

AGENDA

- Our mission & key figures & maturity
- 2. Technical Stack & Rationale
- 3. Our Services
- 4. Cycle 7 KPI & Learnings
 - 1. Engineering
 - 2. Operation
 - 3. Business







MISSION & MATURITY

SERVICE DESCRIPTION

WHO.

- Project Design Authority
- Software Engineer
- Security Devops

WHAT

Provide a competitive database service offer

Improve performance and stability of using Azure PaaS databases

Extend azure PaaS database service catalog

HOW

- Managed services (SLA, Upgrades, support)
- Dedicated cloud resources to the project
- Mutualize transversal cloud resources (CSOC, Infrastructure as Code, Monitoring)
- Provide indexing databases based on Opensearch
- Use mature observability stack

- Perform a data exploration and data visualization
- Optimize stability and performance of databases
- Optimize cost of a digital product

- Reduce data exploration and visualization by 30%
- Reduce time to investigate performance issues and latencies by 80%
- Reduce Trustnest billing until 70%

USE CASES AND EXAMPLES

BENEFITS



CURRENT MATURITY – SEPTEMBER 2022

9 instances of DBAAS:

- 3 DBAAS opensearch in **production** (DTP from AVS, Digital Test Bench from TGS, URS Analytics from URS)
- 5 DBAAS opensearch sandbox
- 1 DBAAS postgresql sandbox

Maturity:

- DBAAS Opensearch in General Availability
- DBAAS Postgresql and CosmoDB in Early Adopter



Mission: Provide a dedicated* Databases up to Production.

- Provide the best performances (avoiding side effect)
- Facilitate customization (sizing, region, custom integration with third parties)

- Implement gradual security measures (according to the project phase)
- Enhance development activities (engineering tool integration, BYOD)
- Help to go to production by accepting commitments (Shared responsibilities)
- Contribute to project scalability (scalable pricing model)

^{*} managed databases, ie deployed in the trustnest dbaas infrastructure





TECHNICAL STACK & RATIONALE

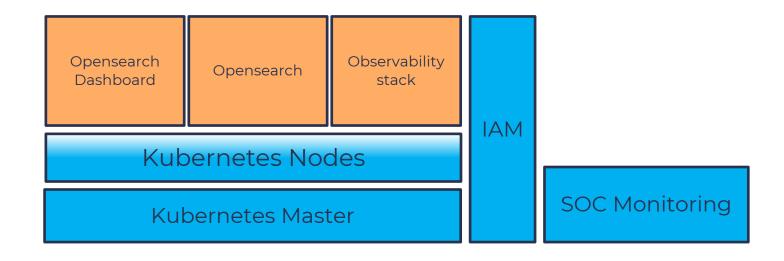
RATIONAL

- 1. First choice: Use Azure PaaS Databases by default
 - Benefit from Azure roadmap
 - Provide Ready to use service in short term
 - Delegate low level operation to Microsoft
- 2. Second: Use Component of the shelf (COTS) over Kubernetes
 - Benefit from k8saas roadmap and maturity
 - Delegate low level operation to k8saas team
- 3. Third: Use Component over laaS Landing Zone
 - Special case



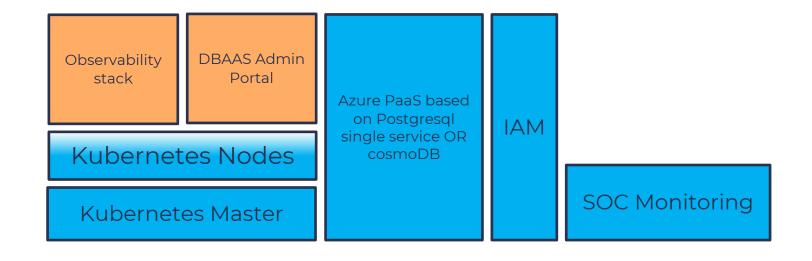
WHAT IS TRUSTNEST DATABASE OPENSEARCH?

AZURE Open Source



WHAT IS TRUSTNEST DATABASE POSTGRESQL & COSMODB?

AZURE Open Source



HOW TO CHOOSE THE RIGHT DATABASE FOR YOUR APPLICATION?

Consider Postgresql when	Consider CosmosDB when	Consider Opensearch when	
Your data is highly structured , and that structure doesn't change frequently	You're working with large amounts of unstructured data that doesn't fit the relational model	You're working with unstructured application traces , events and logs	
You support transaction-oriented systems	You require the flexibility of a dynamic schema or want more choice over the data model	You want to build your structure around indexes	
You require a high degree of data integrity and security	You require a database system that can be scaled horizontally	You want to easily create dashboards , based on search patterns	
You routinely perform complex queries	You want to streamline development and avoid the overhead of a more structured approach	You want to search in plain text in your data for discovering patterns, deviations, and enhance analytics	

DBAAS OVER AZURE DATABASES

Observability

- Azure: 50 Metrics

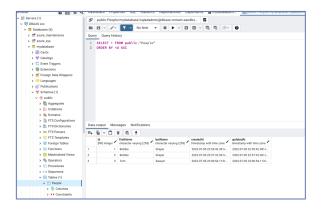
- DBAAS: 200+ metrics

- Per customer metrics + single pane of glass



Operability

- Postgresql administration with DBAAS managed pgAdmin
- Continuous backups







OUR SERVICES

DBAAS SERVICE OFFER

	Postgresql Single Server	CosmoDB	Opensearch
Description	Relational database	Non relational database	Indexing database
Discover	Fixed fees free for 6 months		
Innovate	(on demand)		
Industrialize	Not available	Not available	(on demand)

THALES GROUP OPEN

DBAAS LAST DELIVERIES & ROADMAP



EA: Early Access
GA: Global Availability



