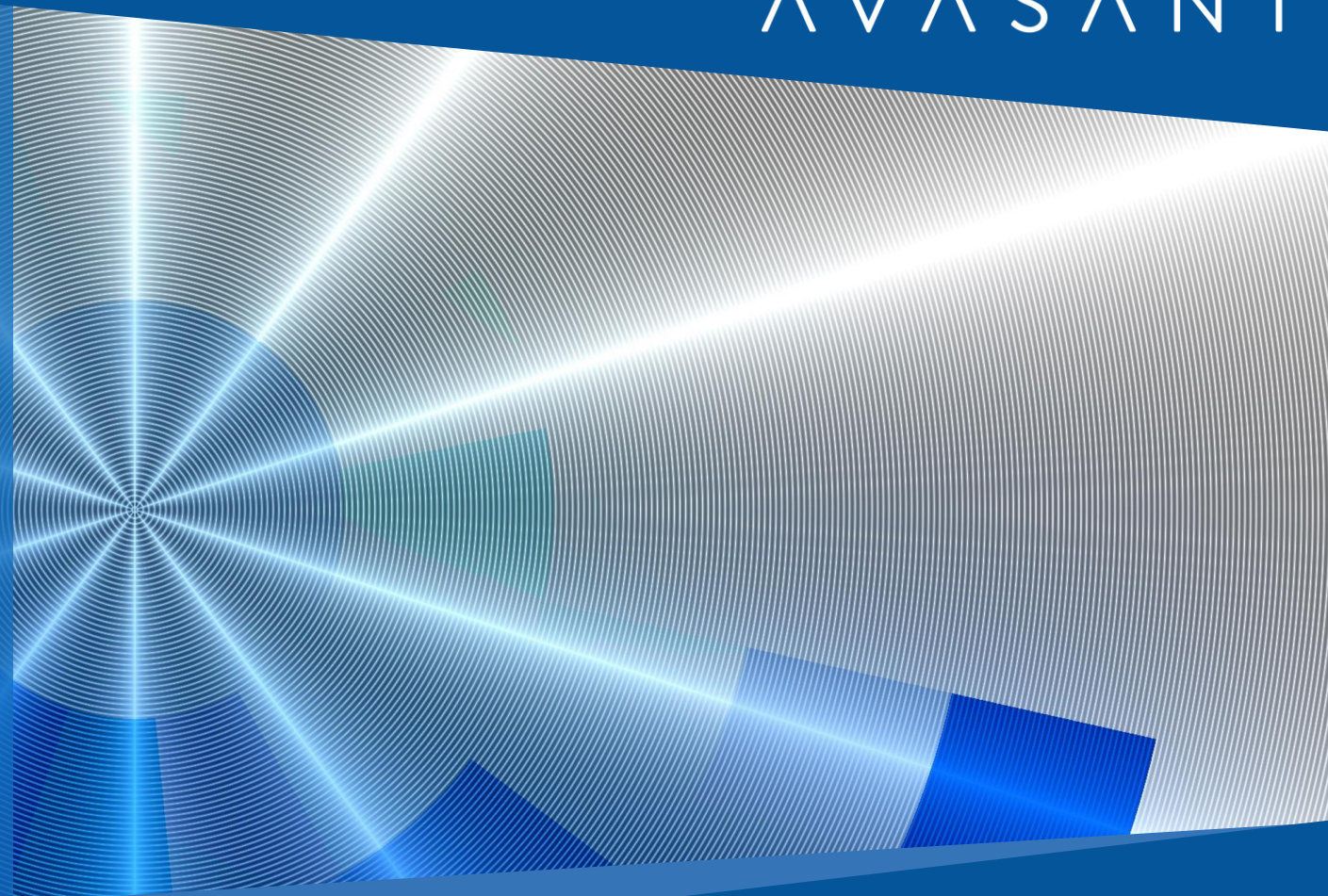


# Cloud Platforms 2024 RadarView™ Excerpt

Integrating generative AI from  
chips to applications

June 2024



# Table of contents

## **About the report (Page 3)**

## **Executive summary (Pages 4-7)**

- Defining cloud platforms
- Avasant recognizes seven top-tier cloud platform providers supporting enterprise IT environments
- Provider comparison

## **Supply-side trends (Pages 8-12)**

- Hyperscalers have integrated generative AI across the entire solution stack, from hardware and middleware to enterprise applications.
- There is a shift from traditional data sovereignty to holistic digital sovereignty capabilities among cloud platform providers.
- Hyperscalers are incorporating chatbots into their existing platforms and applications to improve user productivity.
- Cloud platform providers are significantly investing in training initiatives to expedite AI adoption among enterprises.

## **Service provider profiles (Pages 13-27)**

- Detailed profiles for AWS, DigitalOcean, Google, IBM, Microsoft, Oracle, and OVHcloud.

## **Appendix (Pages 28-31)**

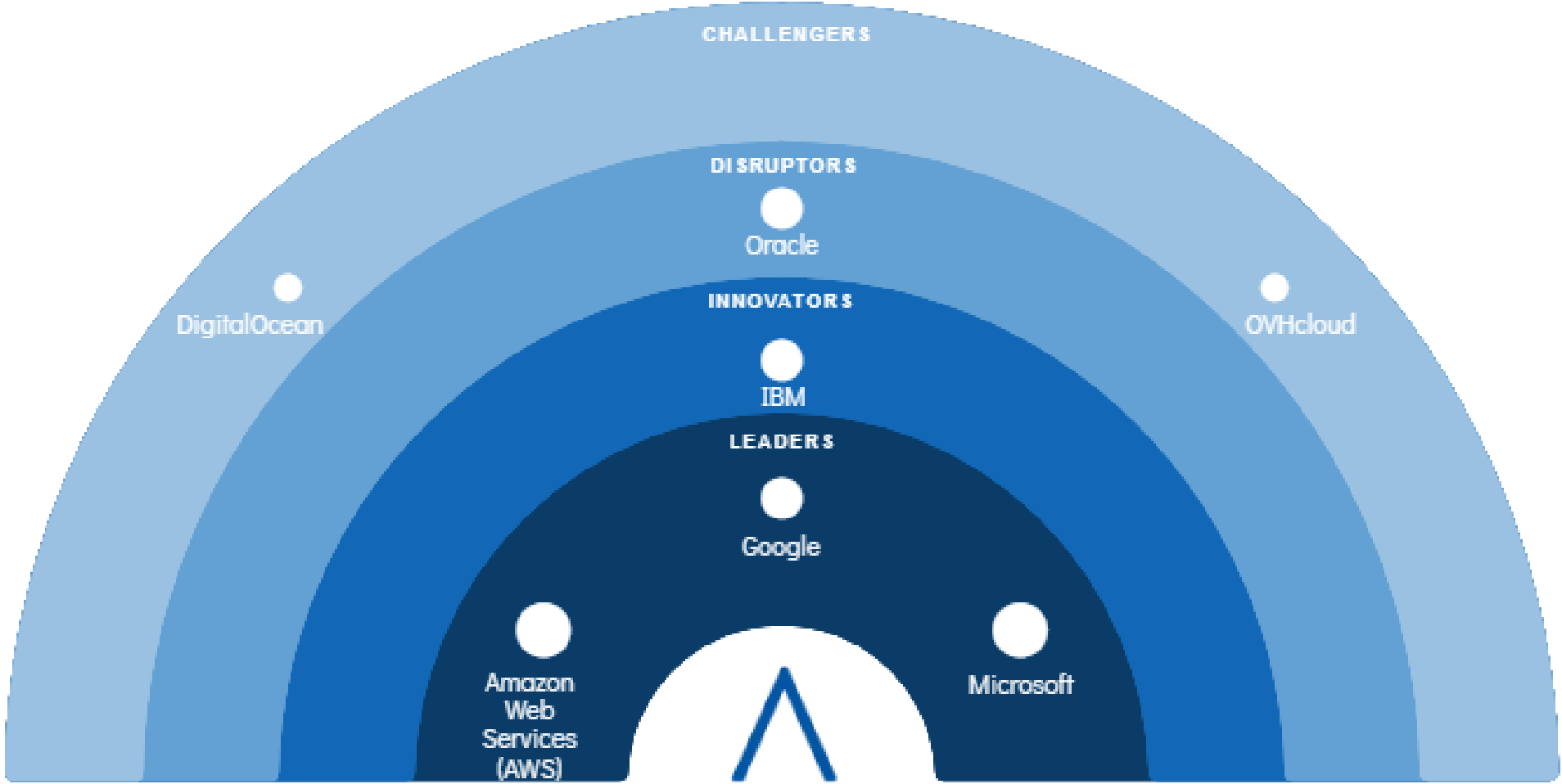
- RadarView assessment
- Research methodology and coverage
- Interpretation of classification

## **Key contacts (Pages 32)**



# Avasant recognizes seven top-tier cloud platform providers supporting enterprise IT environments

Product maturity ○ ○ ○



# Hyperscalers have integrated generative AI across the entire solution stack, from hardware and middleware to enterprise applications



## Enterprise applications

- AWS upgraded its Amazon CodeWhisperer in November 2023 for AI-based code remediation.
- It introduced Amazon Bedrock in September 2023 to build generative AI applications.
- Google launched Gemini for Code Assist in April 2024 to expedite software delivery for developers.
- It upgraded the Vertex AI platform in August 2023 to support the creation of generative AI applications.
- Microsoft unveiled Copilot for Service in December 2023 to enhance the contact center service experience.
- It introduced Copilot for Finance in March 2024 to streamline financial tasks.

## Middleware support

- In November 2023, it upgraded the Amazon SageMaker to develop foundation models.
- It launched Amazon Aurora Limitless Database in November 2023 to scale relational database workloads on the cloud.
- It unveiled the PaLM 2 language model in May 2023 for enhanced multilingual, reasoning, and coding support.
- It launched Vertex AI Codey APIs in June 2023 for code generation and completion.
- It introduced Orca 2 language models in November 2023 to improve reasoning capabilities.
- It unveiled Phi-2 small language models in December 2023 to improve language understanding.

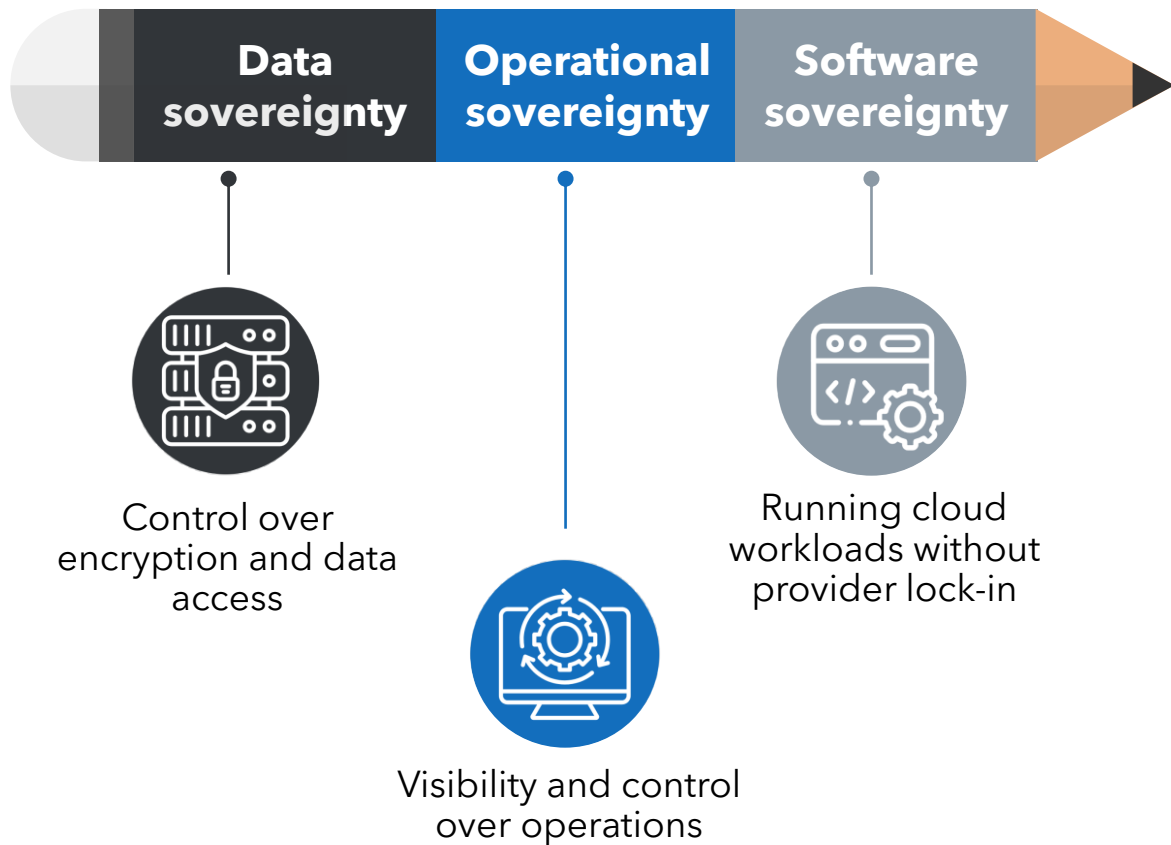
## Hardware innovation

- In November 2023, AWS unveiled the Graviton4 hardware chip to efficiently process cloud workloads.
- It also launched the Trainium2 chip in November 2023 to accelerate the training of foundation models.
- It introduced the Tensor G3 hardware chip in October 2023 for enhanced on-device AI/ML capabilities.
- It unveiled TPU v5p in December 2023 to efficiently manage AI workloads and optimize infrastructure.
- In November 2023, Microsoft launched Azure Maia 100 processor to run AI workloads on the cloud.
- It launched the Cobalt 100 processor in November 2023 to optimize the performance of cloud applications.

Source: Avasant Research

# There is a shift from traditional data sovereignty to holistic digital sovereignty capabilities among cloud platform providers

Digital sovereignty encompasses three elements:



## Provider initiatives



It launched the AWS Digital Sovereignty Pledge to offer customers sovereignty capabilities. It also introduced the AWS European Sovereign Cloud for European public sector organizations.



It introduced the Microsoft Cloud for Sovereignty, which adopts a principled approach to digital sovereignty capabilities, helping organizations meet compliance and security requirements.



It unveiled the Google Cloud Digital Sovereignty Explorer to address the regulatory requirements of European organizations. This solution also supports risk management and legal safeguards.



It developed a full-stack AI platform with NVIDIA and integrated it into Oracle's Enterprise AI to offer control over operations, location, and security and support digital sovereignty requirements.

# AVASANT



Empowering Beyond

GET CONNECTED



[www.avasant.com](http://www.avasant.com)