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Cloud High Performance Computing (HPC) Market by Service Type (HPC IAAS, HPC PAAS, Data Organization and Workload Management, Clustering Software and Analytics Tool, Professional Service and Managed Service) - Global Forecast to 2020

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Abstracts

Complex applications management is a major factor driving the growth of cloud HPC market

The cloud High Performance Computing (HPC) market size is estimated to grow from USD 4.37 billion in 2015 to USD 10.83 billion by 2020, at an estimated compound annual growth rate (CAGR) of 19.9% from 2015 to 2020. The cloud HPC market is driven by factors, such as complex applications management, emergence of big data market, and adoption of pay-as-you-go model.

HPC Infrastructure as a Service (IaaS) to gain maximum traction during the forecast period (2015 to 2020)

The high performance computing infrastructure as a service type is estimated to contribute the largest market share duing the forecast period. However, the managed service type is expected to gain traction and grow at the highest CAGR in the next five years. The cloud HPC market is also projected to witness growth in media, entertainment and online gaming, and design and engineering, with government and academia and research end user contributing the largest market share during the forecast period. The hybrid cloud deployment model is expected to grow with the highest growth rate from 2015 to 2020. However, public cloud is expected to contribute the largest market share among the cloud deployment model during the forecast period.

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In the process of determining and verifying the market size for several segments and sub-segments gathered through secondary research, extensive primary interviews were conducted with key people in Tier 1 (35%), Tier 2 (45%) and Tier 3 (20%) companies. The interviews were conducted with various key people such as C-level (35%), Director level (25%) and other executives (40%) operating in the cloud HPC marketplace. The primary interviews were conducted worldwide covering regions such as North America (45%), Europe (20%), Asia Pacific (30%), and RoW (05%).

The faster deployment, increased flexibility, scalability, and high adoption rate in SMBs offers cloud HPC vendors tremendous opportunites in the next five years.

The major cloud HPC companies profiled in the report are as follows:

1. IBM Corporation
2. Microsoft Corporation
3. Google
4. Dell
5. Amazon Web Services
6. Penguin Computing
7. Sabalcore Computing
8. Adaptive Computing
9. Gompute
10. Univa Corporation

The report will help the market leaders/new entrants in the cloud HPC market in the following ways:

1. This report segments the cloud HPC market comprehensively and provides the closest approximations of the revenue numbers for the overall market and the sub-segments across different end users and regions.
2. The report helps stakeholders to understand the pulse of the market and provides them information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to better understand the competitors and gain more insights to better their position in the business. The competitive landscape section includes new product launches, partnerships, agreements, collaborations, and mergers and acquisitions.

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*Details on Business Overview, Products & Services, Key Insights, Recent Developments, SWOT Analysis, MnM View might not be captured in case of unlisted companies.

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