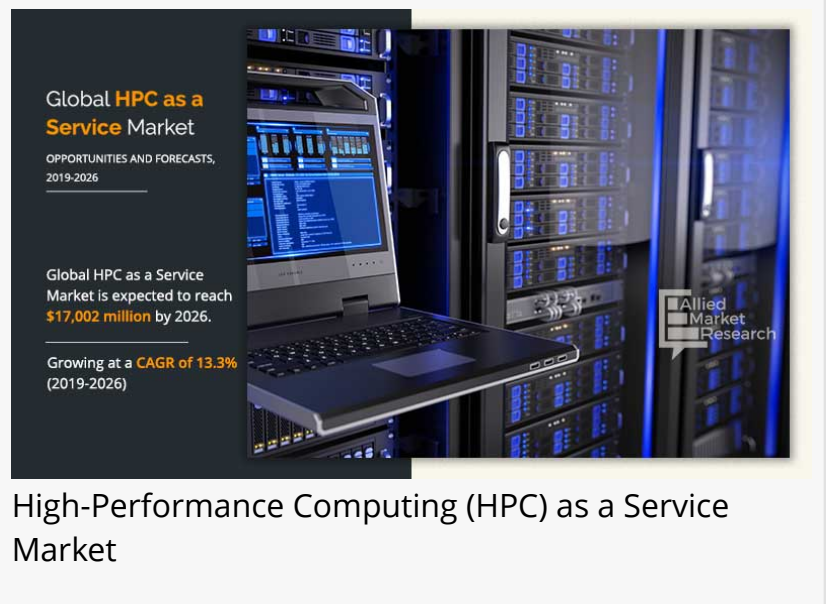


HPC as a Service Market Outlook to 2026 | Company Profiles: Cray Inc., Dell, Google (Alphabet Inc.), Nimbix, Inc

WILMINGTON, DE, UNITED STATES, March 15, 2024 /EINPresswire.com/ -- The global [HPC as a service industry](#) size was valued at \$6.28 billion in 2018, and is projected to reach \$17.00 billion by 2026, registering a CAGR of 13.3% from 2019 to 2026.

According to the HPC as a service market analysis in Asia-Pacific, the market is projected to generate the highest growth rate during the forecast period, owing to increase in IT spending by the various governments in this region. In addition, rise in adoption of machine learning and artificial intelligence (AI) among organizations also fuel the market growth in the Asia-Pacific region.



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High-performance computing (HPC) stands at the forefront of computational power, typically associated with supercomputers capable of executing quadrillions of calculations per second. Its prowess lies in the parallel processing of tasks across thousands of computing nodes, enabling the swift computation of complex solutions.

The advent of High-Performance Computing as a Service (HPCaaS) marks a significant evolution, offering on-demand access to HPC resources via the cloud. This innovative approach democratizes access to high-performance computing capabilities, allowing organizations to harness immense computational power without the need for extensive infrastructure investments.

The proliferation of cutting-edge technologies like 3D imaging, Artificial Intelligence (AI), and the Internet of Things (IoT) necessitates robust computational capabilities. HPCaaS provides a

scalable and flexible solution to meet the demands of these advanced applications. Organizations are grappling with vast volumes of data that require sophisticated processing and analysis. HPCaaS offers real-time data processing capabilities, enabling organizations to extract actionable insights promptly and efficiently.

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The adoption of HPCaaS extends beyond traditional scientific research to various industries. From analyzing stock trends and testing new products to streaming live sports events, HPCaaS unlocks new possibilities for businesses seeking competitive advantages. Governments worldwide are spearheading digitization efforts, driving the adoption of HPCaaS across sectors. These initiatives aim to leverage high-performance computing to enhance efficiency, innovation, and economic growth. The rapid adoption of cloud computing, particularly in emerging economies, presents significant opportunities for HPCaaS providers. The scalability, cost-effectiveness, and accessibility of cloud platforms make HPCaaS more accessible to organizations of all sizes and industries.

The convergence of technological advancements, data-driven demands, business imperatives, government support, and cloud proliferation propels the growth of the High-Performance Computing as a Service market. As organizations increasingly embrace digital transformation and seek innovative solutions to complex challenges, HPCaaS emerges as a catalyst for driving efficiency, innovation, and competitiveness on a global scale.

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By region, North America dominated the global HPC as a service market in 2018 and is expected to remain dominant during the forecast period due to presence of major market players and ongoing developments in high-performance computing technology. Also, rise in demand for engineering and scientific progress boosts the market demand for HPC services in this region. Furthermore, Asia-Pacific is expected to exhibit highest growth rate during the forecast period. The growth of this segment is mainly attributed to increase in adoption of machine learning & artificial intelligence (AI) among organizations, and increase in IT spending by the various governments in this region.

Some of the key HPC as a service market players profiled in the report include Cray Inc., Dell, Google (Alphabet Inc.), Hewlett Packard Enterprise Development LP, International Business Machines Corporation (IBM), Microsoft Corporation, Nimbix, Inc., Penguin Computing, Sabalcore Computing, and The UberCloud.

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