



Fundamentally:

# SAP IQ as the Basis for future-oriented Applications

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Stefan Weickum  
Expert for databases and interfaces

# Agenda

## Historic review

Development of  
Nearline and SAP IQ

## SAP IQ

All-rounder among  
analytical databases

## Nearline

Sidecar for mass data

## PBS Nearline

Stable and flexible  
interface

Perfect combination

PBS nearline  
with SAP IQ

PBS nearline with

SAP HANA  
Data Lake IQ

Best Practice

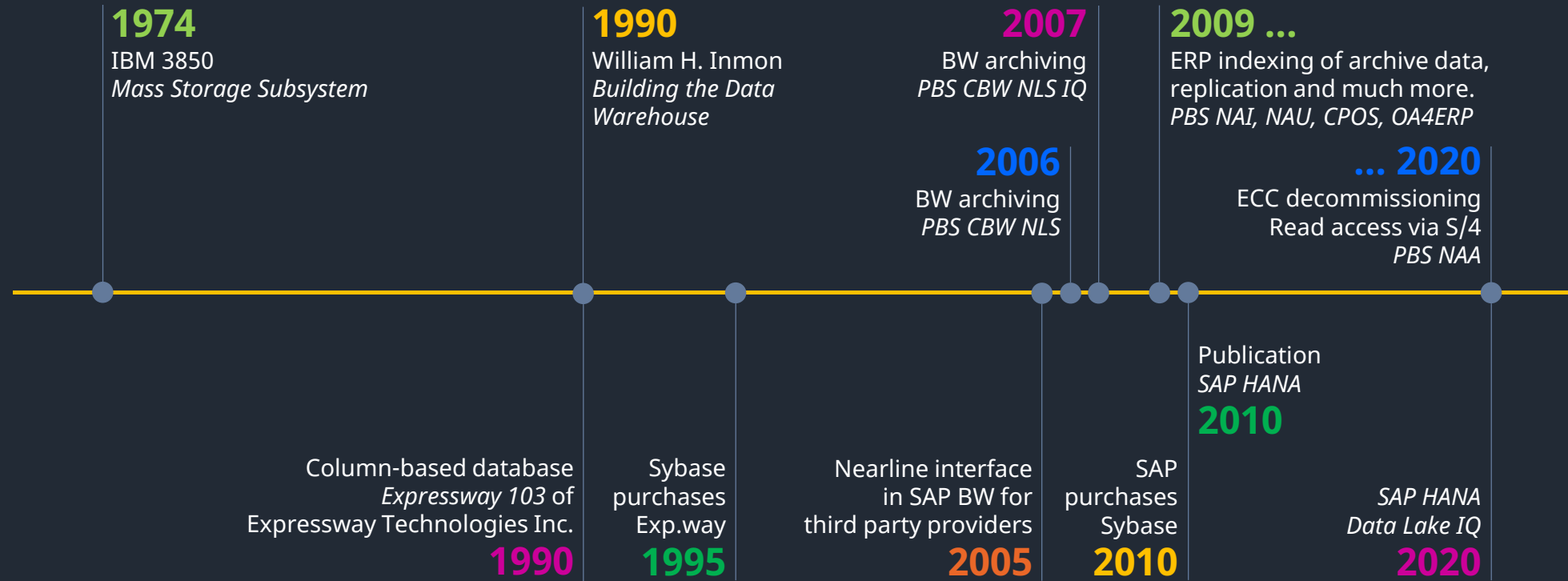
Performance  
in sidecar

Selected

Business  
Cases

## Historic review – Development of Nearline and SAP IQ

# Historic Review – Development of Nearline and SAP IQ



# SAP IQ – All-rounder among analytical Databases

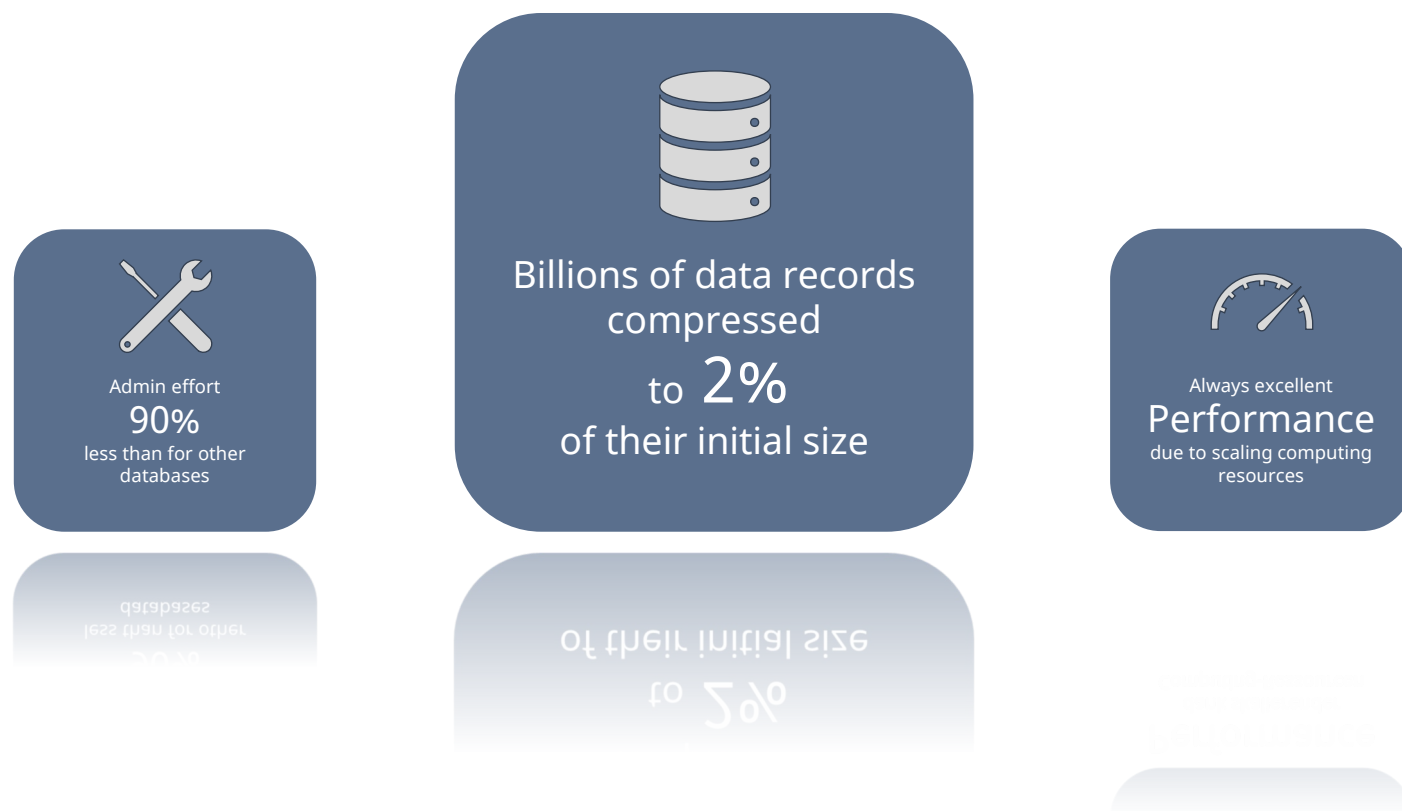
# SAP IQ – All-rounder among analytical Databases



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# SAP IQ – All-rounder among analytical Databases





## Nearline – Sidecar for Mass Data

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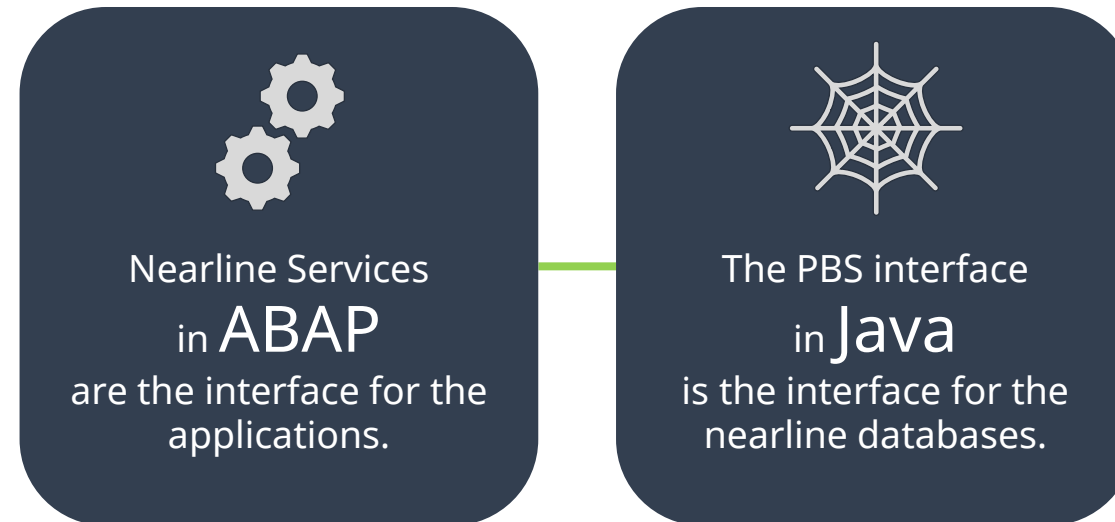
PBS Nearline – Stable and flexible Interface for ...

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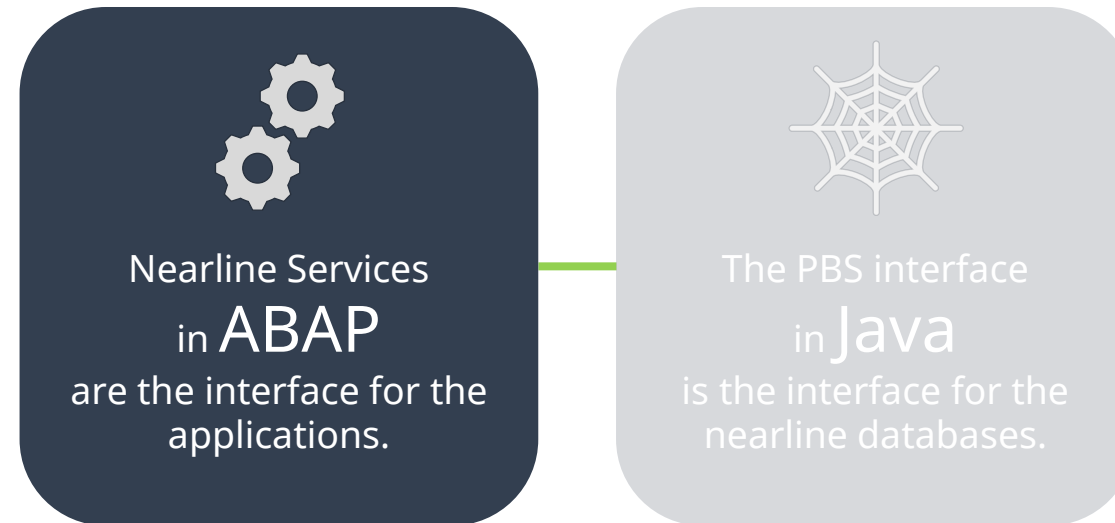


PBS Nearline

# PBS Nearline – Stable and flexible Interface for ...



# PBS Nearline – Stable and flexible Interface for quite a lot ... SAP



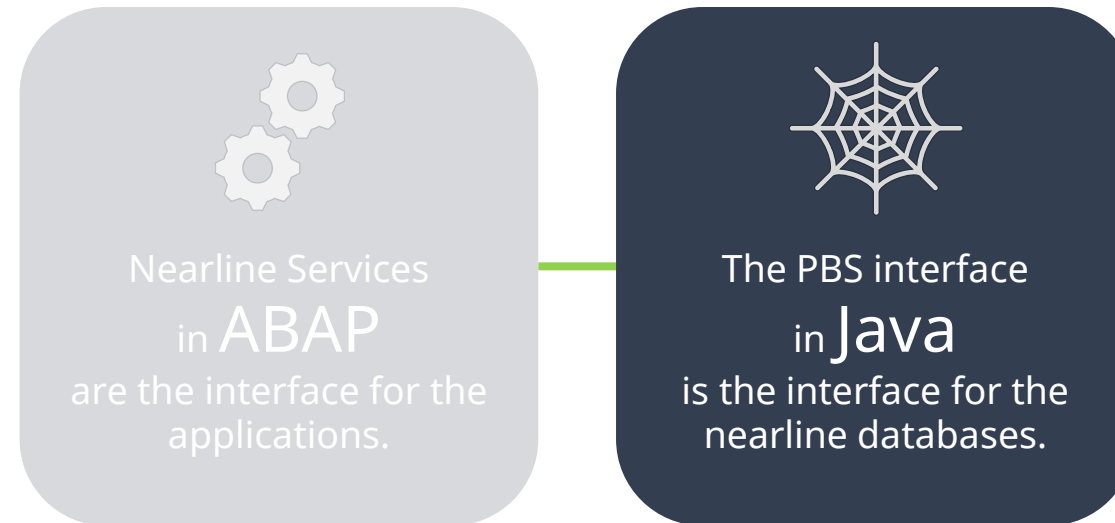
**SAP** ECC

**SAP** S/4HANA

**SAP**  
Business Warehouse

**SAP** BW/4HANA

# PBS Nearline – Stable and flexible Interface for a lot of ... Databases



# PBS Nearline – Stable and flexible Interface for On-Prem and ... nearly everywhere



Nearline Services  
in **ABAP**  
are the interface for the  
applications.



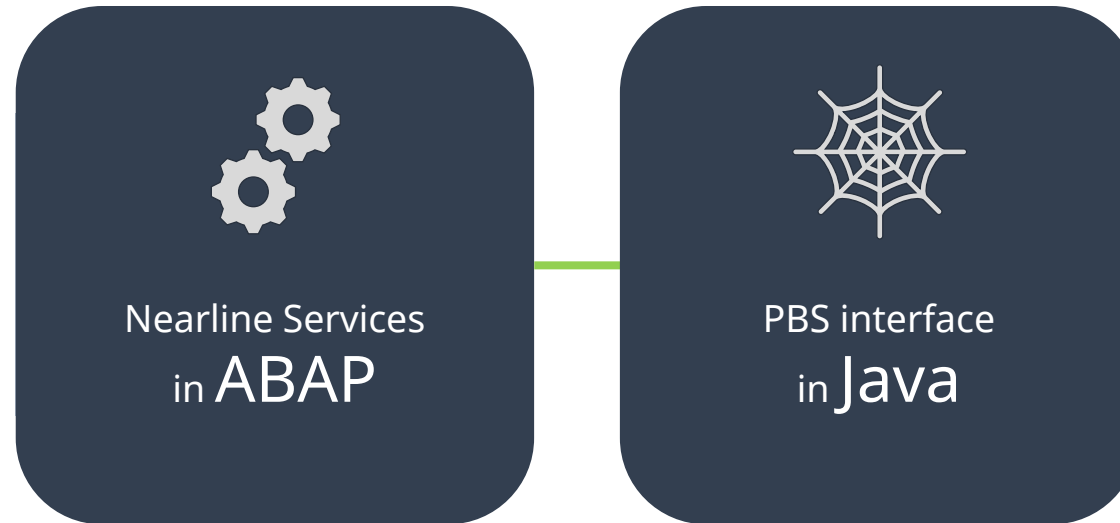
The PBS interface  
in **Java**  
is the interface for the  
nearline databases.



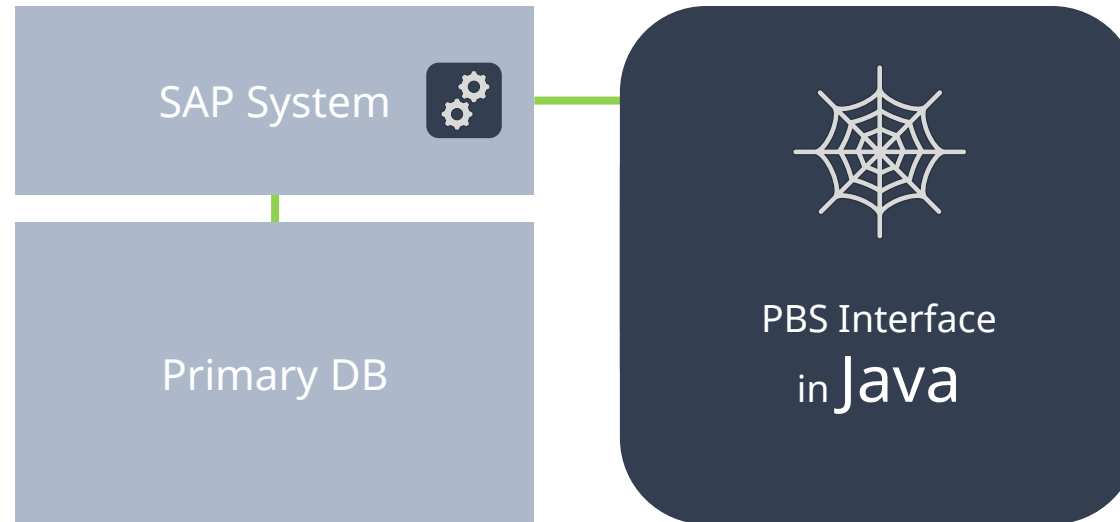


## Perfect Combination – PBS Nearline with SAP IQ

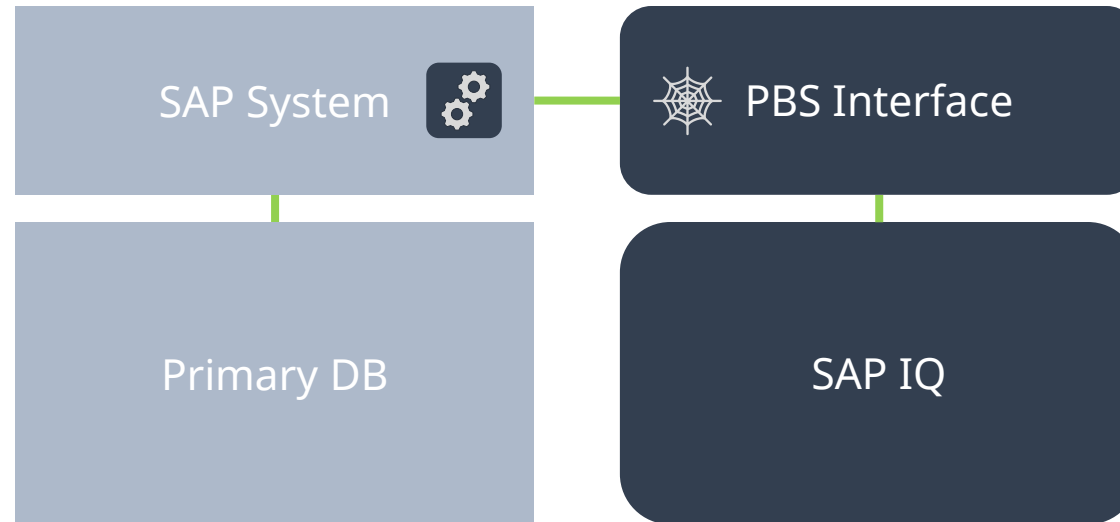
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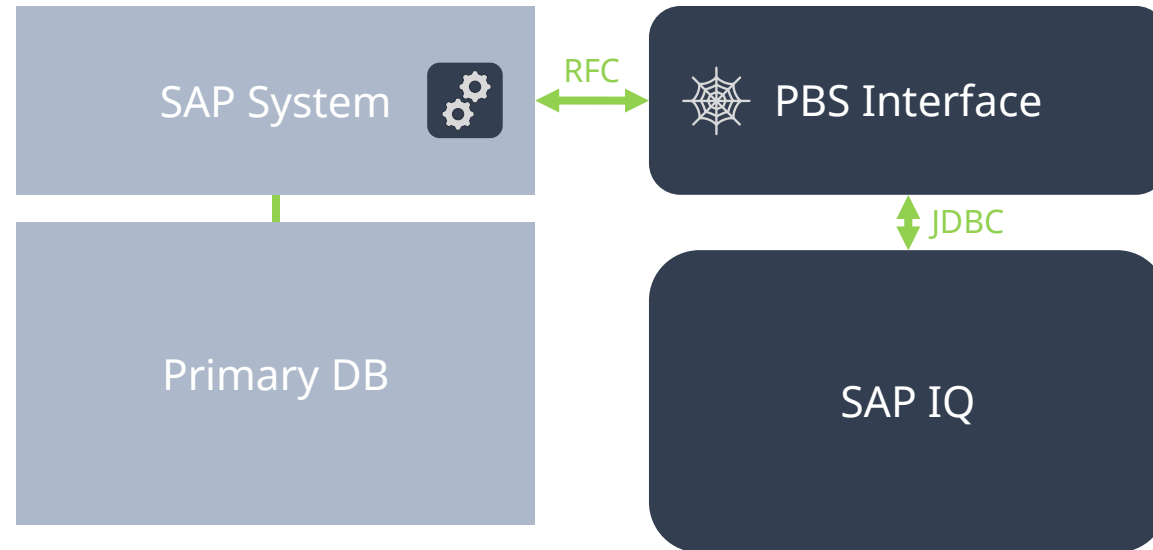
# Perfect Combination – PBS Nearline with SAP IQ



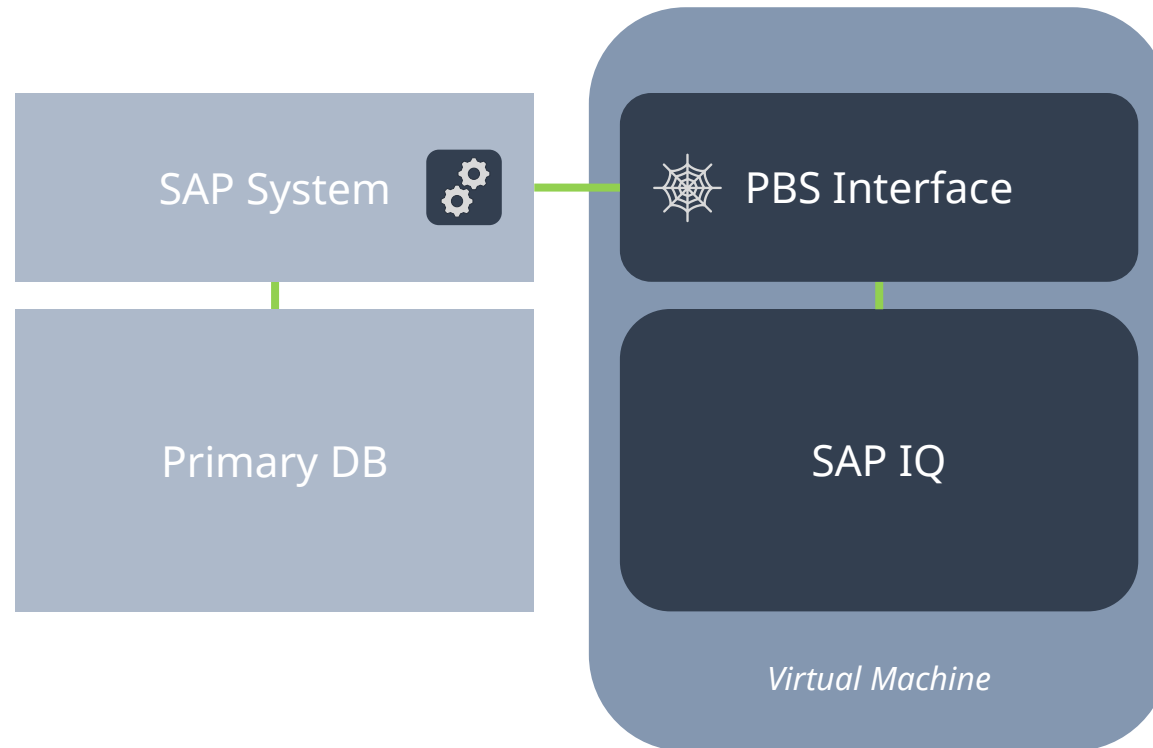
# Perfect Combination – PBS Nearline with SAP IQ



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## PBS Nearline with SAP IQ – Miscellaneous

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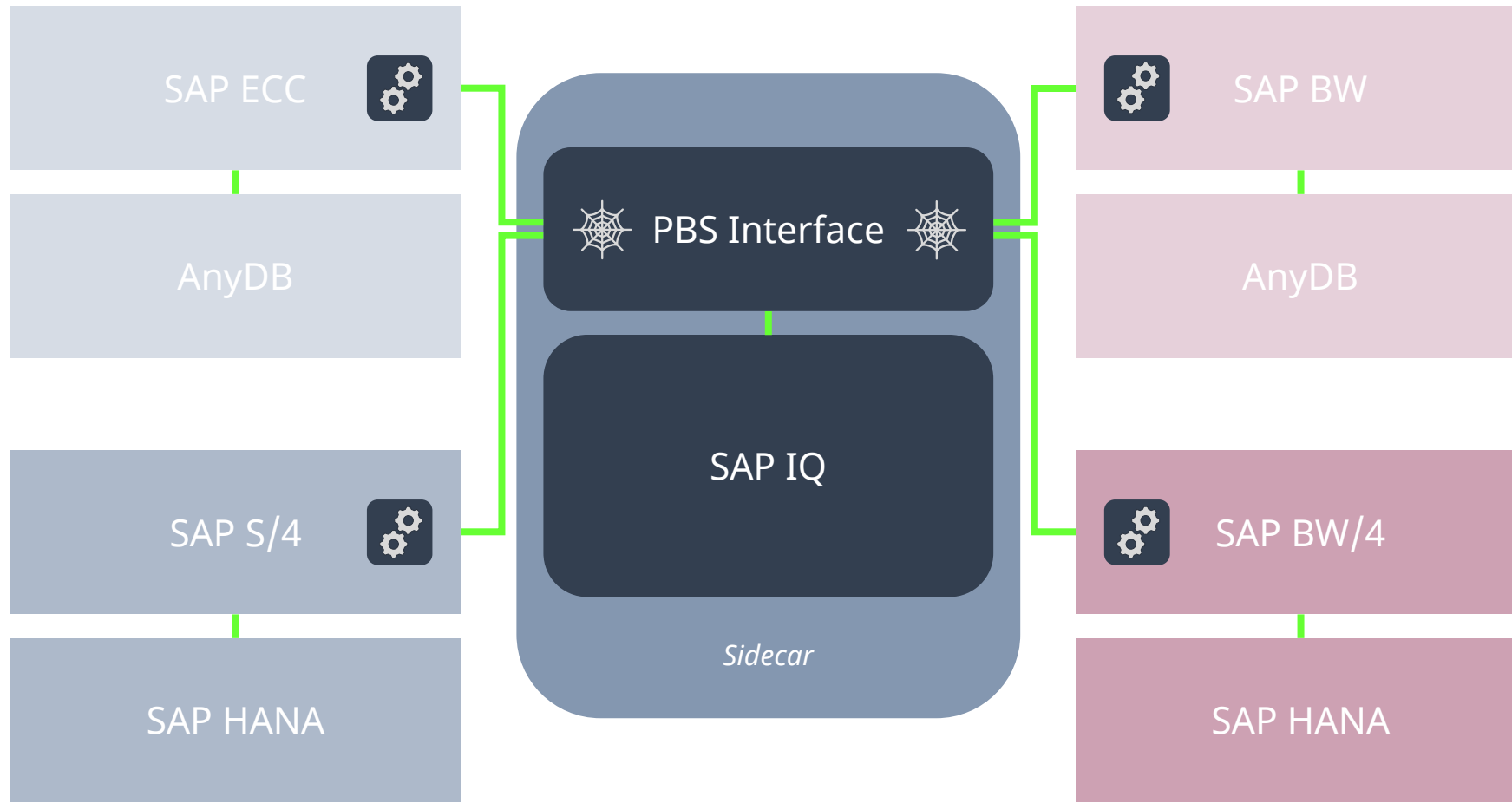
Multiple  
SAP systems  
with one  
sidecar

Load  
distribution

Backup



# Miscellaneous – multiple SAP Systems with one sidecar



# PBS Nearline with SAP IQ – Miscellaneous

Multiple  
SAP systems  
with one  
sidecar



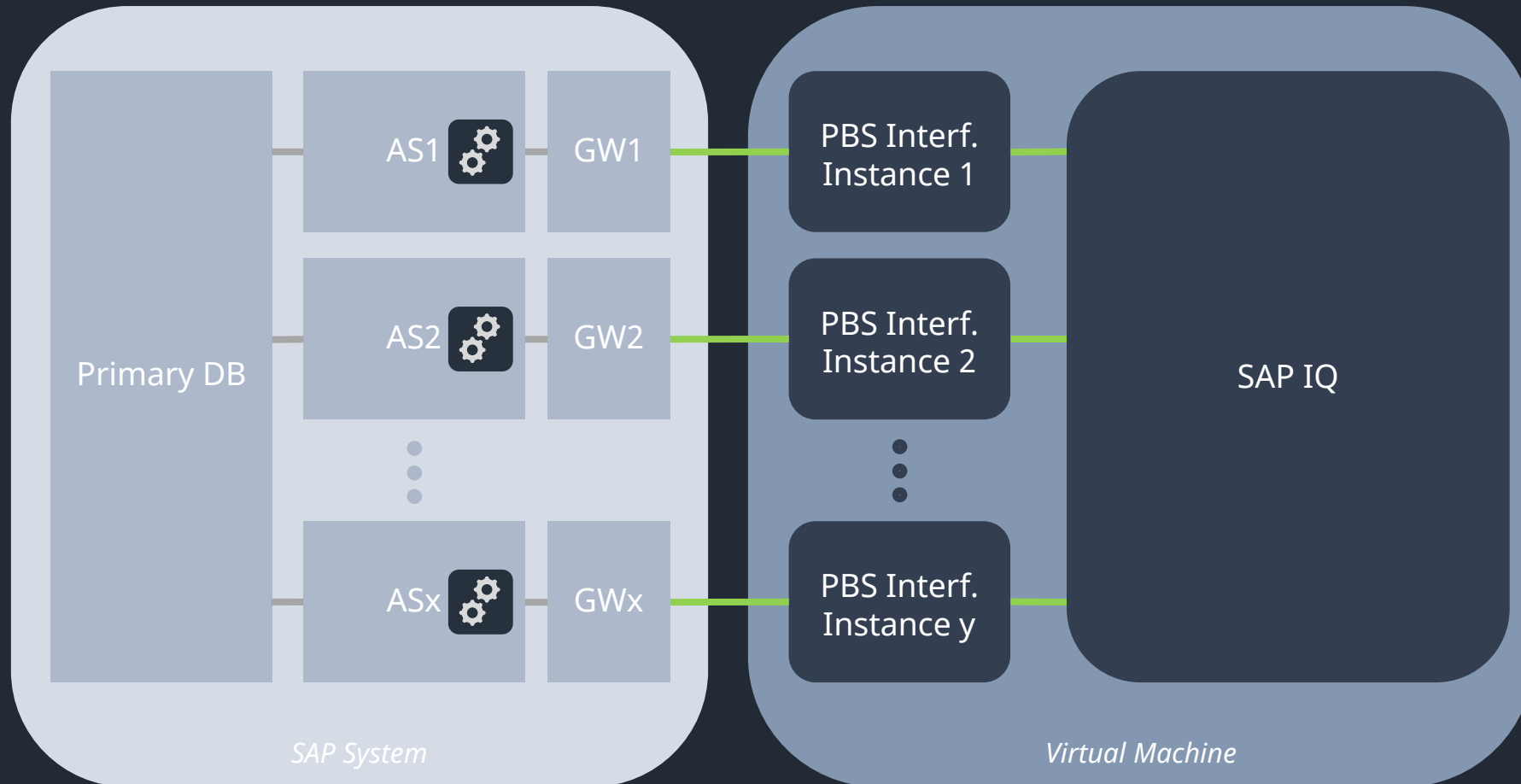
Load  
distribution

Backup

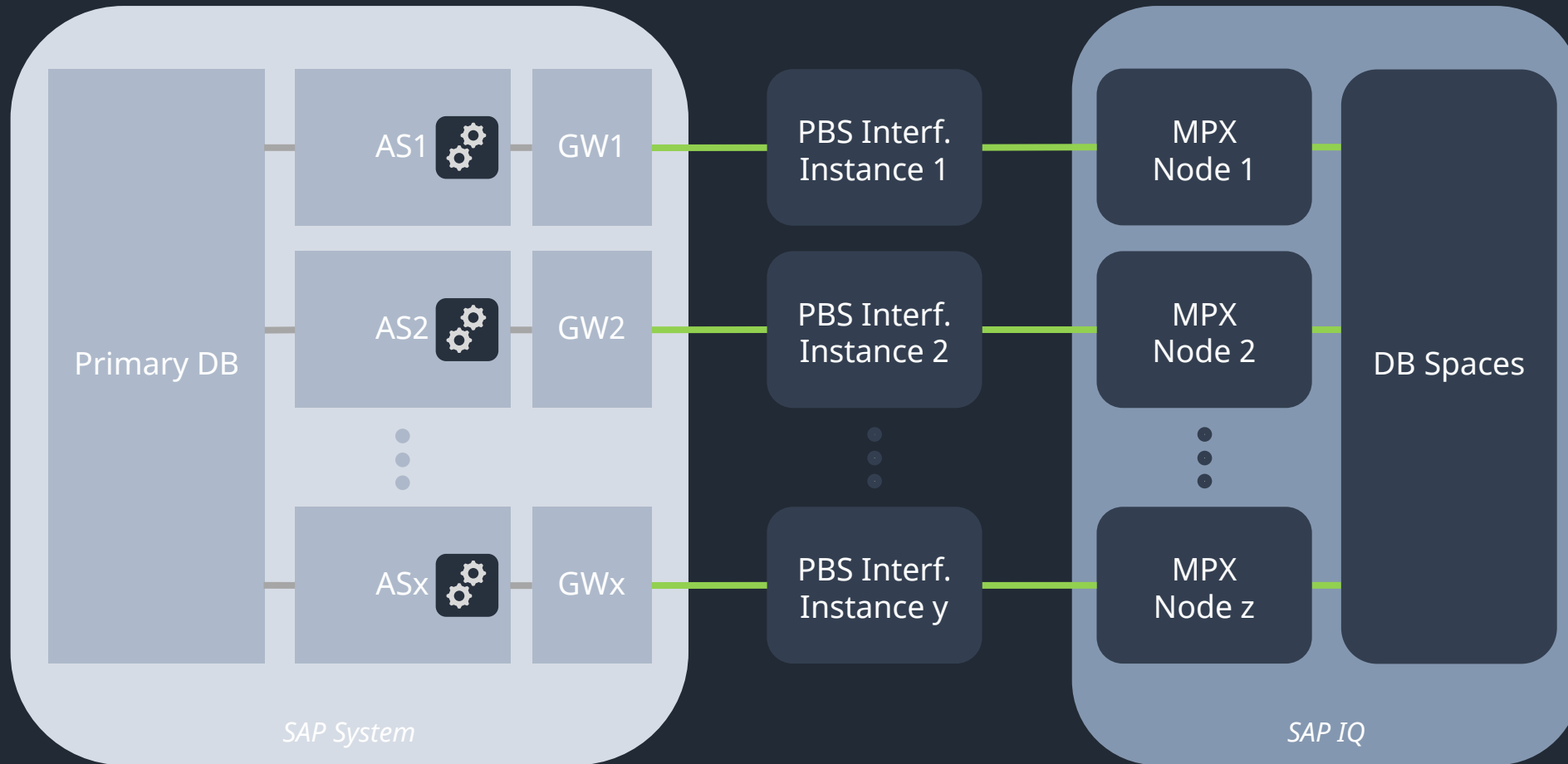
# Miscellaneous – Load Distribution



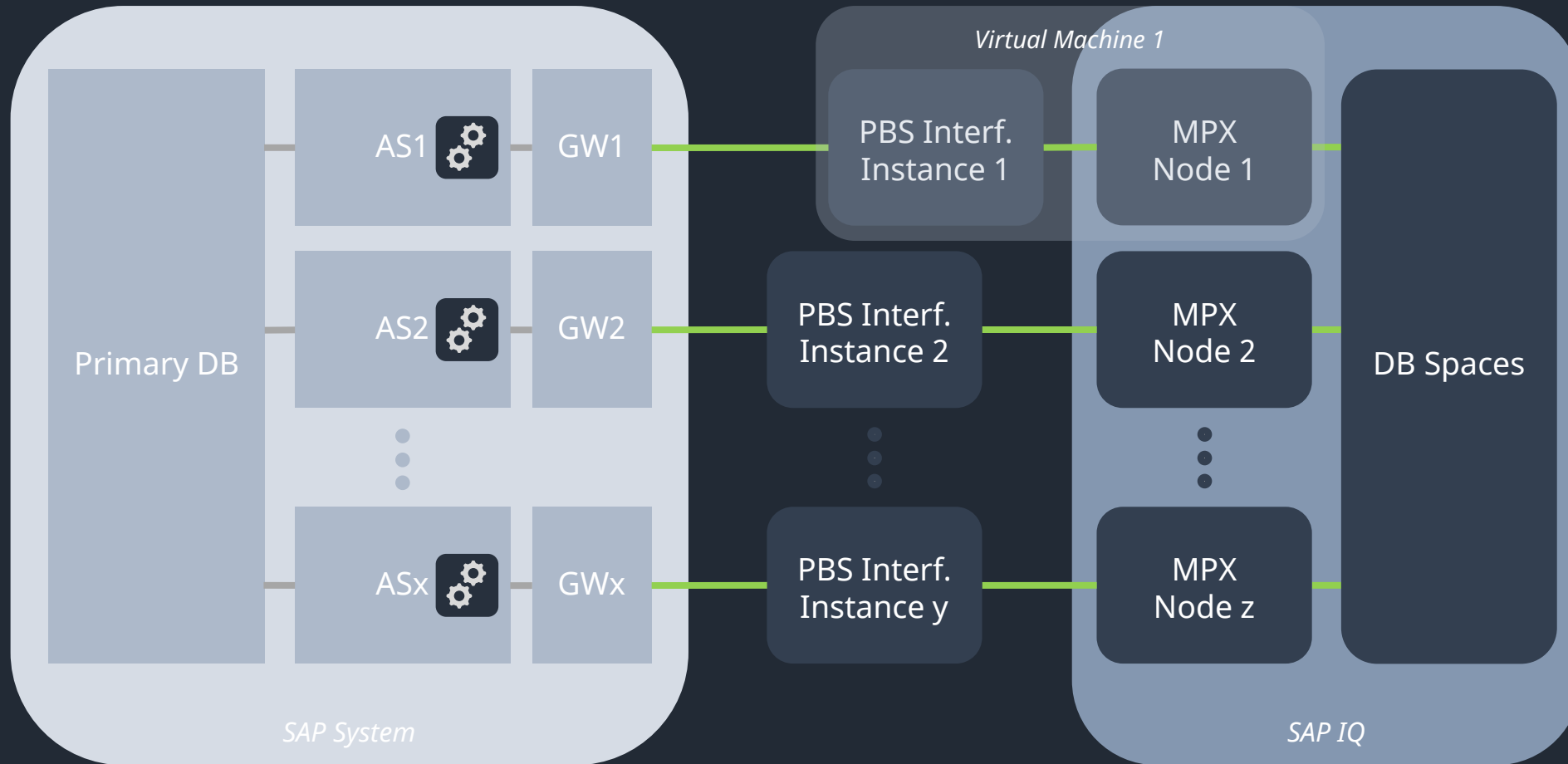
# Miscellaneous – Load Distribution



# Miscellaneous – Load distribution



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# PBS Nearline with SAP IQ – Miscellaneous

Multiple  
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## PBS Nearline with SAP IQ – Miscellaneous

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Load  
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# PBS Nearline with SAP HANA Data Lake IQ

# SAP HANA Data Lake IQ

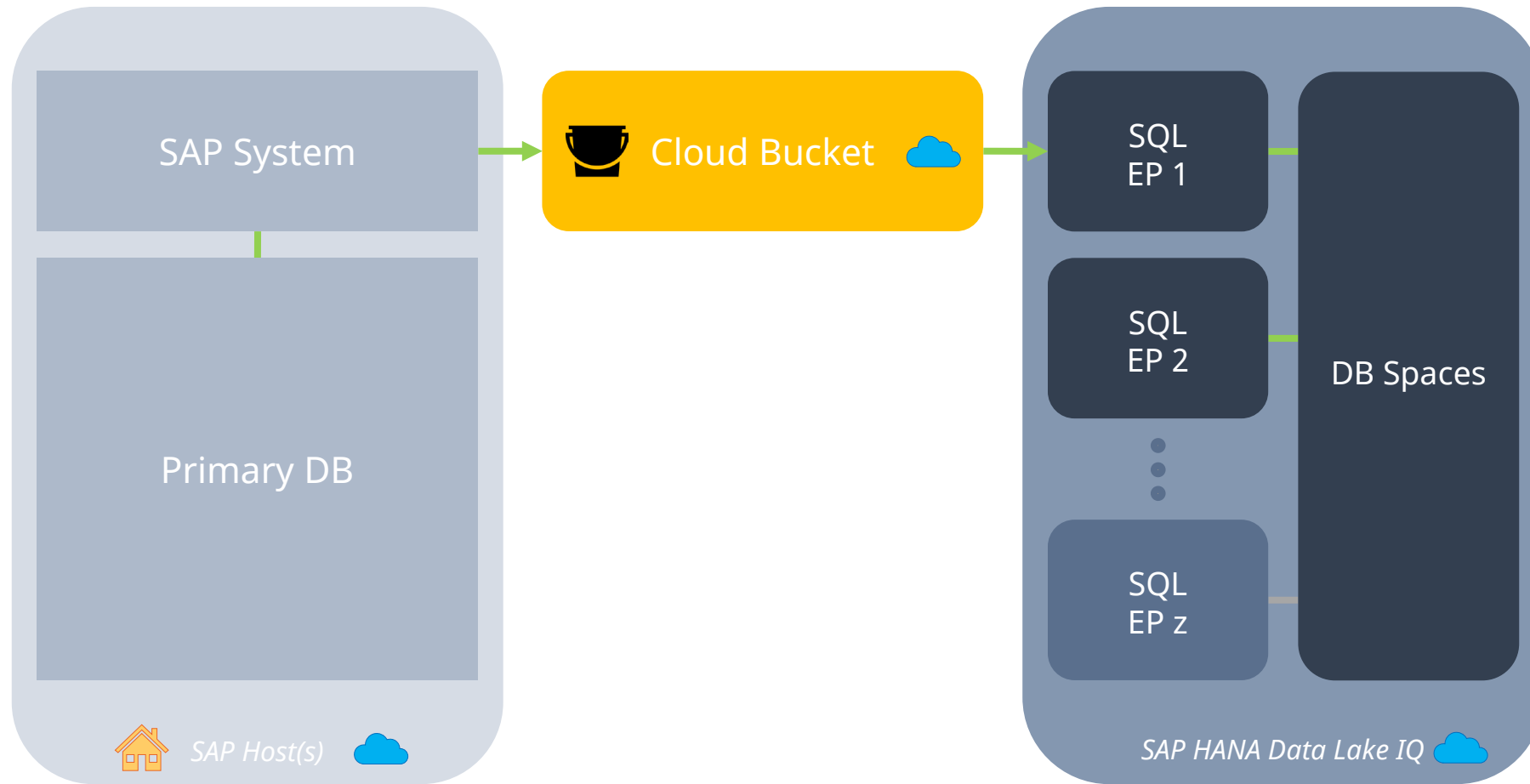
SAP IQ  
(Multiplex)  
in the Cloud

SAP HANA  
Cloud  
Component

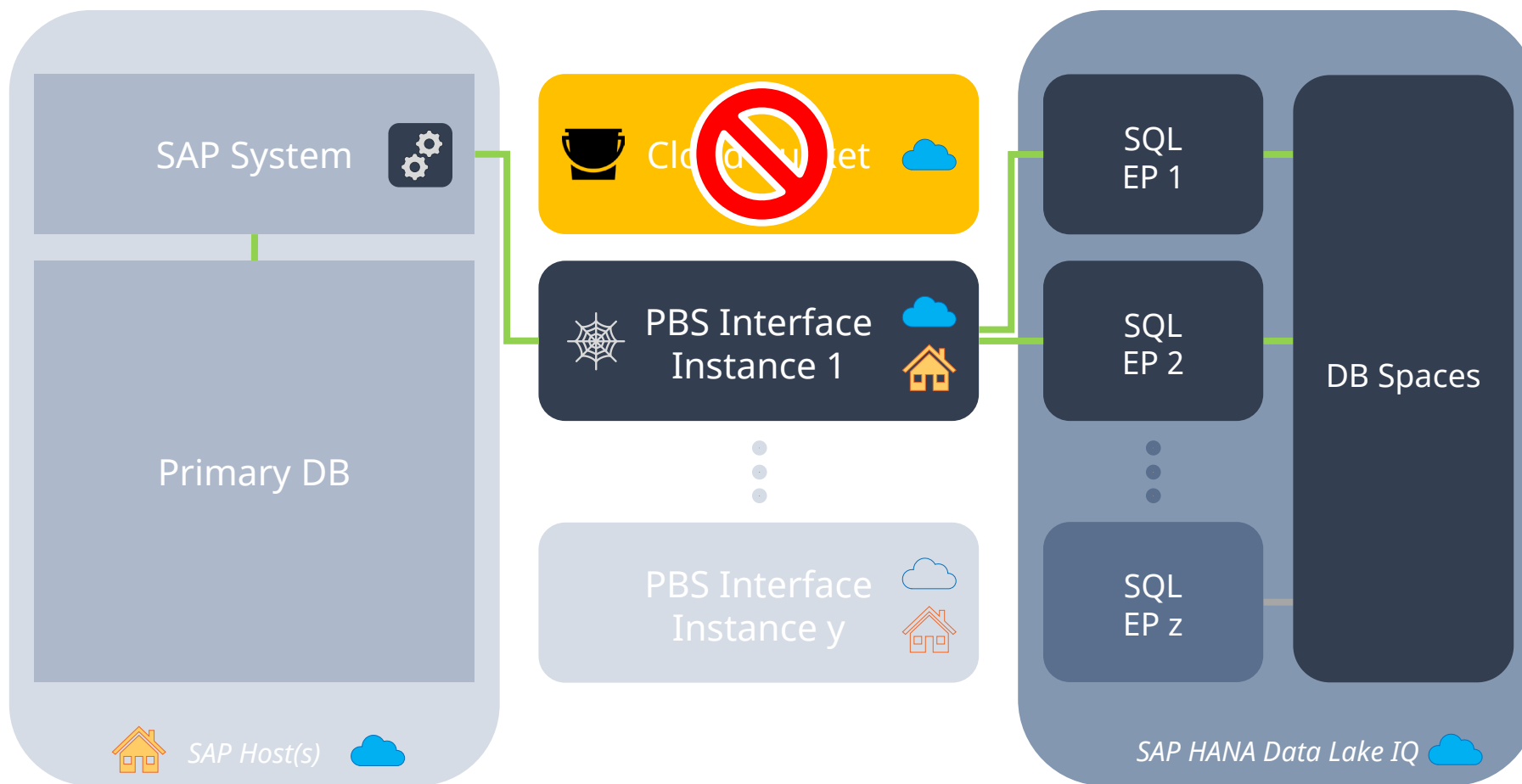
Managed by  
SAP –  
Software as a  
Service (SaaS)

Hosted by  
Microsoft,  
Amazon,  
Google or  
Alibaba

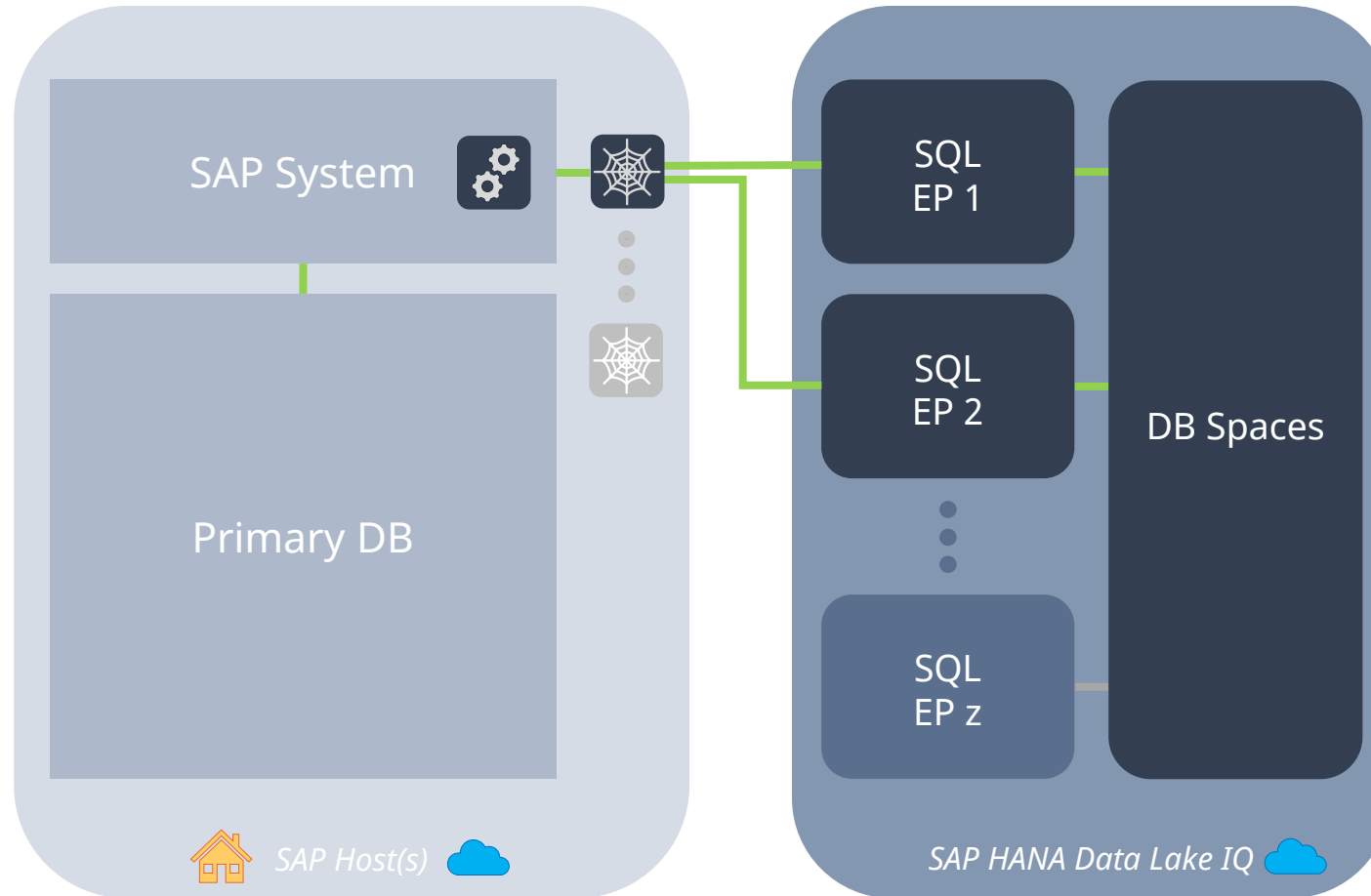
# SAP HANA Data Lake IQ – Reference Implementation (SAP)



# PBS Nearline with SAP HANA Data Lake IQ



# PBS Nearline with SAP HANA Data Lake IQ



## Best Practice – Performance in Sidecar

# Best Practice – Performance in Sidecar



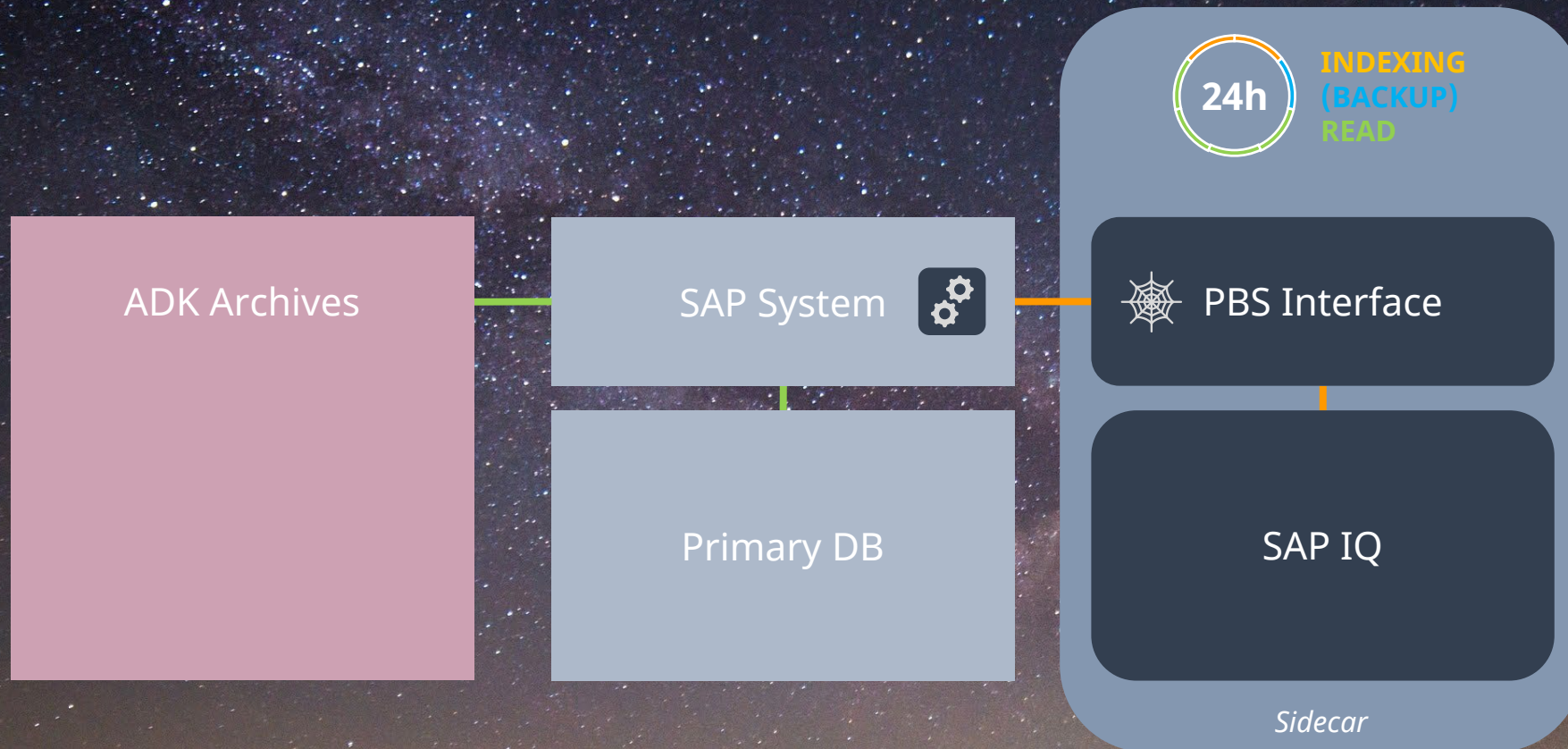
Separate timeslices for  
**LOADs**, **BACKUPs** and **SELECTs**  
provide performance and save resources.

# Business Cases



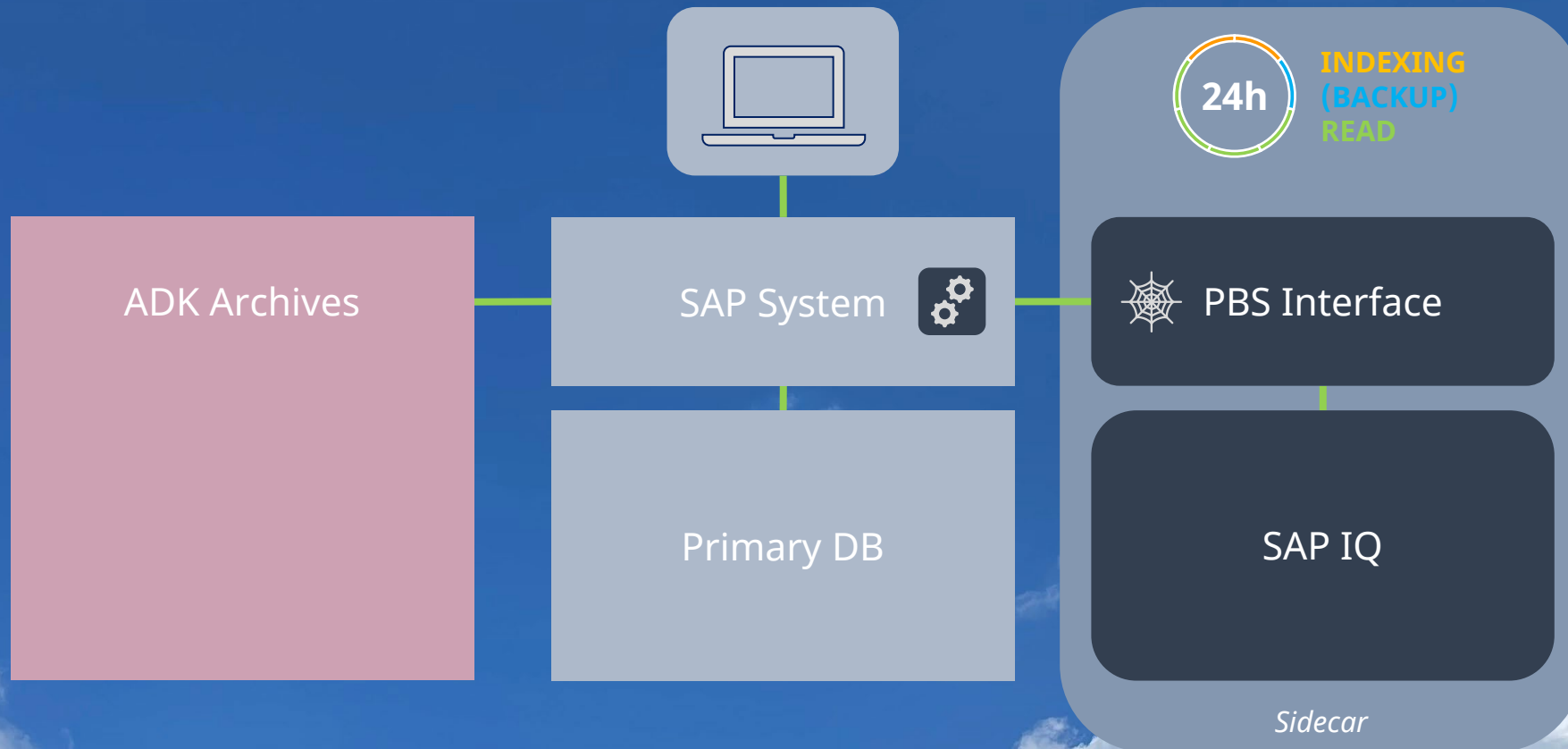
# Turbo for the Archive – Indexing of ADK Archives

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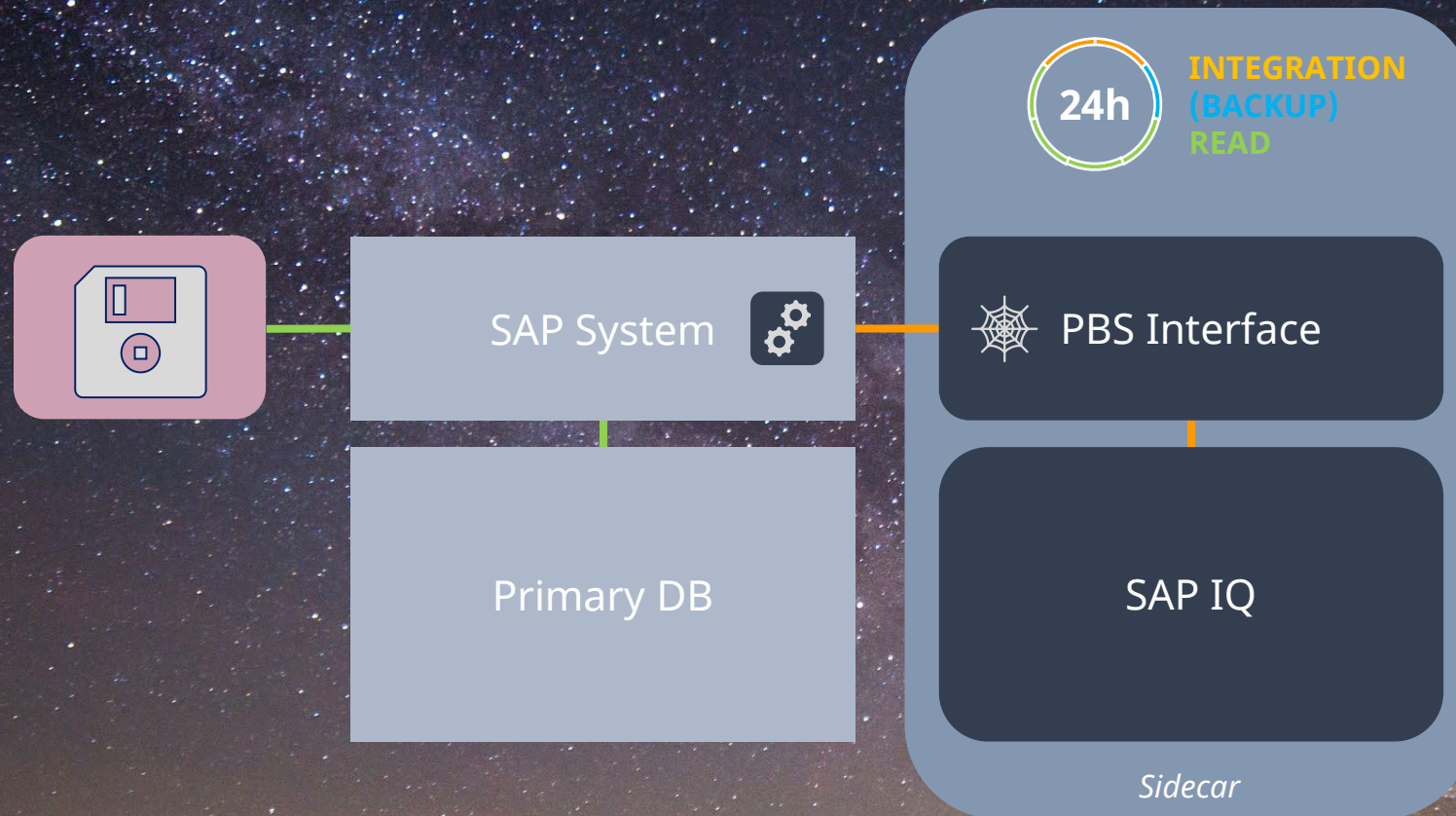
# Turbo for the Archive – Indexing of ADK Archives



# Integration of external data

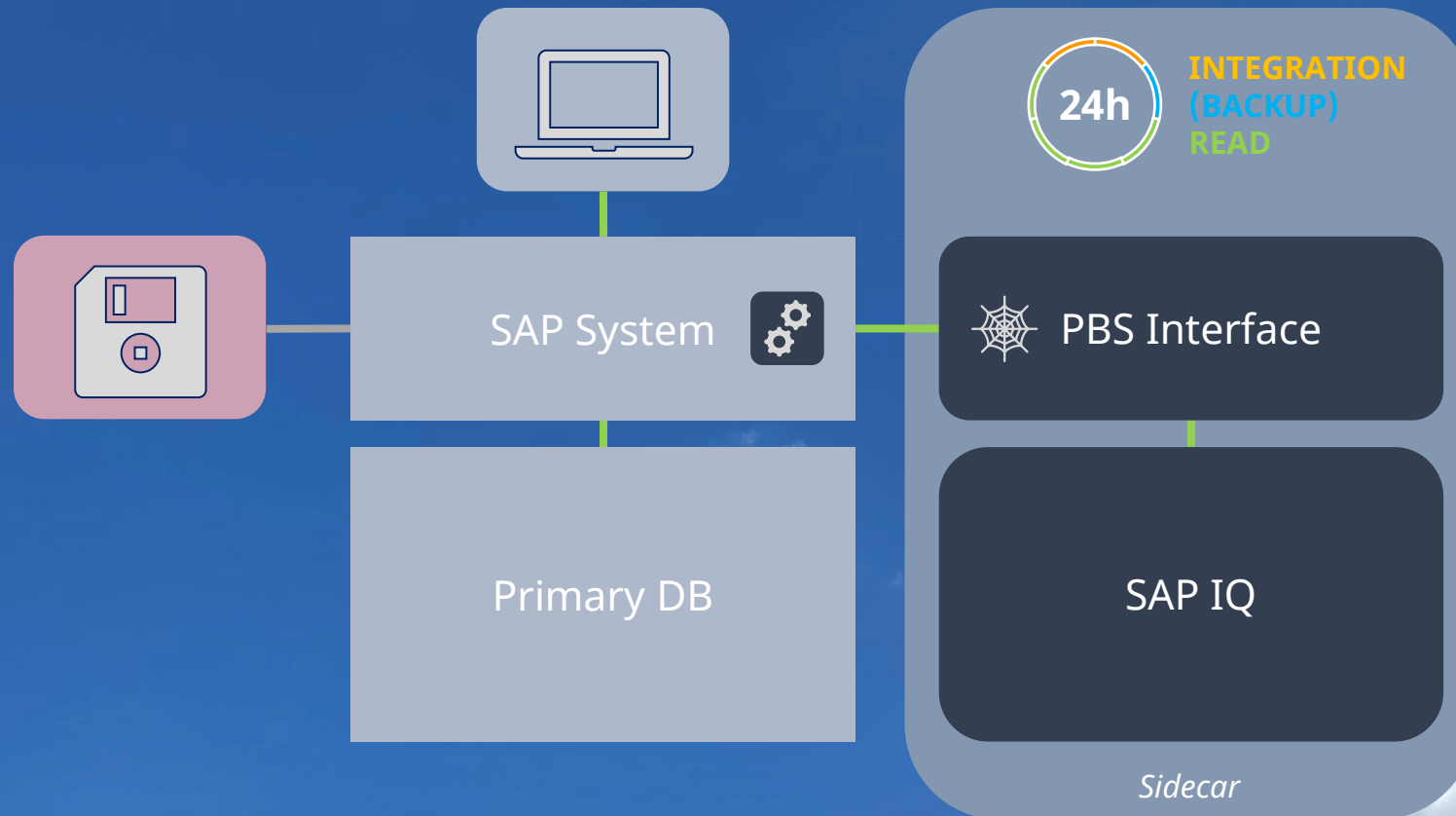


# Integration of external data

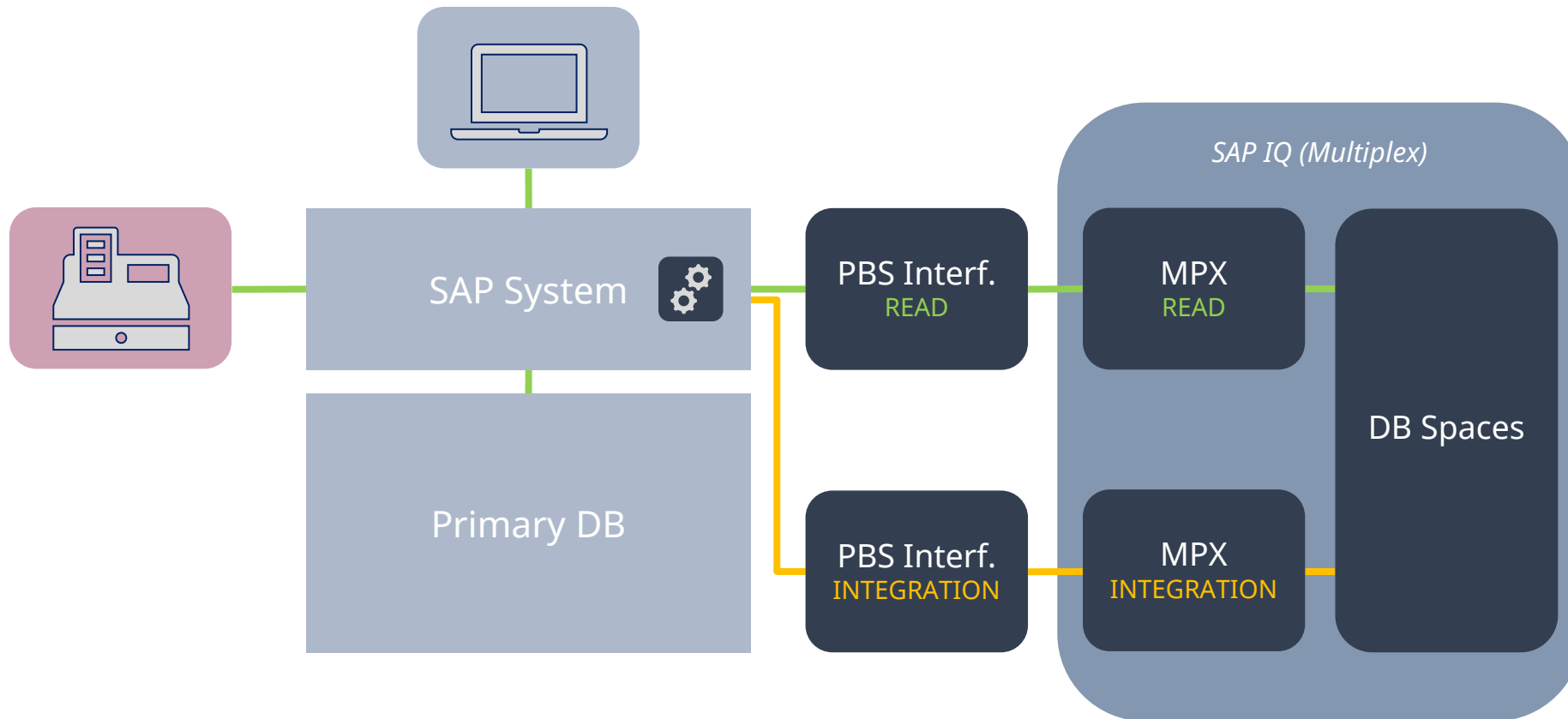




# Integration of external data



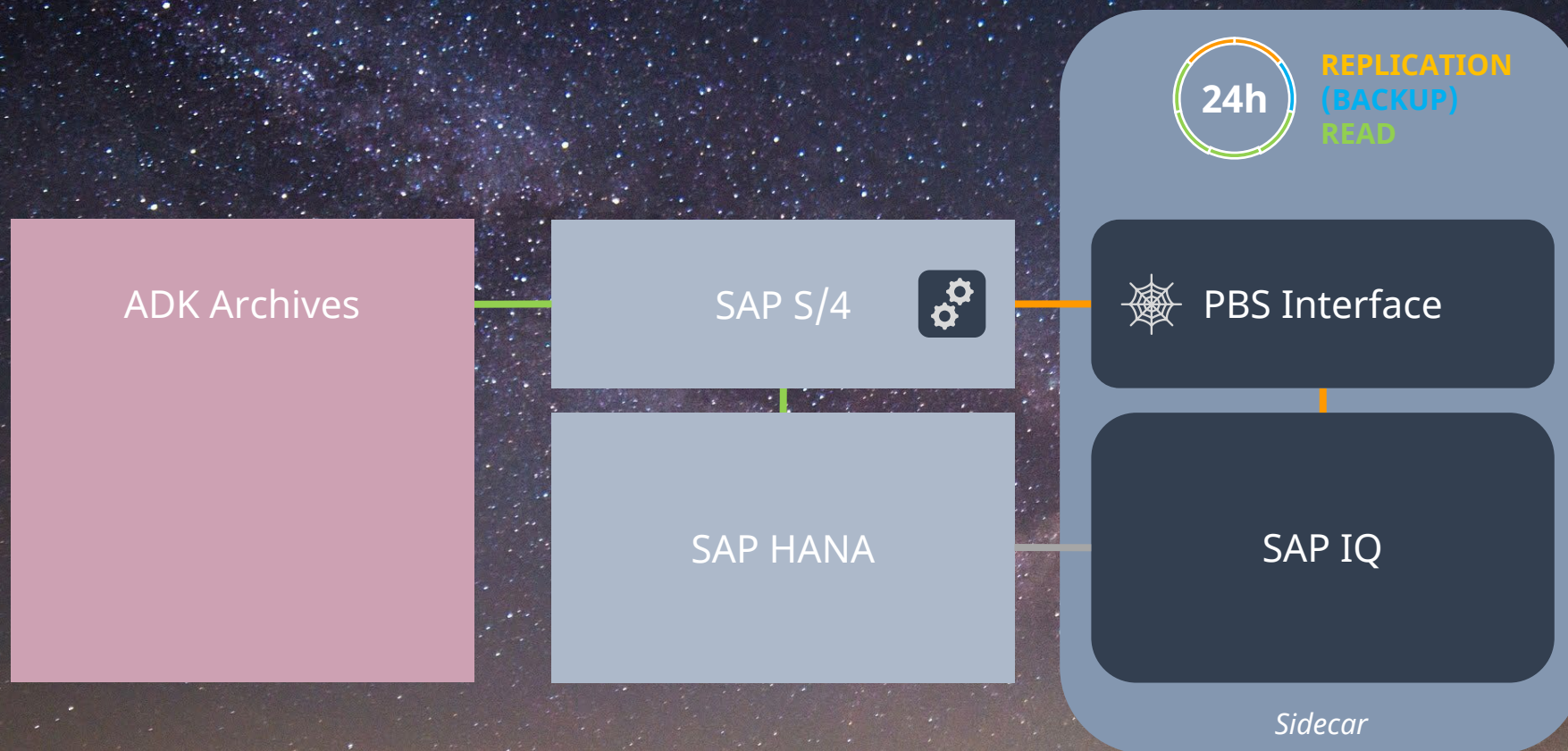
# Permanent integration of external data



# Fiori Apps with Archive Access

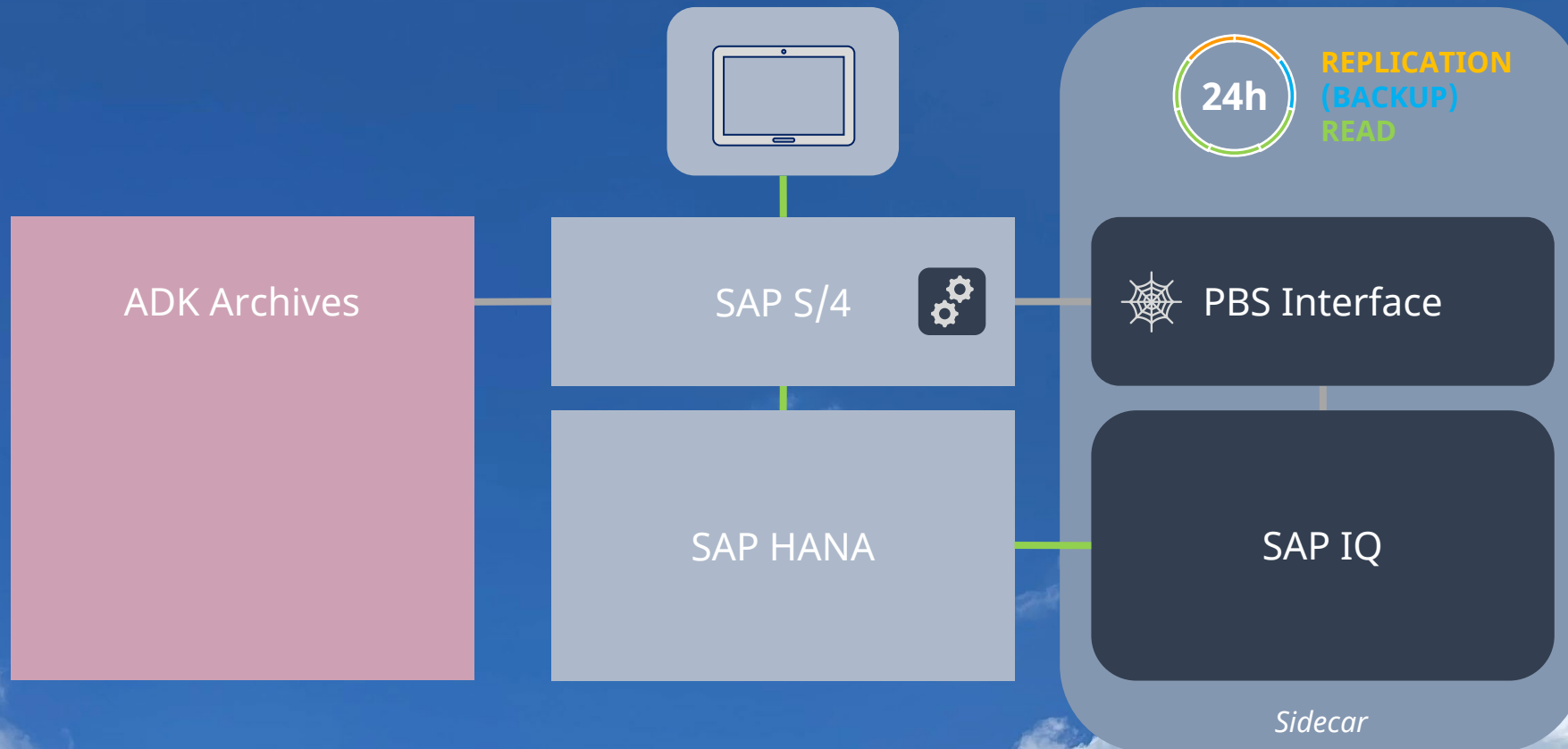


# Fiori Apps with Archive Access



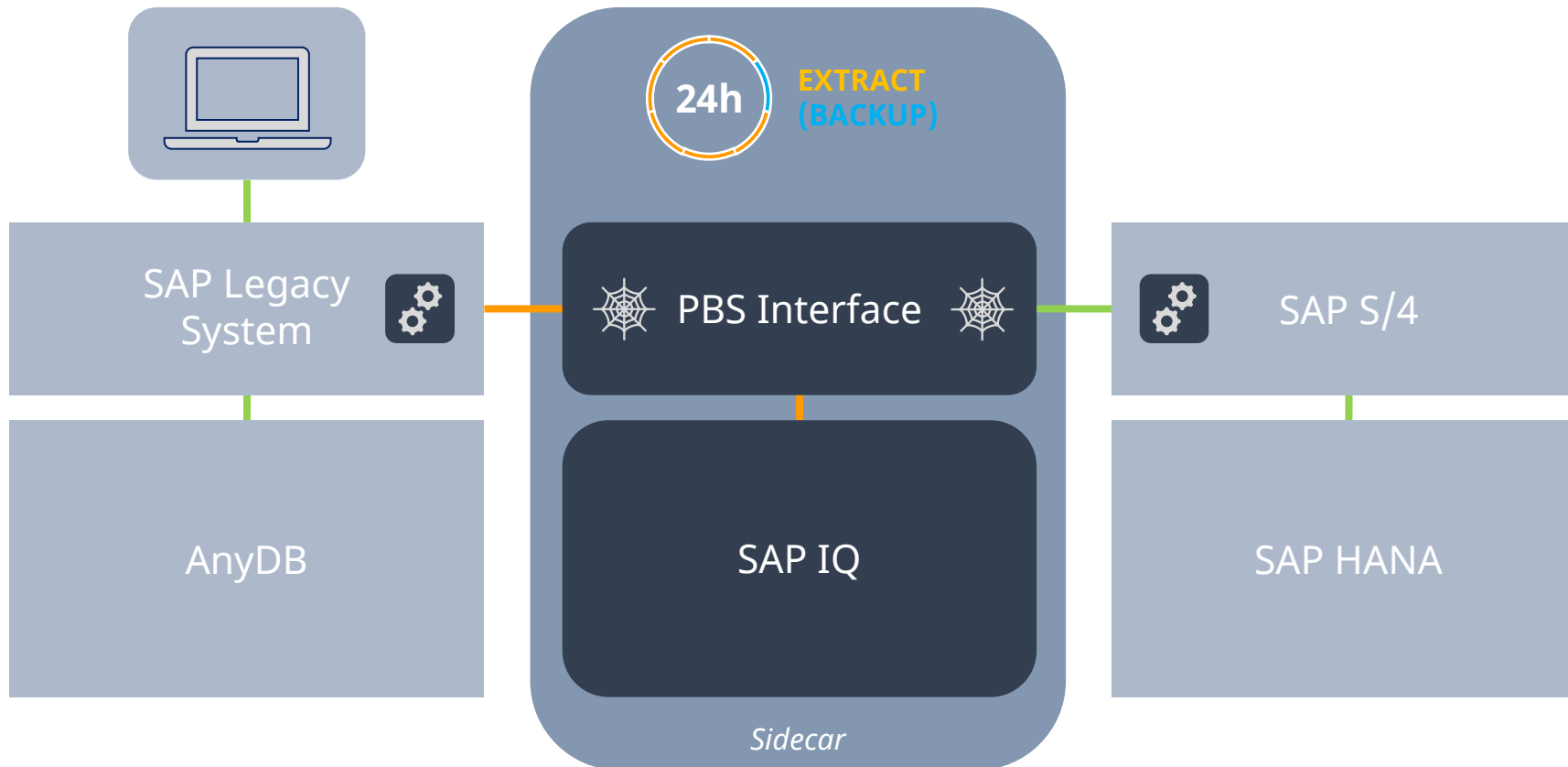


# Fiori Apps with Archive Access

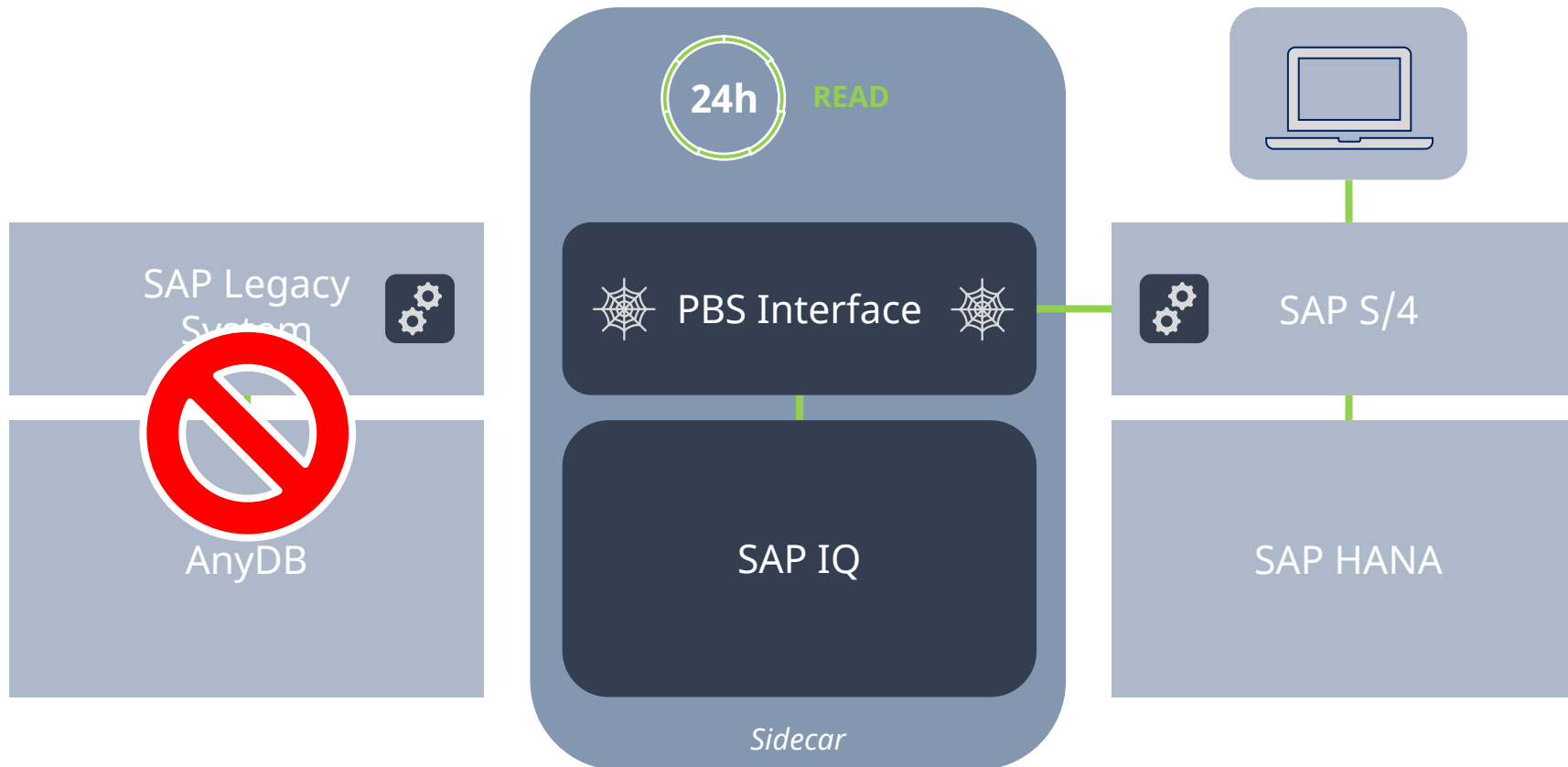


# SAP Legacy System Decommissioning (PBS NAA)

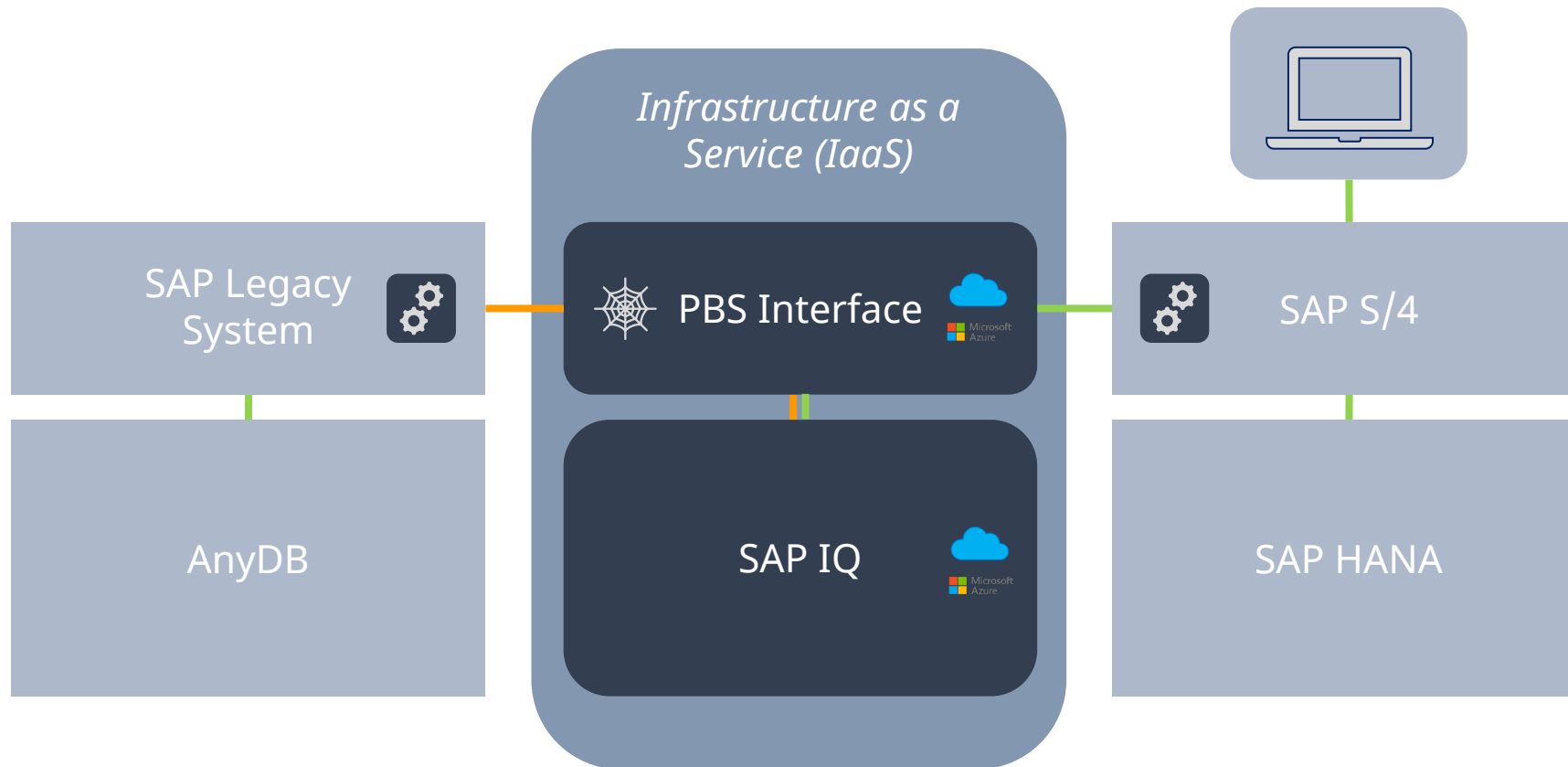
# SAP Legacy System Decommissioning (PBS NAA)



# SAP Legacy System Decommissioning (PBS NAA)



# SAP Legacy System Decommissioning (PBS NAA) – with nexQuent in Azure Cloud



# Summary

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SAP IQ is a very well scaling, strongly compressing and easy to manage database.

IQ

PBS nearline is a stable and very flexible interface between SAP systems and sidecar databases.



The combination of PBS nearline and SAP IQ is the fundament for numerous applications in the modern SAP environment.





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