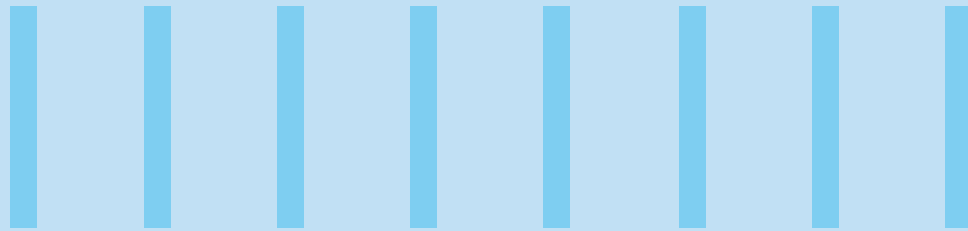




## ORACLE DATABASE@AZURE

### A PRACTITIONER'S POINT OF VIEW



#### Abstract

As organizations accelerate their digital transformation journeys, adopting cloud technologies has become not just a strategic move but a practical way to stay agile, resilient, and innovative in today's fast-paced business environment. Enterprises are increasingly leveraging integrated native cloud service like analytics, generative AI, DevOps tools, and container platform to drive scalable application development and data-driven decision-making. The growing interoperability among leading hyperscalers is enabling seamless workload migration and integration across heterogeneous environments. A notable advancement in this space is the strategic partnership between Oracle Cloud Infrastructure (OCI) and Microsoft Azure, which delivers a unified, best-of-breed cloud ecosystem. By enabling Oracle Exadata systems to run natively within Azure, this alliance empowers enterprises to optimize both application performance and database efficiency—unlocking new levels of operational excellence and business value. This white paper explains how customers can benefit by adopting Oracle Database@Azure (OD@A) with Oracle database hosted on Oracle Exadata systems for the application ecosystem hosted on Azure.

## Introduction

OD@A empowers enterprises with the flexibility to deploy workloads across multiple cloud providers, optimizing performance, cost, and compliance. Oracle has introduced OD@A by providing seamless integration between Exadata cloud service and Azure native cloud services. This provides Maximum availability architecture(MAA) in Azure.

The following key benefits illustrate the advantages of OD@A.

Platform Flexibility

Cost Optimization and  
Licensing Benefits

Performance and  
Scalability

Enhanced Security and  
Compliance

## Platform Flexibility

Platform flexibility presents a significant opportunity to leverage the best native solutions offered by Azure and Oracle, thereby enabling users to maximize performance and efficiency. OD@A provides MAA for Oracle enterprise database and autonomous database on Exadata system in Azure environment.

Infosys OD@A solution incorporates established Azure cloud best practices, thereby creating an optimal service package to meet and excel customer requirements.

Features	Azure
<b>Oracle Exadata Platform in Cloud</b>	<b>ExaCS in Azure</b> <b>Autonomous DB in Azure</b>
Oracle real application cluster	Available
Containerization	Azure Kubernetes Service
DevOps Platform	Azure DevOps
Authentication	Microsoft Entra ID
Generative AI	Azure AI services
Server Less Features	Azure Function

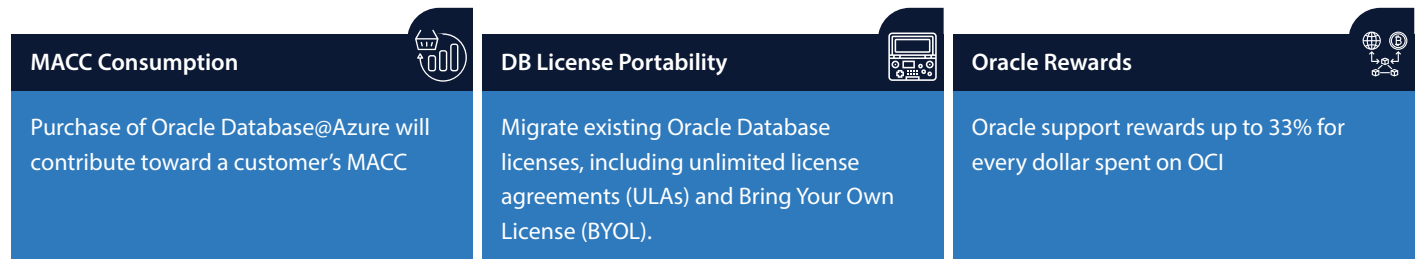
Figure :1 : OD@A Native services



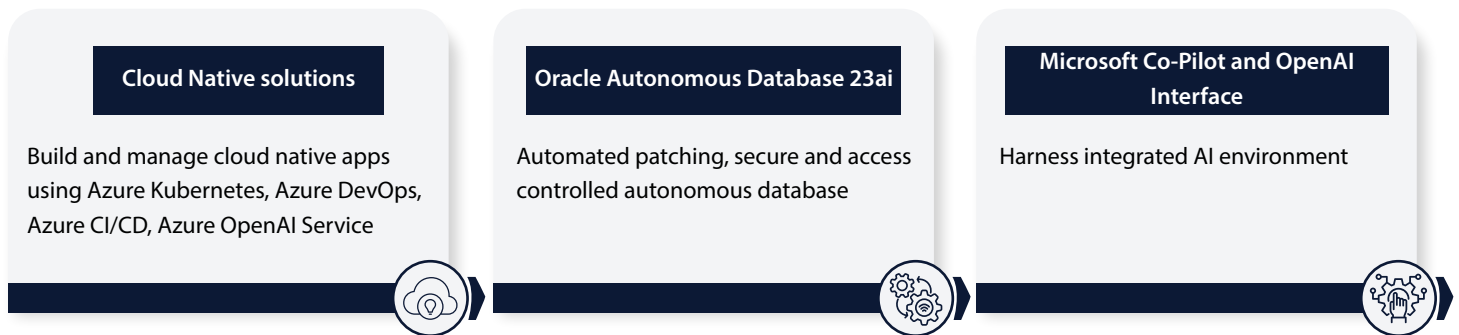
## Key Benefits of Multicloud Adoption

Adopting a multicloud strategy offers a range of advantages for organizations seeking to modernize their IT landscape, as outlined in the following key benefits:

### Commercial Benefits



### IT Landscape Modernization



### Infosys driven value proposition

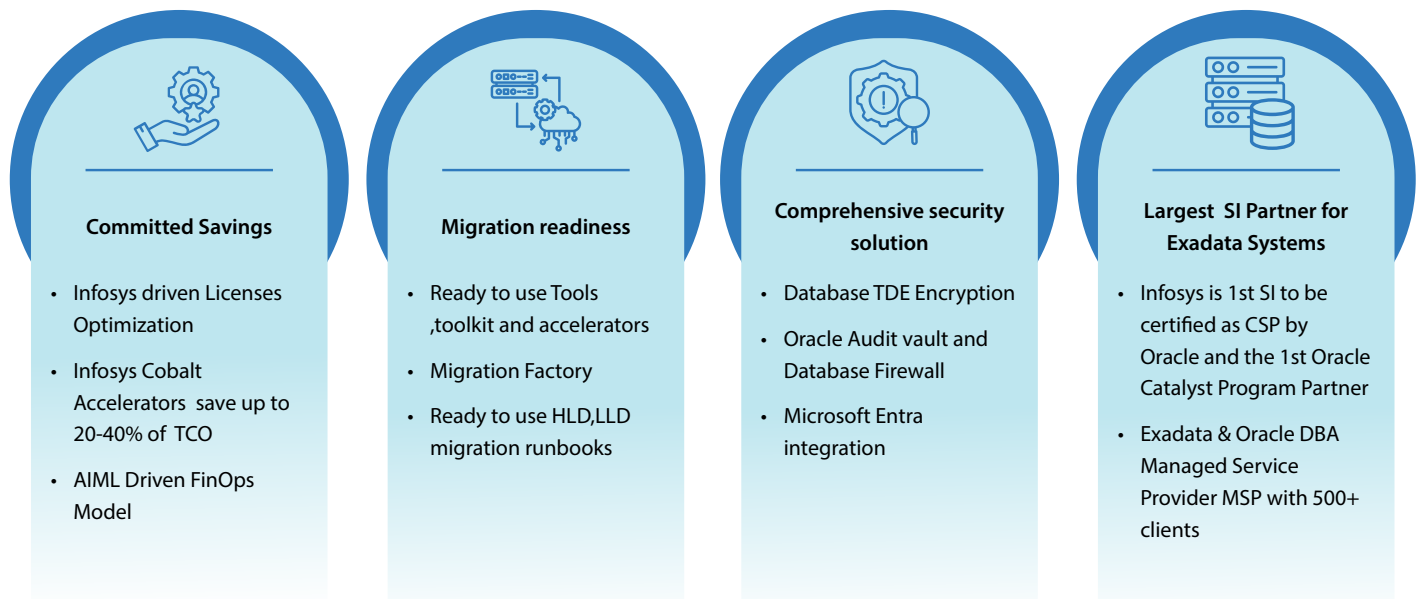


Figure :2: Oracle Database@Azure Infosys Value Proposition

## Cost Optimization and Licensing Benefits

Infosys provides comprehensive approach to cost optimization as an integral element of OD@A adoption solution to customers. It includes optimizing infrastructure sizing, licenses and services cost leading to an overall TCO reduction. Additionally, spend on OD@A contributes to reduce equivalent Microsoft Azure consumption commitment(MACC).

## Performance and Scalability

Infosys-driven capacity planning guarantees optimal infrastructure and precise storage sizing. The Exadata system delivers exceptional performance, ensuring low latency and high throughput. With its dynamic scaling and autonomous database capabilities, it effectively manages dynamic workloads with unmatched efficiency.

## Enhanced Enterprise Security and Compliance

The Infosys security framework effectively integrates Oracle and Azure's robust security measures with essential cloud compliance certifications. Security framework encompasses all layers of IT landscape.

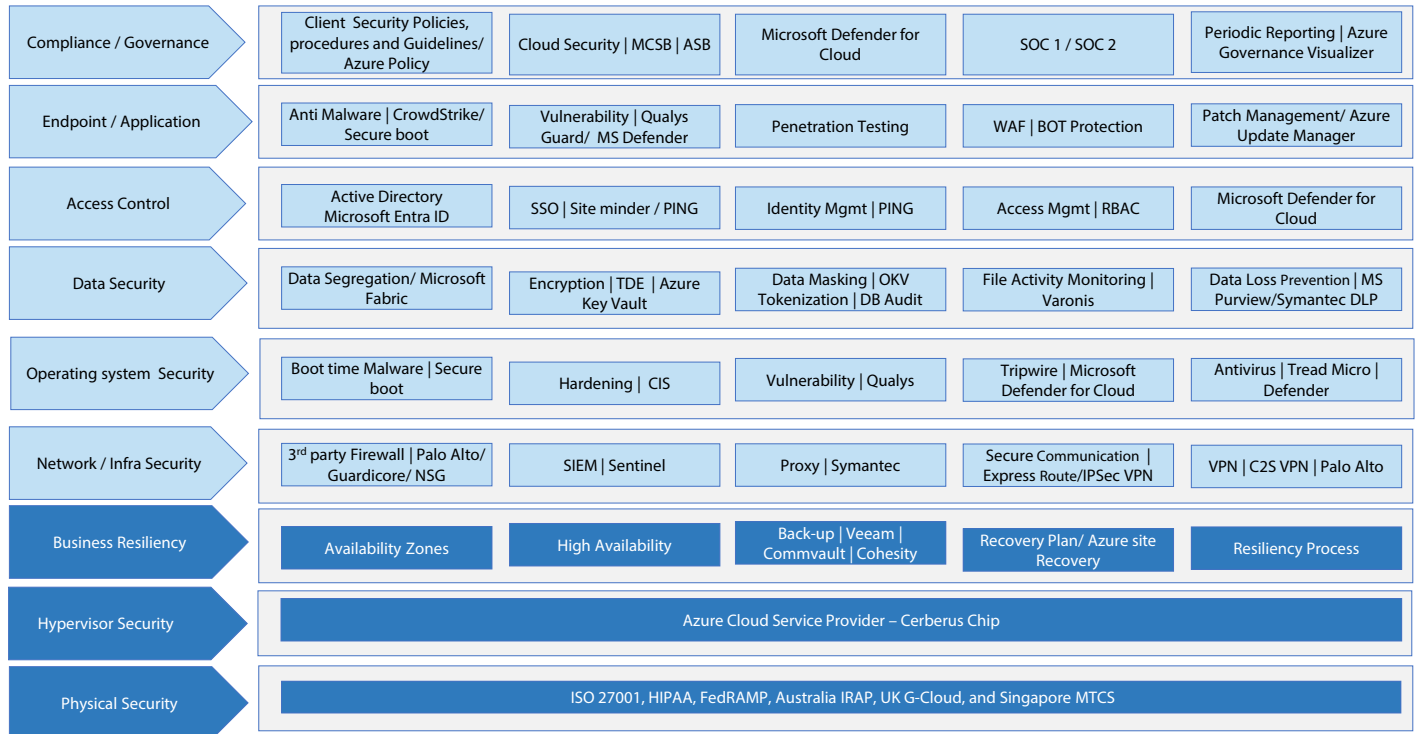


Figure :3 : Infosys Layer wise security framework for OD@A



# Oracle Database@Azure Enablement workflow

Infosys has established a standardized enablement workflow for implementing Oracle Database in the Azure environment. This framework includes a comprehensive template that details all key activities—from assessment, sizing, and procurement to deployment and support of application workloads on the cloud, with the database hosted on Oracle Database@Azure (OD@A). This workflow provides a templated, efficient, and accelerated approach to adopting Oracle Database@Azure, ensuring a quick turnaround time.

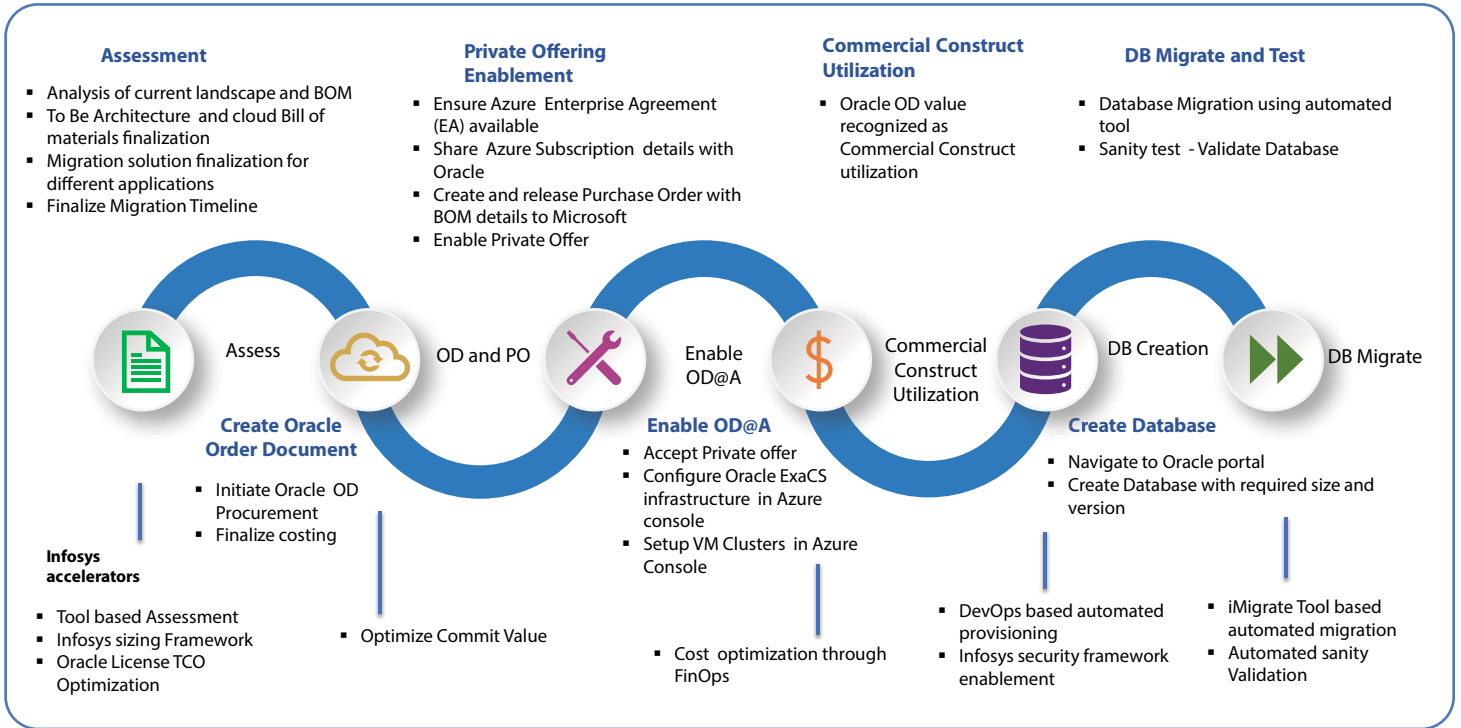
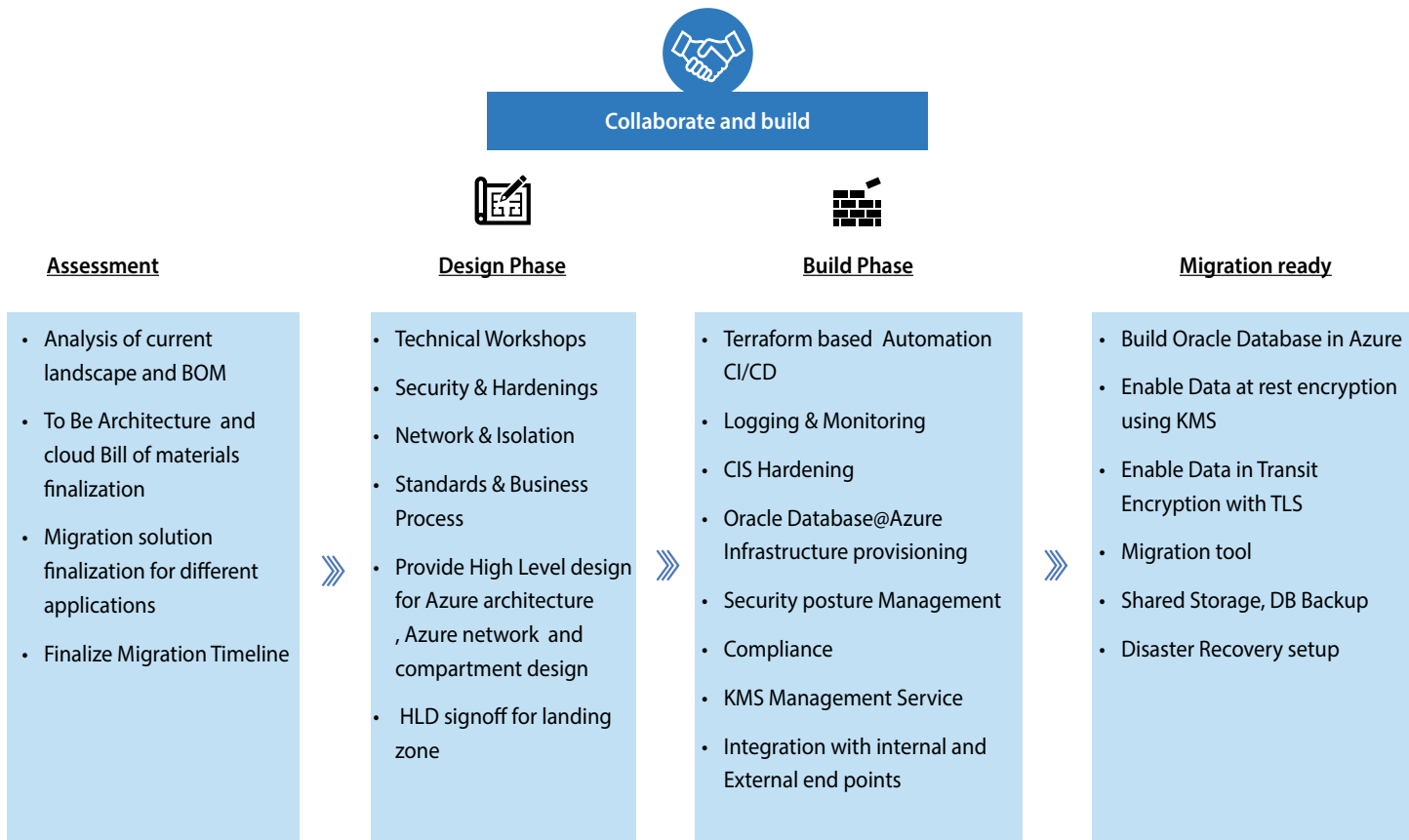


Figure 4: Oracle Database@Azure– Infosys driven Enablement Workflow



# Infosys framework to accelerate cloud migration

Infosys provides a comprehensive cloud migration framework that encompasses the entire process, from tool-driven assessment to efficient, automated migration within an optimal timeframe.



Planning and scheduling the migration by leveraging DevOps practices, beginning with a pilot phase, utilizing the Infosys factory model and an automated migration tool.

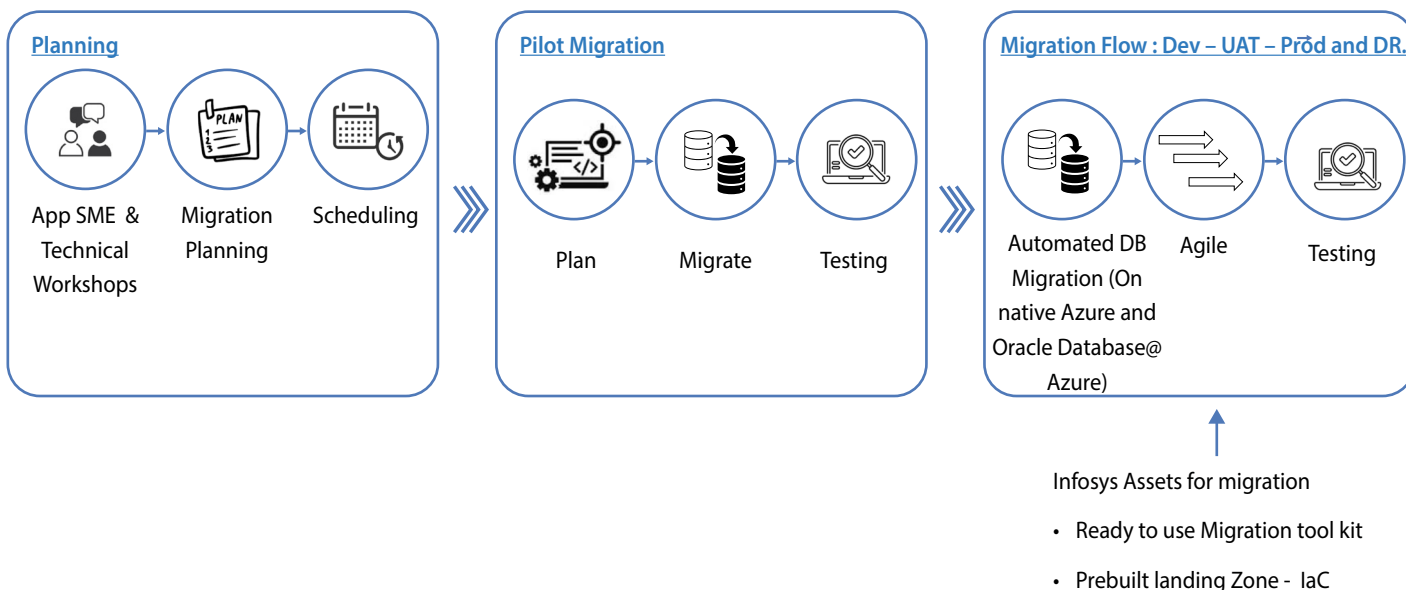


Figure 5: Infosys framework to accelerate cloud migration

## Pilot Project – Oracle EBS migration on Azure with DB migration on OD@A

Infosys successfully migrated Oracle EBS 12.2.14 and the SOA Suite from on-premises environments to Azure, utilizing Oracle Database@Azure (OD@A) for the database tier and Azure Virtual Machines for the application tiers. Monitoring was configured using Azure Monitor and Oracle Enterprise Manager (OEM). Additionally, Infosys deployed its proprietary AI use cases for SQL generation and intelligent knowledge search on Oracle 23ai using a vector database, which were successfully tested on OD@A

### Infosys Security & Monitoring Posture

Infosys adopted industry standard security and monitoring best practices. Following is the list of security and monitoring postures implemented in PoC.

Security & Monitoring Posture	Tool
Operating system (OS) hardening	Center for Internet Security (CIS) standards
Vulnerability management	Enterprise TruRisk Platform
Malware protection	FireEye
Firewall protection	Palo Alto Networks firewall
Backup protection	Veeam Backup and Replication
Port and network filtering	Virtual machine (VM) firewall
Traffic filtering	Oracle Network security group (NSG)
Data leakage prevention	Symantec Data Loss Prevention (DLP)
Single sign-on (SSO)	HashiCorp Vault
Role-based access control (RBAC)	Microsoft Entra ID
Database encryption	Transparent data encryption (TDE)
Micro segmentation	Guardicore
Performance monitoring	Microsoft Azure Monitor
Application/database monitoring	Oracle Enterprise Manager (OEM)
Cost, performance, and security review	Oracle Cloud Advisor
Security incident detection	Microsoft Sentinel
Software inventory management	Flexera Software Asset Management (SAM)

Figure 6: Infosys security framework components enabled in Pilot

### Performance Benchmark in Pilot

SN#	Program/Report	On-Prem Response time (Min)	On Azure Cloud with OD@A Response Time(Min)	% Performance improvement
1	Gather Stat for All the schema in Oracle EBS Application	80	20	75
2	PO Receipt BO Extract	9.65	6.38	33.89
3	Open Sales Order Report	16.00	10.95	31.56
4	PO EXTRACT	173.36	120.9	30.25
5	Requisition Inbound Interface	2.74	1.92	29.87
6	GPAO Receipt Import	54.68	40.07	26.71
7	AP Invoice Hold Report	12.30	9.20	25.20
8	AP Invoice Interface Import	5.59	4.27	23.61
9	FA Fixed Assets Statement Report	25.87	22.25	13.99
10	Requisition Import	0.21	0.19	9.52
11	PO Print Wrap Program	41.55	40.14	3.39

Figure 7: Performance Benchmark in Pilot

## Conclusion

As a trusted partner in enterprise cloud transformation, Infosys empowers organizations to fully realize the value of Oracle Database@Azure (OD@A) adoption. Through this offering, businesses gain the strategic insights needed to make informed decisions throughout their cloud journey. Additionally, the autonomous database capabilities within OD@A deliver intelligent, self-managing operations that significantly enhance performance while reducing administrative overhead.

With deep expertise in orchestrating complex, large-scale cloud migrations, Infosys ensures seamless transitions across industries—enabling operational resilience, cost optimization, and faster time-to-value. Our tailored services, grounded in industry-specific knowledge and proven best practices, help minimize risk, reduce downtime, and accelerate cloud adoption.

Driven by a commitment to innovation and customer-centric execution, Infosys stands as a catalyst for long-term success in today's dynamic multi-cloud environment. Through OD@A, Infosys helps enterprises navigate their transformation journey with confidence, agility, and strategic clarity.

## About the Authors



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Dambaru has over 20 years of extensive experience in Oracle and Platform technologies involving design, implementation, and upgrades. He has been working extensively in Exadata engineered solutions and Database-as-a-Service (DBaaS) solutions for both Oracle and non-Oracle workloads to various clients.



### Girish Nanawate

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Girish has over 25+ Years of extensive experience in Oracle technologies. He is currently leading Database-as-a-Service COE providing end-to-end transformation solutions in Exadata, Oracle ERP and Multicloud.



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Syed has over 25 Years of extensive experience. He is heading Oracle Practice COE covering services in OCI, DBaaS, Multicloud.

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