



# HIWARE PSM & IM for Database

HIWARE Privileged Session Management and Identity Management for Database

Malindo Air (the Malaysian subsidiary of Indonesia's Lion Group) have suffered a massive data breach, resulting in the information of millions of passengers being leaked.

And it appears to have come after ex-staffers at a contractor the company employs improperly access to the database and stole personal data belonging to its customers.

Tens of millions of sensitive personal information exposed

PassengerID	PassengerType	ReservationID	Title	FirstName	SurName	DateOfBirth	MobileNo	PassportNo
"Adult"	"273000"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
"Adult"	"273000"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
"Adult"	"SL30001"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
"Adult"	"SL30002"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
"Adult"	"SL30003"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
"Adult"	"SL30004"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
"Adult"	"SL30005"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
"Adult"	"SL30006"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
"Adult"	"SL30007"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
324054	"Child"	"SL30007"	"Passr."	"Passr."	"Passr."	"Passr."	"Passr."	"Passr."
324054	"Infant"	"SL30007"	"Passr."	"Passr."	"Passr."	"Passr."	"Passr."	"Passr."
0	"Adult"	"SL30008"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
324057	"Adult"	"SL30008"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
324057	"Child"	"SL30008"	"Passr."	"Passr."	"Passr."	"Passr."	"Passr."	"Passr."
0	"Adult"	"SL30009"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
0	"Adult"	"SL30010"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
0	"Adult"	"SL30011"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
0	"Adult"	"SL30012"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
0	"Adult"	"SL30013"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
0	"Adult"	"SL30014"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
0	"Adult"	"SL30015"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
0	"Adult"	"SL30016"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
0	"Adult"	"SL30017"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
0	"Adult"	"SL30018"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
0	"Adult"	"SL30019"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
0	"Adult"	"SL30020"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
324071	"Child"	"SL30020"	"Passr."	"Passr."	"Passr."	"Passr."	"Passr."	"Passr."
324071	"Infant"	"SL30020"	"Passr."	"Passr."	"Passr."	"Passr."	"Passr."	"Passr."
124076	"Adult"	"SL30021"	"99."	"Passenger"	"Passenger"	"Passenger"	"Passenger"	"Passenger"
124076	"Child"	"SL30021"	"Passr."	"Passr."	"Passr."	"Passr."	"Passr."	"Passr."

The consequences of this incident are far-reaching, the potential harm it might cause to the individuals whom the personal data is about, and the company could face serious fines and negative impact on reputation.

## ! How can we prevent the data breaches caused by insiders?



Reckless database access and abuse of privileges



The retiree's account and privileges are still remain on database



Unable to trace the cause of an incident



Enhance user authentication and database access privilege management



Account life-cycle management and illegal account detection

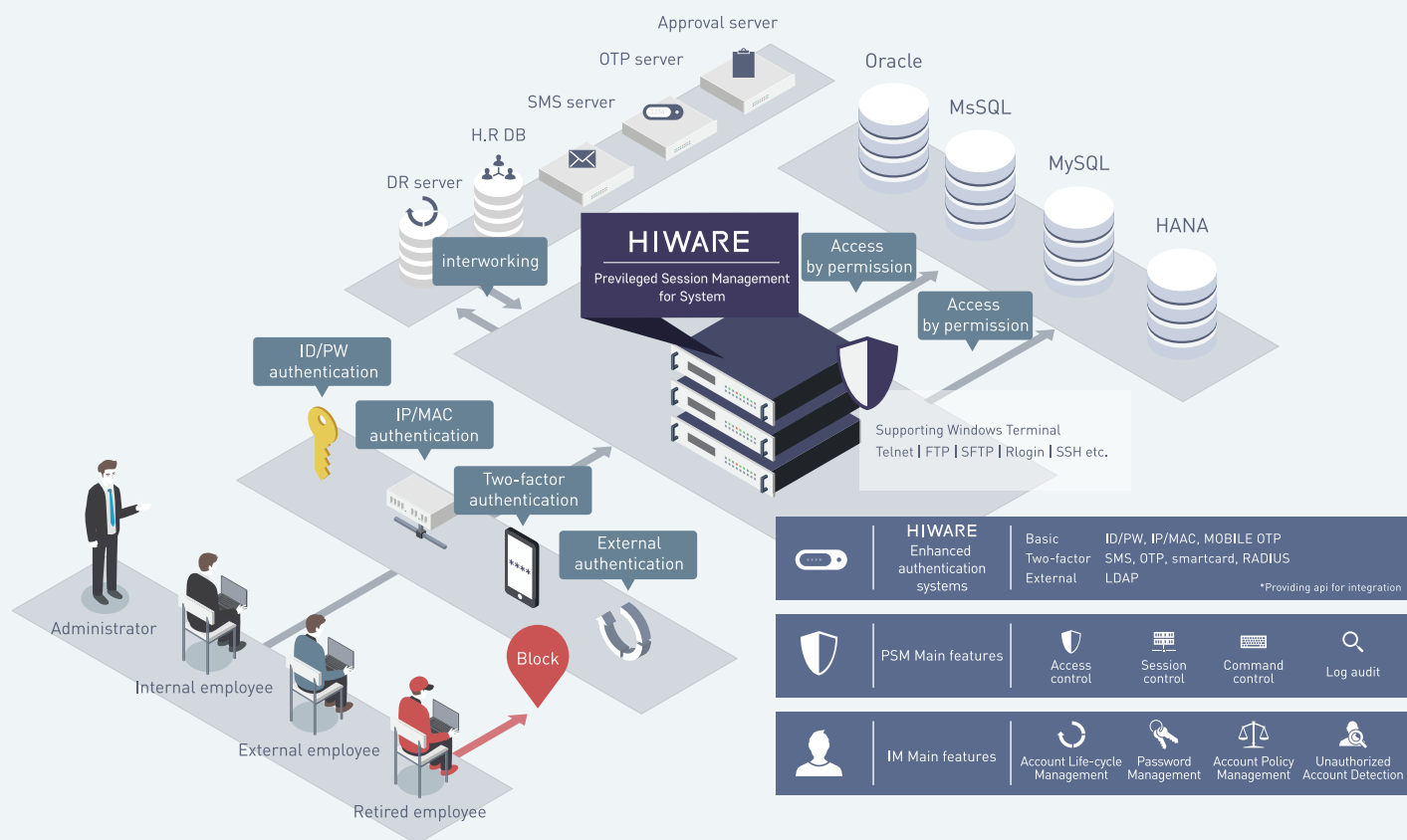


Real-time monitoring and logging for every access and work history



# HIWARE Main Features

HIWARE Privileged Session Management and Identity Management for Database



## HIWARE Privileged Session Management for Database

- Enhanced User Authentication
- Database Access Privilege Management
- Database Query Management
- Real-time Session Management
- Logging and Audit

## HIWARE Identity Management for Database

- Account Life-cycle Policy Management
- Password Policy Management
- Integrated Account Policy Management
- Detection of Retiree/ Inactive/ Illegal Accounts
- Database Authority Management