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Government Cloud Platforms 2021–2022 RadarView Report Excerpt

Compliance requirements driving the move to government clouds

November 2021

RadarView

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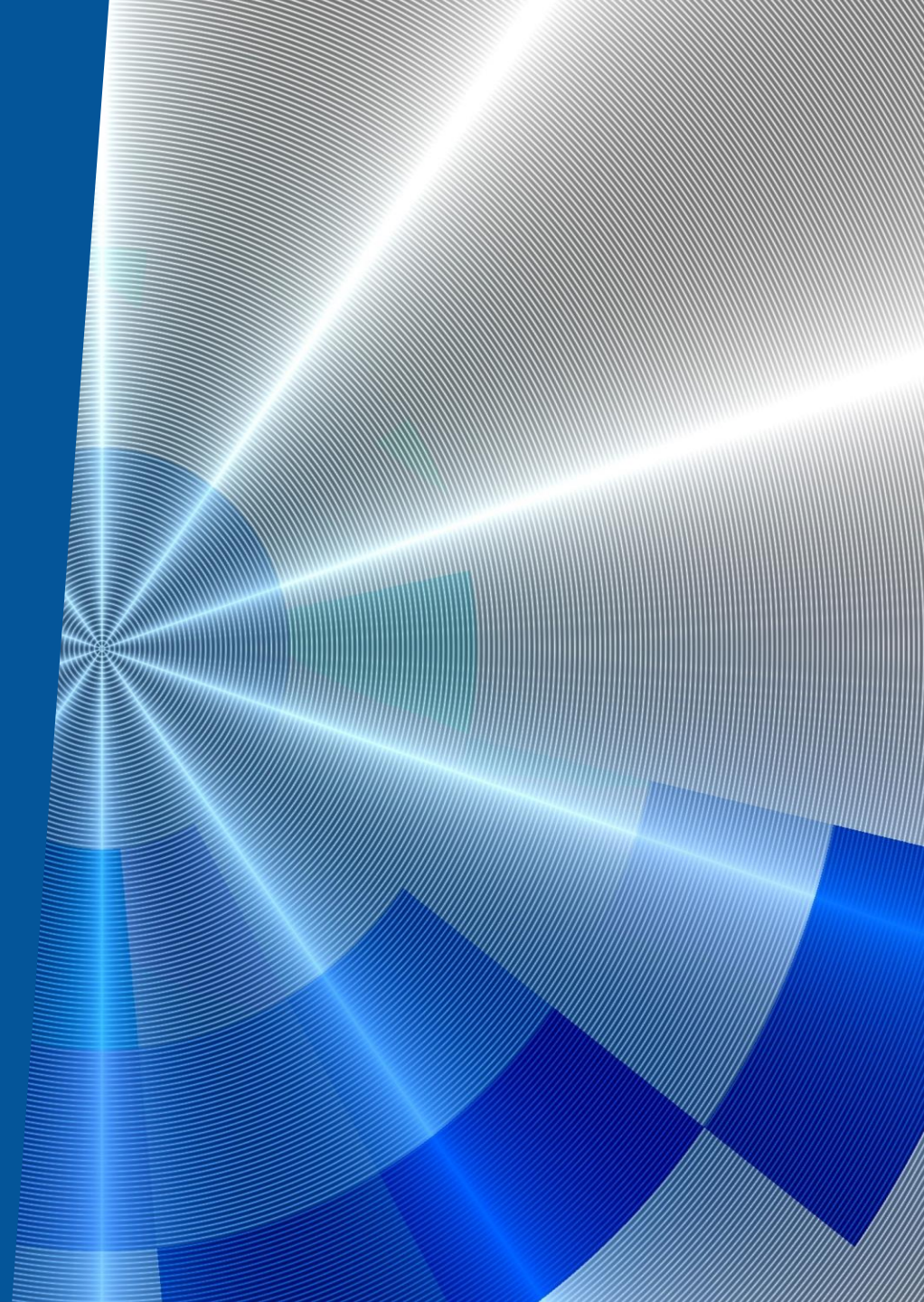

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Executive summary

Key government cloud platform trends shaping the market

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Increasing compliance needs are accelerating the shift to cloud	• The increasing need to protect sensitive workloads from unauthorized access and ensure compliance are driving the shift to a more robust and modern cloud-based IT infrastructure. • State and local governments and enterprises who are serving customers from the government and non-profit space are also adopting the cloud to reduce their IT and licensing costs.
Tailored cloud regions emerging for communities like defense/intelligence	• Sensitive data, such as those used in defense, can be addressed by specialized cloud regions that meet data residency rules. • The Intelligence Community and federal bodies overseeing national security can leverage these isolated resources to deploy their workloads securely and comply with stringent IT regulations.
Convergence with emerging technologies driving change	• Modern governments are working toward improving services by leveraging emerging technologies like 5G networks, blockchain, and edge computing for greater speed, low-latency, and high availability of verifiable data to enable use cases such as congestion monitoring and smart waste management. • Additionally, cloud platform providers are helping government agencies and departments in streamlining collaboration tools.
Government cloud providers expanding their influence	• Government cloud providers are constantly expanding to new regions, enabling governments to make the shift towards cloud without jeopardizing data governance and data sovereignty. • All the major providers have either set up new regions, signed memoranda of understanding (MoU), or introduced certifications relevant to new geographies.

Avasant recognizes five top-tier cloud platform providers supporting government IT environment

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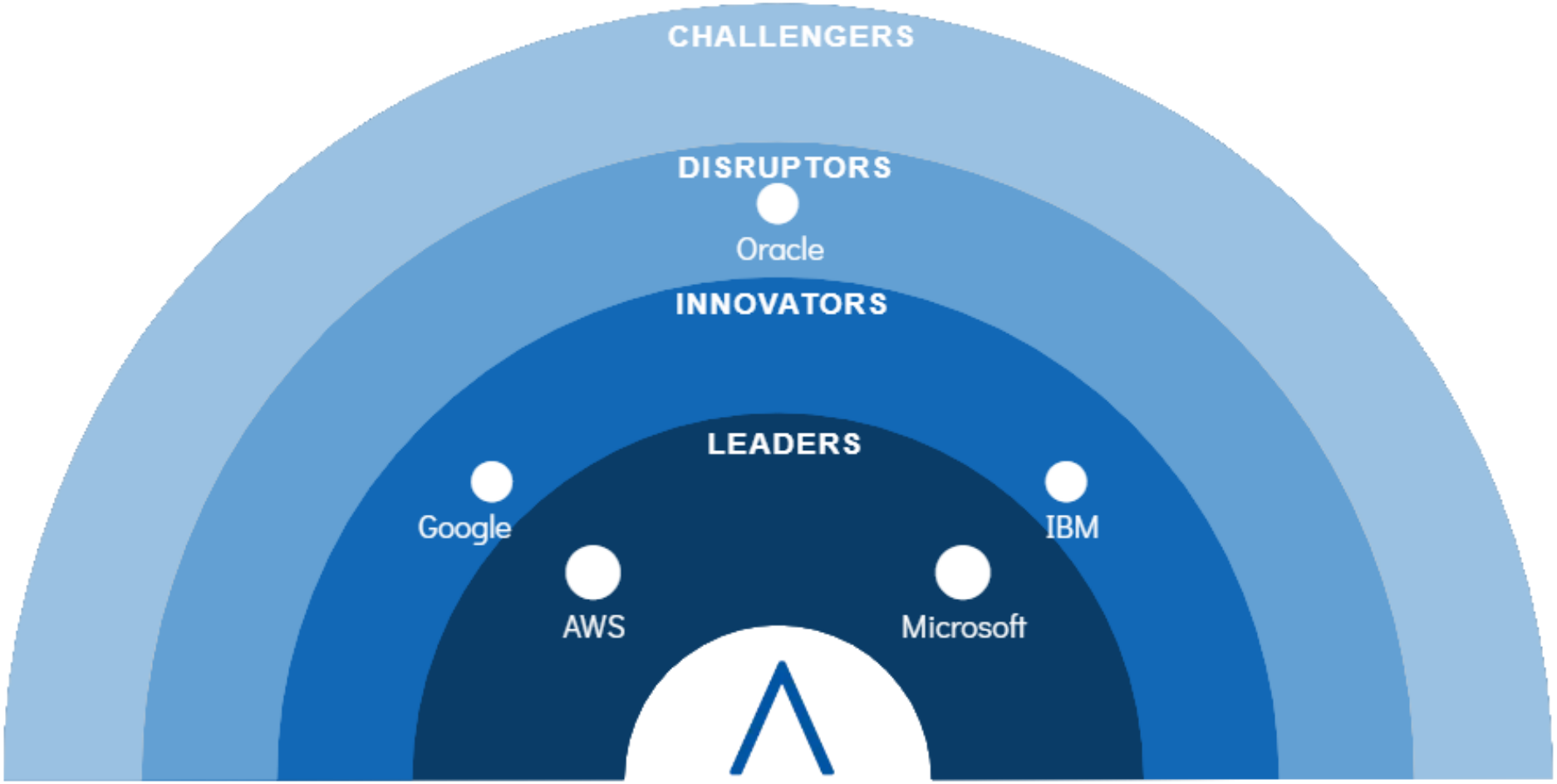
Product maturity



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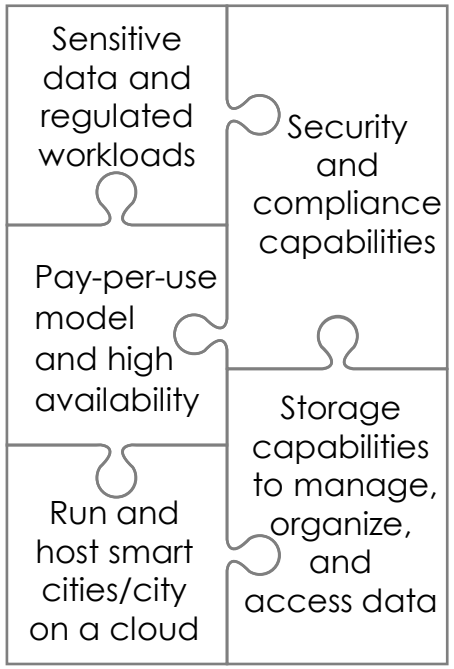
Government agencies are adopting cloud to address data privacy and compliance needs

Top use cases for government cloud adoption



	Key initiatives	Illustrative examples
Govt. Agencies	Data privacy and compliance measures for large scale healthcare-related data generated by public health agencies	The US Centers for Disease Control and Prevention's (CDC) employed AWS GovCloud for managing sensitive data in a secure and compliant environment.
	Enforce sovereign control over national defense missions and workloads concerning national security	MITA, a Maltese government agency, adopted Microsoft Azure for enhancing its detection and protection capabilities, through AI-reinforced prediction and real-time cyberthreat prevention mechanisms.
City Councils	Manage and organize city-council's resources and enable efficient communication through tools for collaboration.	The city of Chattanooga used Google's Government Cloud and Workspace to decrease costs and improve collaboration. Documents, calendars, and forms were now more readily available across form factors and devices. Productivity doubled.
	Securely store, analyse and process sensitive data of economic importance to governments, such as banking-related and financial data	The state of Maine deployed Oracle Analytics Cloud to create an autonomous data warehouse, giving leaders access to real-time data and the ability to create their own reports and dashboards.
	Data capture and processing through IoT and Edge Computing with high scalability and high availability	The city of Seat Pleasant, Maryland, improved security, safety, and resilience by using IBM Intelligent Operations Center (IOC) and IBM Watson Analytics, benefitting from insights to reduce crime, respond to citizen requests, and deliver 24x7 services.

Source: Avasant Research

Cloud providers are betting on blockchain, 5G, and edge computing

	Capabilities	Use cases
Blockchain 	• Helps move away from siloed and inefficient centralized systems • Offers more secure, agile, and cost-effective structures • Ensures that any copy of the data will always be available, verifiable, and trustworthy	• The U.S. Health and Human Services (HHS) department has developed an application called Accelerate for management of contract billing that utilizes blockchain, AI, ML, and process automation.
5G networks 	• Enables agencies to retrieve and send information as quickly and as securely as possible • Provides modern connectivity with greater speed and lower latency to enhance digital service delivery	• The Alba Iulia Smart City in Romania, which has been developed in conjunction with Orange, is leveraging 5G coupled with Internet of Things (IoT) to enable congestion monitoring, parking sensors, and smart waste management.
Edge computing 	• Carries out processing at, or very near to, the source of data • Helps mobile network providers bring processing power close to the network edge and reduce latency	• The US Freight Transportation System employs Verizon's multi-access edge computing (MEC) solution powered by AI and augmented reality (AR) to improve supply chain efficiency and provide end-to-end near real-time logistic controls.

Source: Avasant Research

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