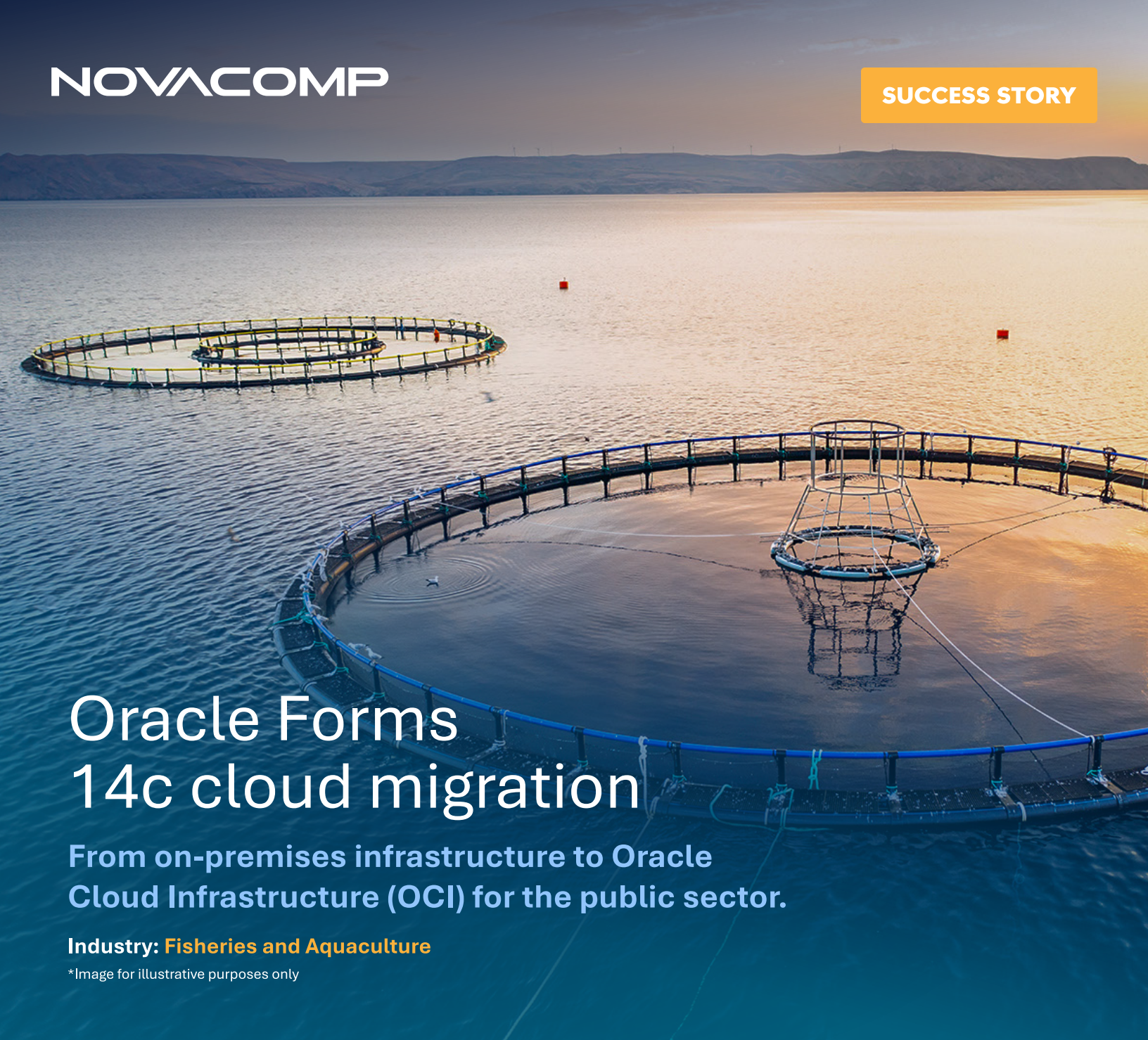




Oracle Forms 14c cloud migration

From on-premises infrastructure to Oracle
Cloud Infrastructure (OCI) for the public sector.

Industry: **Fisheries and Aquaculture**

*Image for illustrative purposes only

Summary

Project at a leading public-sector organization that involved migrating 2 applications (ENTERPRESE and SISPA) from Oracle Forms 14c & Reports 14c on-premises to the Oracle cloud (OCI).

Key challenges

- High maintenance costs and complexity of the on-premises infrastructure.
- Performance issues in the applications.
- Difficulty maintaining high availability, worsened by frequent power outages in the area where the headquarters of the organization.

Approach / Solution

Industry-recommended best practices were followed to migrate the infrastructure from on-premises to the cloud.

- 1) The databases were created using DB objects provided by OCI, making updates, automatic backups, and maintenance easier.
- 2) Instances (virtual machines) were created in OCI for the testing and production environments, with improved scalability: capacity can be increased during periods of higher demand and reduced afterward, since billing is on-demand based on configuration and time used.
- 3) The testing and production environments were installed, including Java JDK, WebLogic, Forms, Reports, and the client's applications.
- 4) Security was configured: all connections are secured through a point-to-point link in OCI connecting the company's network—including its regional branches—with the OCI subnets. For users, the change was practically transparent, requiring only an update to the new server's IP address.

Results

The client increased the reliability of its applications and drastically reduced the time and cost invested in maintaining the on-premises infrastructure.

Technologies used

Cloud:	OCI (Oracle Cloud Infrastructure)
Instances running:	Windows Server 2022
Database:	DB System Oracle 19c, version 19.30
Java:	jdk-17.0.10 for 64-bit Windows
Application server:	Weblogic 14c, version 14.1.2.0.0.
Forms:	Forms 14c, version 14.1.2.0.0.
Reports:	Reports 14c, version 14.1.2.0.0.



Conclusion

The project was completed in record time, without setbacks, and today the applications of the organization maintain 99.999% high availability to date.