



## Database Management System



### **What's ODAK ?**

ODAK, is a DBaaS platform that emerged with the combination of open source technologies with the assurance of HAVELSAN. The platform enables organizations to access database services with important values such as high performance, scalability and redundancy without the need to manually manage infrastructure components so that they can use their database systems.

#### **Values**

All Components on Single Platform ODAK provides the opportunity to easily manage the database, hardware and operating system on a single platform with high performance, redundancy and accessibility. While the platform provides fast, comfortable and secure service with the performance values it guarantees with its hardware components, it makes it possible to perform all management processes through a single platform with its user-oriented interface.

#### **Reference Architectures**

ODAK provides corporate solutions in database management processes with reference architectures related to installation, replication, backup and security approaches.

#### **High Availability**

ODAK provides backup and restore from the database and disk layer.

#### **Cost Effective Solutions**

ODAK promises to save a minimum of 50% on your database management costs. Eliminates the need for expensive hardware by integrating with standard x86 servers. Since it is developed with open source technologies, it saves higher licence costs.

#### **Security**

Databases are managed on enterprise-specific servers.

#### **Expert Team**




The support of HAVELSAN teams, who are experts in their field, is available in all kinds of problems that may occur while using ODAK.

### **Product Features**

- » DBaaS
- » Management of All Database Components From a Single Platform
- » Reference Architectural Structure for Installation, Replication, Backup and Security Approaches
- » Backup and Restore in Database and Disk Layer
- » Integrated with Standard x86 Servers
- » Private Server to the Institution
- » Guaranteed 1M I/O, 200K TPS, <1ms Latency (on 1 unit server)
- » Role-Based Management
- » Log Management
- » CNI and CSI Packages Management Used in Kubernetes with a Customized PCI Card
- » Cluster Management
- » Load Balancing
- » Backup and Recovery Based on Volume, DB and Table
- » Query Management
- » Detailed Reporting with Alarm and Notification Management
- » Integration with Cloud Native Applications
- » Expert Team Support



## Hardware Properties

| HARDWARE TYPE   | CPU              | RAM    | DISK FOR DATA STORAGE    | OS AND DOCKER REGISTRY       | NETWORK                      | PCIe CARD  |
|---|------------------|--------|--------------------------|------------------------------|------------------------------|--|
| <b>SMALL</b><br>  | 2 x Silver 4214R | 192 GB | 8 TB (4 x 2000 GB NVMe)  | 960 GB (2 x 480 GB Sata SSD) | Over 40 GbE QSFP+ 4 x 10 GbE | Customized card for high I/O, QoS and infrastructure management operations |
| <b>MEDIUM</b><br> | 2 x Silver 5218R | 384 GB | 8 TB (4 x 2000 GB NVMe)  | 960 GB (2 x 480 GB Sata SSD) | Over 40 GbE QSFP+ 4 x 10 GbE | Customized card for high I/O, QoS and infrastructure management operations |
| <b>LARGE</b><br>  | 2 x Silver 623R  | 768 GB | 32 TB (4 x 8000 GB NVMe) | 960 GB (2 x 480 GB Sata SSD) | Over 40 GbE QSFP+ 4 x 10 GbE | Customized card for high I/O, QoS and infrastructure management operations |



**+900K IOPS**




**+200K TPS**




**<1MS LATENCY**


## PERFORMANCE

Minimum values that can be received in a 1 unit server are specified.