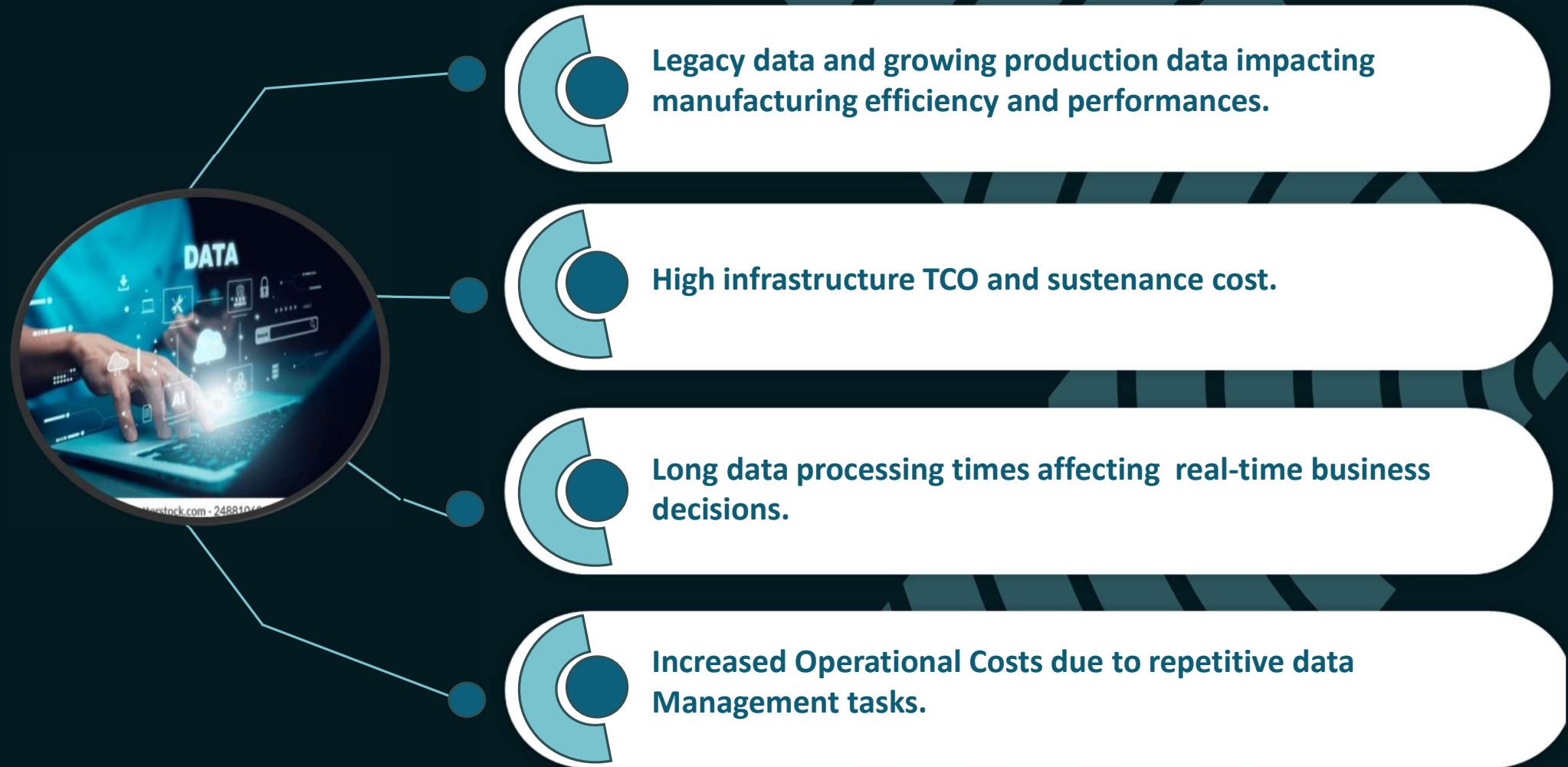




EmVault

Archive, Purge, Restore - Organized Data Management

Business Challenges



Product Description



EmVault is a specialized software solution designed to manage and streamline the lifecycle of data within systems. This tool ensures that outdated, redundant, or less critical data is efficiently archived for future reference or permanently deleted to optimize system performance and maintain data compliance.

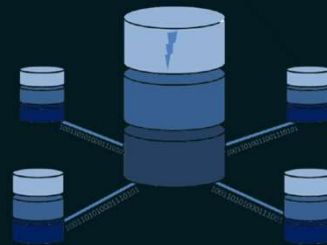
Target Audiences :

1. MES Administrators
 2. IT and DB Administrators
 3. Manufacturing Stakeholders
-

Key Features



Supports
Oracle/SQL DB's



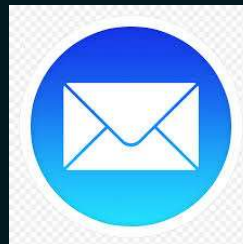
Connects to
multiple DB's



Configurable Rules
Archive/Purge/Restore

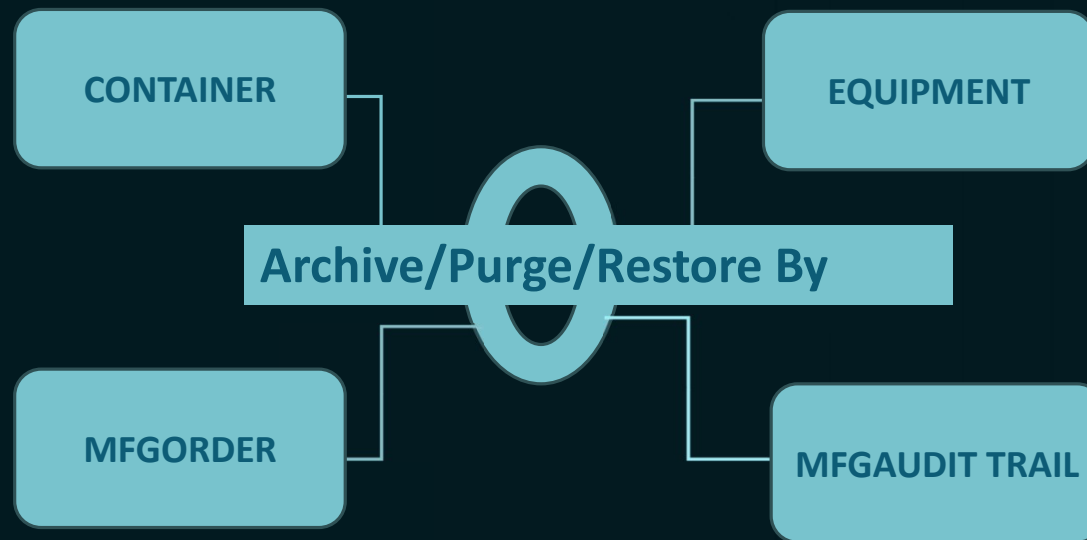


Automated
Archive/ Purge/ Restore

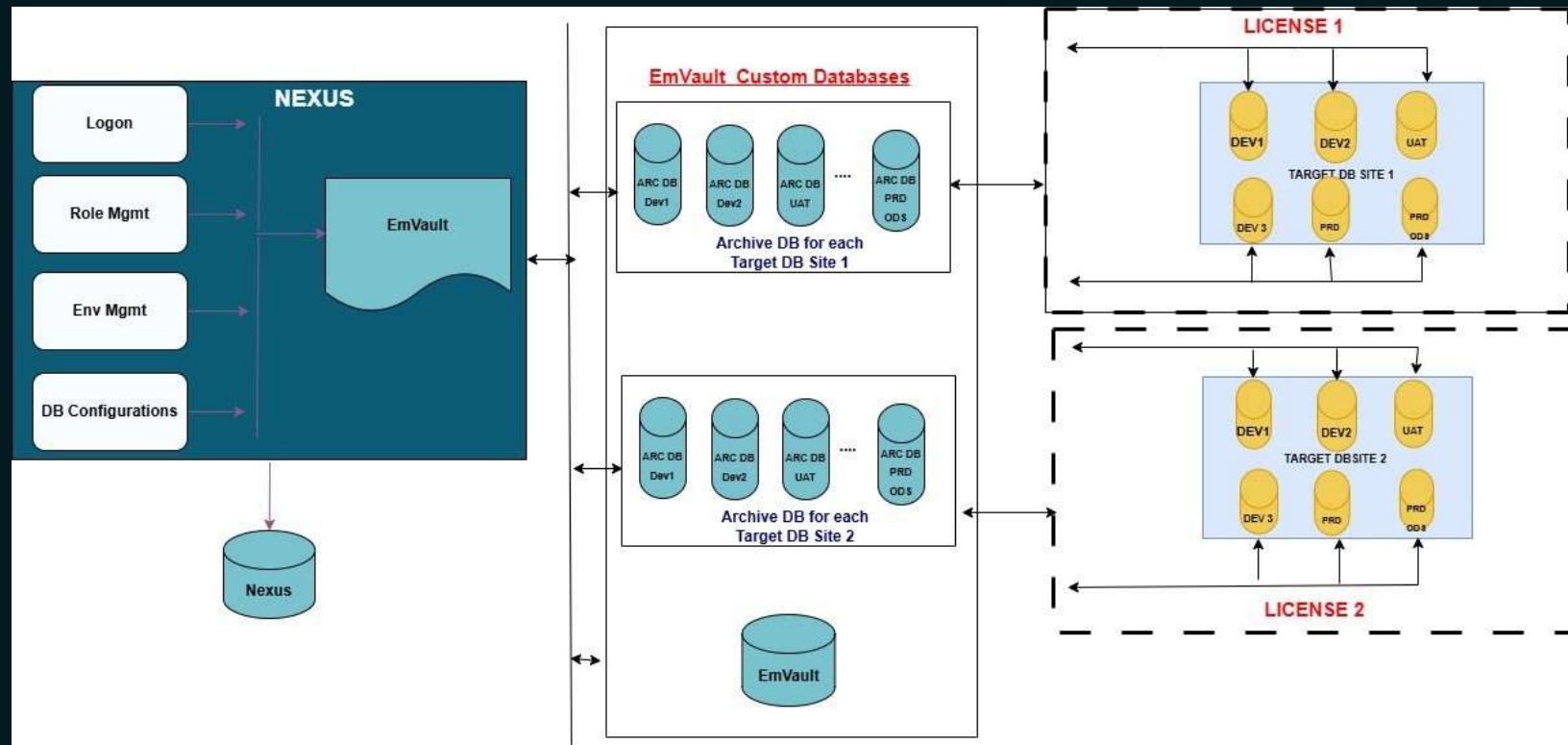


Auto Email
Notification

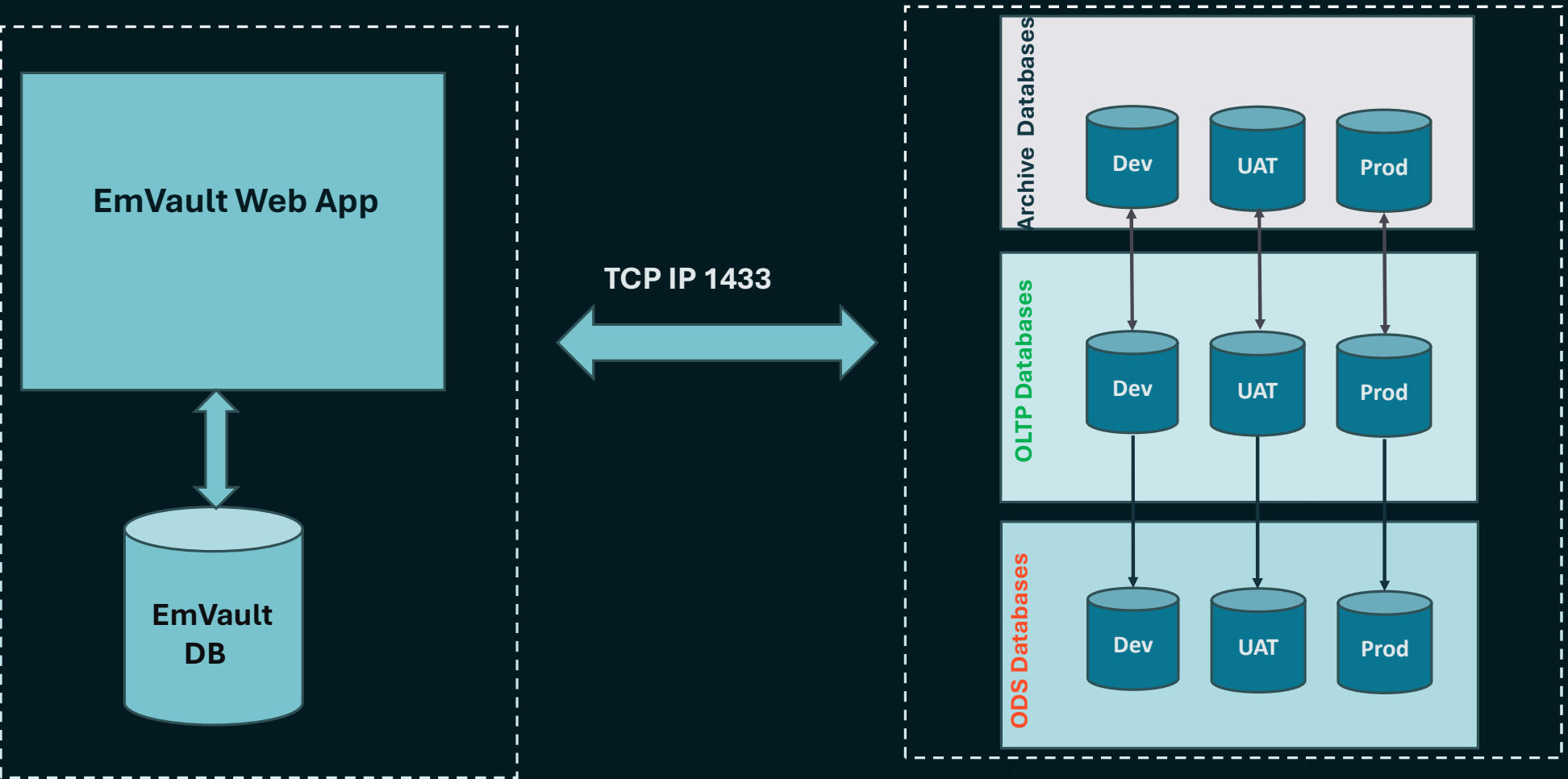
Archive /Purge /Restore Categories








Architectural overview



Architectural overview



Technical Specifications

-  **Front End –React JS .**
 -  **Back End –C#.**
 -  **Database -SQL /Oracle**
 -  **Any Opcenter Versions**
 -  **Compatible-Semi/Medi/Electronics Suites**
-

Siemens Package Vs EmVault

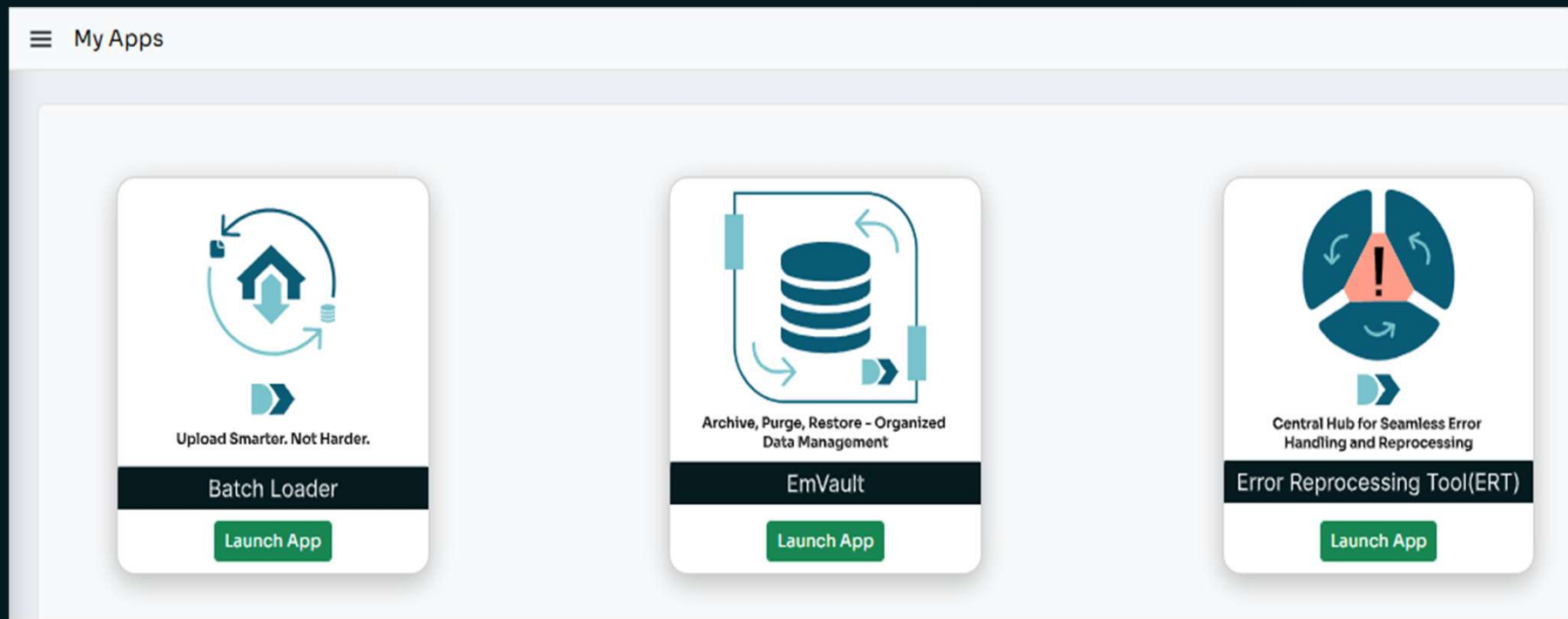
#	Siemens OOB Package	Dhruv's-Archive Purge Restore Tool
1	Complex and Time-Consuming Installation	Quick and Easy Installation
2	No GUI	Interactive Web Application
3	Missing Email Notification feature	Email Notification Feature Included
4	Needs to be installed on every OLTP Database	Central Hub that connects to multiple DB's from single tool
5	Difficult to Troubleshoot	Easy Troubleshooting

Business Benefits

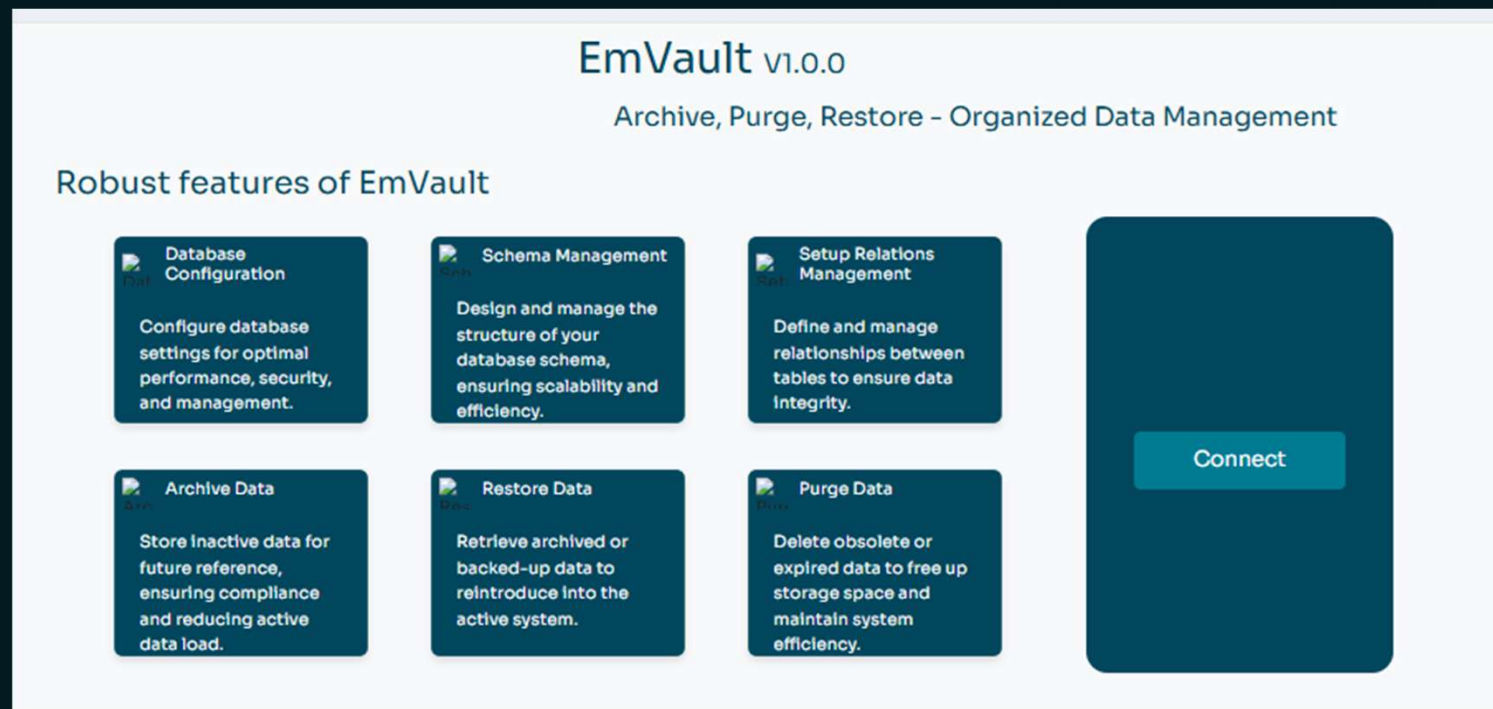


1. Reduced Storage and Maintenance Costs.
 2. Structured data lifecycle management for better business insights.
 3. Faster database queries, improved user experience, and lower latency.
 4. Increased IT Productivity.
-

Sneek Peek-User Interface



Sneek Peek-User Interface



Database Configuration

[View Database Configuration](#) [Create Database Configuration](#)

Database Configuration Name*

PRD-OLTP

Description

PRD OLTP

Select Database Category*

Opcenter Execution

Select Database Vendor* :

☒ SQL Server ☐ Oracle

Select Server*

192.168.1.33

Database Name*

OLTP_33_Medi

Port

1433

Username*

sa

Password*

☐ Is Archive Database

Select Archive Database Configuration

Medi_33_Archive

Select Users

Choose an user

Add

Selected Users

Show 10 entries

Search

Username	Action
Dhruv1	

Setup Table Configuration

Select Database Configuration

MKCrossEmVaultOLTPMedi33_83 So

Source Database: MKCrossEmVaultOLTPMedi33_83
Archive Database: MKCrossEmVaultARCMedi33_33

Select Table Type *

Tracking

Search Tables

Con

Master Data Configuration

Tracking ⓘ

● OLTP33_Schema.Container

● OLTP33_Schema.ContainerContainerSampleData

● OLTP33_Schema.ContainerCurrentCrossRefs

● OLTP33_Schema.ContainerDetail

OLTP33_Schema.ContainerisCurrentDefects

Setup Relation Configuration-Container

Select Relation*

Purge-By-Container

Setup Relation Name*

Purge-By-Container

Description

Purge by container relation

Edit Table Relation Details

Add Table Relation

Show 10 entries

Search

Setup Table Name	Setup Column Name	Parent Table Name	Parent Column Name	
Container	ContainerId			
A_JobTxnHistoryDetail	JobTxnHistoryId	A_JobTxnHistory	JobTxnHistoryId	
A_PartTxnHistoryDetail	PartTxnHistoryId	A_PartTxnHistory	PartTxnHistoryId	
AssignChangePkgContentHistoryT	AssignChangePkgContentHistoryId	AssignChangePkgContentHistory	AssignChangePkgContentHistoryId	
AssignChangePkgContentHistoryI	AssignChangePkgContentHistoryId	AssignChangePkgContentHistory	AssignChangePkgContentHistoryId	
ChecklistEntryHistoryDetail	ParentId	AssignChecklistHistory	AssignChecklistHistoryId	
AssociateHistoryChildCnts	AssociateHistoryId	AssociateHistory	AssociateHistoryId	
ChangeProcessHistoryHistoryDet	ChangeProcessHistoryId	ChangeProcessHistory	ChangeProcessHistoryId	

Setup Relation Configuration-Equipment

Medi_EquipmentRelation

Medi_EquipmentRelation



















Medi Equipment Relation

Edit Table Relation Details

Add Table Relation

Show 10 entries

Search

Setup Table Name	Setup Column Name	Parent Table Name	Parent Column Name	Actions
ResourceDef	ResourceId			 
A_JobTxnHistoryDetail	JobTxnHistoryId	A_JobTxnHistory	JobTxnHistoryId	 
A_PartTxnHistoryDetail	PartTxnHistoryId	A_PartTxnHistory	PartTxnHistoryId	 
A_JobOrder	JobOrderId	A_Job	JobOrderId	 
A_JobTechnician	JobId	A_Job	JobId	 
A_JobChecklist	JobId	A_Job	JobId	 
CompleteMaintenanceHistoryHist	CompleteMaintenanceHistoryId	CompleteMaintenanceHistory	CompleteMaintenanceHistoryId	 
CompleteMaintHistoryDetails	CompleteMaintenanceHistoryId	CompleteMaintenanceHistory	CompleteMaintenanceHistoryId	 
A CompleteMaintHistoryvDetailsC	CompleteMaintHistoryvDetailsId	CompleteMaintHistoryvDetails	CompleteMaintHistoryvDetailsId	 

Rule Management

[View Rule Management](#) [Create Rule Management](#)

Select Rule

SVKArchiveRestore_10March2025

Description

Enter description

Status*

Active

Operation Type*

☐ Purge ☒ Archive ☒ Restore

Select Database Config*

SVK_OLTP

Table Relation*

ArchivePurgeRestoreByContainer

Select Type

Query Text

Query Text*

```
SELECT Top 1000 ctn.ContainerId
FROM Container ctn WHERE
ctn.Status <> 1 AND (DATEADD(dd,
0, DATEDIFF(dd, 0, GETDATE())) -
IsNull(ctn.LastActivityDate,
ctn.FactoryStartDate)) > (10)
```

[Execute query](#)

[Read More](#)

Archive/Purge/Restore

[View Operations](#) [Create Operations](#)

New

InProgress

Completed

Error

Paused

Resumed

Retried

Preparing

Show

10

 entries

Search

Schedule-Archive/Purge/Restore

Schedule Form

☒ One-time ☐ Recurring

Date: Time:

Close

Submit

Schedule-Archive/Purge/Restore

Schedule Form

☐ One-time ☒ Recurring

Duration

Start Date 2025-03-04 ☒ End Date 2025-02-24 ☐ No End Date

Frequency Occurs

Select Frequency

Execution Time

Start Time 19:15 ☐ End Time ☐ No End Time

Summary

April 2025

Su	Mo	Tu	We	Th	Fr	Sa
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3

Clos

Schedule Form

☒ End Date ☐ No End Date

Start Date Select From Date End Date Select End Date

Frequency Occurs

Weekly

Choose Days of the Week

☐ Monday ☐ Tuesday ☐ Wednesday ☐ Thursday ☐ Friday ☐ Saturday ☐ Sunday

Execution Time

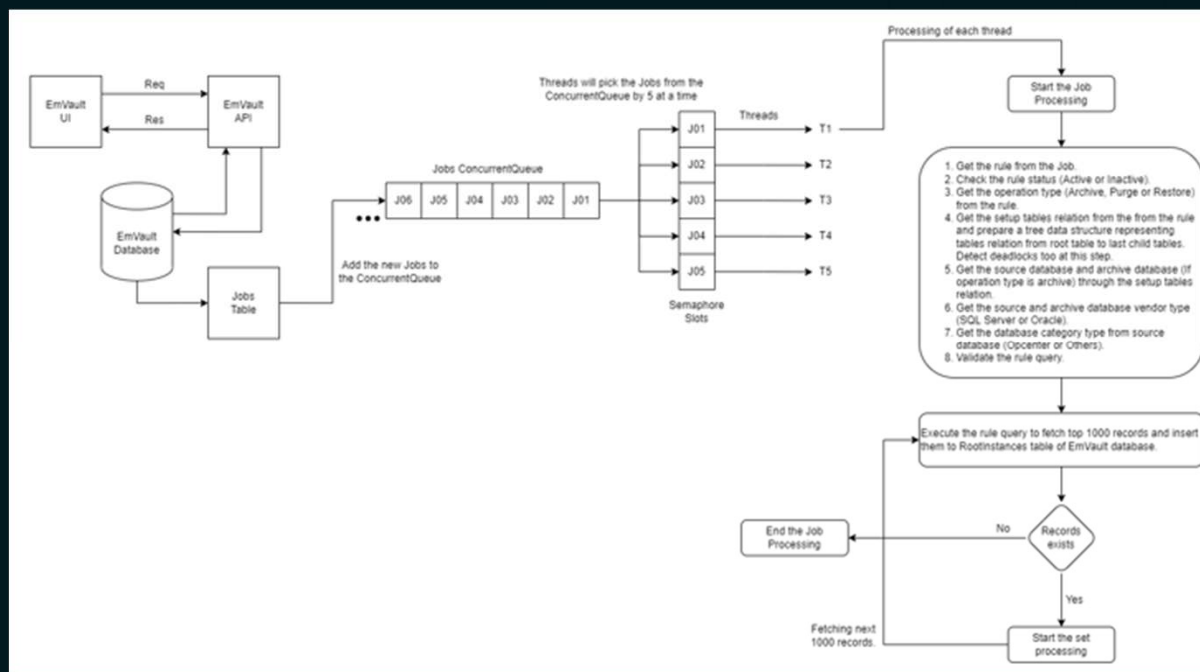
Start Time Select Start Time ☐ End Time ☐ No End Time

Summary

Close

Submit

Technical Design- Archive/Purge/Restore



Key Take Away



- 1) **Improved Performance:** Removing excess data can make key processes run faster because there are fewer records to process.
 - 2) **Reduced Storage Consumption:** Purging and archiving can reduce the amount of storage space your data takes up on critical, high-performance, production systems.
 - 3) **Improved Data Management:** Archiving can help to identify and remove redundant data.
 - 4) **Reduced Backup and Maintenance:** With less data to back up, backup times can be shorter. Regular Archiving and Purging of obsolete data can reduce the overhead when Index and statistic rebuild occurs frequently.
 - 5) **Faster Report Runs:** Archiving and purging can help to identify improper use of storage space. It can improve and speed up the data retrieval and reporting accuracy on OC EX.
 - 6) **Long-term Storage:** Archiving can provide a long-term storage solution for important data.
 - 7) **Restore:** Restoring data back can help you to fix any unintended Purges.
-



Thank You