Data center as a service Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented,□By Infrastructure (Servers, Storage, Networking), By Organization Size (SMEs, Large Enterprises), By Vertical (IT & Telecom, BFSI, Healthcare, Retail, Manufacturing, Others), By Region, Competition 2018-2028.

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Report description:

Global Data center as a service Market has valued at USD 71.22 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 22.31% through 2028. The surging demand for training services can be attributed to their ability to help organizations ensure efficiency in operating their data centers and preventing downtime. The ongoing advancements in cloud technology, the increasing complexity of data centers, and the emergence of disruptive trends, such as virtualization, are compelling the need for effective training across IT infrastructures. The deployment of sophisticated technologies that necessitate adequate technical expertise to maximize operational efficiency and prevent errors will also drive business expansion.

Key Market Drivers

The key players in the market are involved in transforming their traditional data centers into modern and advanced data centers using technologies such as cloud, AI, machine learning, and IoT. For instance, Larsen & Toubro and Microsoft India announced a strategic partnership to empower customers with infrastructure and cloud computing services. L&T and Microsoft planned to work together to cater to the large customers base in India by developing roadmaps and architectures to modernize their traditional data centers into technologically advanced data centers to enable organizations to achieve their digital transformation is expected to drive the demand for data centers as a service market growth.

Governments across the world are easing policy regulations.

Governments across the world are easing policy regulations and promoting investments in data center facilities. For instance, the Ministry of Electronics and Information Technology of India announced key strategic decisions framed by the Indian government to support data centers in the country, such as Simplify clearances for setting up data centers in India, pre-provisioned data center parks in states with necessary infrastructure availability, and a defined policy framework from different states and cities, along

with the formulation of Data Centre Incentivization Scheme (DCIS), which is expected to specify the intended beneficiaries, fiscal and non-fiscal incentives, and applicability criteria for the sector.

Machine Learning, AI, IoT Adoption

Data centers offer industries with higher levels of control over their internal data and help in utilizing the stored data in highly effective ways, such as using advanced technologies such as machine learning, AI, IoT, and advanced analytics to improve their capabilities to assist customers. For instance, IBM and Bharti Airtel, a communications solutions provider in India, announced a strategic partnership for deploying Airtel's edge computing platform, which included the deployment of 120 network data centers in 20 cities across the country. The large platform was designed to help large enterprises across different industries, including manufacturing and automotive, leverage innovative solutions that delivered enhanced value to their clients and business operations. Such initiatives are expected to drive the growth of the market over the forecast period.

Key Market Challenges

Energy efficiency requirements and general ignorance & Lack of standardization

The massive quantity of energy used in data centers and the issue of rising temperatures are seriously affecting the market for data centers as a service. The need to manage data center technologies is also a result of the dearth of knowledge about the services. This has an impact on the use of data center services, and it is becoming more important to concentrate on raising knowledge among data center proprietors. Businesses are hesitant to move their data to the cloud due to security and privacy concerns. DCaaS providers need to address these concerns by implementing robust security measures and transparent privacy policies. DCaaS providers need to provide reliable and high-performance network connectivity to their customers. This can be a challenge in some regions, especially in developing countries. Businesses need to comply with various industry and government regulations. DCaaS providers need to help their customers comply with these regulations by providing the necessary tools and services. The cost of DCaaS services can be high, especially for businesses with complex IT needs. DCaaS providers need to offer flexible pricing options and make their services more affordable for businesses of all sizes. There is a lack of standardization in the DCaaS market, which can make it difficult for businesses to compare and choose between different providers.

Key Market Trends

Cloud and Hosting is Expected to Capture Attention in the Data Center Services Market

There are currently billions of Internet-connected devices, and the number is growing. Many generate large amounts of data, which must be recorded, processed, stored, assessed, and retrieved. With the development of IoT and Industry 4.0, manufacturers rely on big data and data analytics to increase their operations' productivity, cost-effectiveness, security, and efficiency.

With fresh data being generated quickly over time, the intelligence from data becomes even harder to capture promptly. New digital landscapes, such as smart cities and intelligent buildings, offer more readily available data.

Moreover, the public cloud is increasing because of lower costs and low maintenance. The data can be accessed at any time and on any device. This is helping small- and medium-sized businesses grow tightly, controlling their costs by paying for the infrastructure based on their needs.

In October 2022, Intel Corp and Alphabet Inc's Google Cloud announced a co-designed chip that can improve the security and efficiency of data centers. The E2000 chip, code-named Mount Evans takes over the work of packaging data for networking from the expensive central processing units(CPU) that do the main computing. It also offers better security between different customers that may be sharing CPUs in the cloud.

For instance, in June 2022, Oracle Cloud Infrastructure (OCI) announced the expansion of its distributed cloud services with specialized regions and previewing the Compute Cloud@Customer. OCI Dedicated Regions provides the entire public cloud to more customers and client data centers with a new, smaller infrastructure footprint and lower pricing. On average, the new OCI Dedicated Region consumes 60-75% less data center space and electricity, with a typical customer paying roughly USD 1 million annually.

Segmental Insights

Infrastructure Insights

The cloud-based Data center as a service accounted for a larger market share and is projected to grow with a high CAGR during the forecast period as organizations digitally transform and adapt to remote working environments. The usage of cloud-based

Data center as a service solutions allows remote fingerprint scanning, facial recognition, and document verification to integrate with the servers. Moreover, companies have started adopting these solutions and are realizing that it helps in cost reduction, increasing operational efficiency, and improving security. For instance, According to Cisco Systems, by 2021, 70% of public and private companies are expected to use cloud-based email solutions . Academic institutions, defense agencies, and government agencies are aggressively adopting new, innovative solutions based on the latest digital technologies, such as artificial intelligence (AI), internet of things (IoT), and machine learning (ML), thereby driving the need for sophisticated, hyper-converged IT infrastructure comprising high-performance computing servers to run complex software-defined solutions and process large volumes of data. The strong emphasis on maintaining a pool of servers to ensure adequate processing power to process large volumes of data bodes well for the growth of the segment over the forecast period.

Vertical Insights

Many businesses are rapidly moving toward adopting electronic mail security solutions due to evolving needs, and the transformation of these solutions has become a growing priority. IT & Telecom to lead as it is teams are constantly under increasing pressure to simplify the Infrastructure and management of security technology, reduce the complexity of their security environments, and strengthen their overall security structure. Organizations are implementing electronic mail security solutions to help protect their digital environments and critical infrastructure from emerging cyber threats. Moreover, the increase in cyber-attacks within the industry has realized organizations adopt electronic mail security solutions. Telecommunications companies are particularly managing their infrastructure needs by establishing their own data centers using a private cloud for both core and non-core networking operations. Telecommunications companies are also partnering with data center providers to expand their business portfolio. For instance, in November 2021, Telenor partnered with Google Cloud to digitally transform its incumbent infrastructure by integrating AI and ML to enhance its technical capabilities are the key factors expected to drive the demand for data center as a service market in the following segment.

The healthcare segment is anticipated to expand at a CAGR of 30.5% during the forecast period. Aggressive development of AI-powered diagnostics tools, telemedicine solutions, and Internet of Medical Things (IoMT), is expected to create robust opportunities for data center solution providers. Hybrid multi-cloud practices are becoming more popular in the healthcare industry vertical to isolate certain workloads from the public domain, especially to ensure adequate data security and privacy protection when it comes to sensitive patient health information.

Regional Insights

The North America region has established itself as the leader in the Global Data center as a service Market with a significant revenue share in 2022. North America is home to many technological innovators. The region has a high demand for technologies like cloud computing and IoT. These technologies need robust data center facilities to handle the increasing complexities. This, in turn, is anticipated to increase the demand for data center services in the region.

Also, the United States is one of the largest-growing economies in the world, and it is likely to boost the growth of public cloud-based data centers. The IT industry dominates the United States market as the largest private sector employer in the country, where data centers are widely used, thereby propelling the market growth. Moreover, the country has also witnessed a rise in its hyper-scale platforms, so providing data center services for the United States' hyper-scale platforms has become necessary. Also, colocation data centers are becoming increasingly popular in the region as businesses realize the majority of benefits of leasing from a colocation building their own data center infrastructure. The complexities in the infrastructure facilities, owing to the integration of technologies like networks and connectivity devices, are increasing rapidly.

In North America, data center facilities are progressively expanding in line with the continued advances in the latest technologies, such as big data and the Internet of Things (IoT). These technologies require advanced facilities to store, process, and manage large volumes of data. Furthermore, the presence of key data center service providers in the region, such as Amazon Web Services, Inc.; Microsoft Corporation; IBM Corporation; and Alphabet Inc., is a major factor driving the market growth in North America.

Key Market Players

IBM Corporation

Microsoft Corporation

Hewlett Packard Enterprise Development LP
Dell Inc.
Alibaba
AT & T
Cloudian
365 Data Centers
Digital Reality
Cyxtera Technologies.
Report Scope:
In this report, the Global Data center as a service Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:
?□Global Data center as a service Market, By Infrastructure:
o□Servers
o□Storage
o□Networking
?□Global Data center as a service Market, By Organization Size:
o□SMEs
o□Large Enterprises
?□Global Data center as a service Market, By Vertical:
o□IT & Telecom
o□BFSI
o□Healthcare
o□Retail
o□Manufacturing
o□Others
?□Global Data center as a service Market, By Installation:
o□On-grid
o□Off-grid
o□Hybrid
?□Global Data center as a service Market, By Region:
o□North America
?□United States
?□Canada
?□Mexico
o□Asia-Pacific
?□China
?□India
?□Japan
?□South Korea
?□Indonesia
o□Europe
?□Germany
?□United Kingdom
?□France
?□Russia
?□Spain
o□South America

?Brazil
?Argentina
oMiddle East & Africa
?Saudi Arabia
?South Africa
?Egypt
?UAE
?Israel
Competitive Landscape
Company Profiles: Detailed analysis of the major companies present in the Global Data center as a service Market.
Available Customizations:
Global Data center as a service Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:
Company Information
?Detailed analysis and profiling of additional market players (up to five).

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