

# **Software Defined Data Center (SDDC) Market Forecasts to 2032 – Global Analysis By Type (Software-Defined Computing (SDC), Automation and Orchestration, Software-Defined Storage (SDS), Software-Defined Networking (SDN), and Other Types), Component, Organization Size, Deployment Mode, End User and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Software Defined Data Center (SDDC) Market is accounted for \$86.52 billion in 2025 and is expected to reach \$350.08 billion by 2032 growing at a CAGR of 22.1% during the forecast period. A Software Defined Data Center (SDDC) is a fully virtualized data center where all infrastructure components compute, storage, networking, and security are delivered as a service through software. It is managed by intelligent, automated software systems that enable greater flexibility, scalability, and efficiency. SDDCs support dynamic workload management, rapid provisioning, and seamless integration with cloud environments.

According to Gartner, public cloud spending to grow 23% in 2021 worldwide, which includes cloud business process services, cloud application infrastructure services, and others.

Market Dynamics:

Driver:

Increased demand for agile and scalable IT infrastructure

Organizations are quickly implementing SDDC solutions to improve scalability and operational flexibility in dynamic IT environments. The shift toward digital transformation has increased the need for data centers that can quickly adapt to changing workloads. SDDC enables automated resource allocation, reducing manual intervention and improving efficiency. Cloud-native applications and DevOps practices further drive demand for agile infrastructure. As a result, enterprises are prioritizing SDDC deployments to stay competitive in fast-evolving markets.

#### Restraint:

##### Security concerns related to full virtualization

The reliance on fully virtualized environments in SDDC introduces potential vulnerabilities, such as hypervisor attacks and unauthorized access. Multi-tenant architectures increase the risk of data breaches if isolation mechanisms fail. Compliance with stringent data protection regulations adds complexity to SDDC security management. Enterprises remain cautious due to the lack of mature security frameworks for virtualized networks and storage. These concerns may slow SDDC adoption in highly regulated industries like finance and healthcare.

#### Opportunity:

##### Rising adoption of cloud computing and hybrid cloud models

The growing preference for hybrid and multi-cloud strategies presents significant growth potential for SDDC solutions. Businesses seek seamless workload portability between on-premises and cloud environments, which SDDC facilitates. Cloud service providers are integrating SDDC technologies to enhance service offerings and customer flexibility. The demand for cost-efficient, scalable infrastructure further accelerates hybrid cloud adoption.

#### Threat:

##### Limited interoperability between multi-vendor platforms

The lack of standardization across SDDC solutions from different vendors creates integration challenges. Enterprises using multiple platforms face compatibility issues, leading to operational inefficiencies. Vendor lock-in risks may deter organizations from fully committing to SDDC deployments. The absence of universal APIs and

management tools complicates cross-platform automation. Resolving these interoperability issues is essential to the broad adoption of SDDC.

### Covid-19 Impact

The pandemic accelerated SDDC adoption as businesses prioritized remote work and cloud-based operations. Supply chain disruptions highlighted the need for resilient, software-driven infrastructure. Post-pandemic, hybrid work models sustained demand for scalable and secure data center solutions. However, initial economic uncertainties delayed some large-scale SDDC investments. Overall, COVID-19 reinforced the value of agile, automated IT infrastructure.

The software segment is expected to be the largest during the forecast period

The software segment is expected to account for the largest market share during the forecast period, due to its critical role in virtualization, orchestration, and automation. Increasing demand for SDN (Software-Defined Networking) and SDS (Software-Defined Storage) solutions drives growth. Enterprises prioritize software investments to optimize resource utilization and reduce hardware dependency. As a result, software remains the cornerstone of SDDC deployments.

The education segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the education segment is predicted to witness the highest growth rate. Universities and schools require scalable infrastructure for online platforms and data-intensive research. Cost-effective virtualized environments enable institutions to modernize IT without heavy capital expenditure. Government initiatives promoting EdTech further accelerate market growth. This positions education as the fastest-growing segment in the SDDC market.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to rapid digitalization and expanding cloud services in countries like China and India. Growing investments in smart cities and 5G infrastructure fuel demand for agile data centers. The region's thriving IT sector and startup ecosystem drive SDDC adoption. Supportive government policies for digital transformation also contribute to market dominance.

### Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, driven by advanced IT infrastructure and early SDDC adoption. Major cloud providers and enterprises in the U.S. and Canada prioritize software-defined solutions. Strong R&D investments in AI and automation further propel market growth. The presence of leading SDDC vendors enhances technological advancements. These dynamics ensure North America remains at the forefront of SDDC innovation.

### Key players in the market

Some of the key players profiled in the Software Defined Data Center (SDDC) Market include VMware, Microsoft, Cisco, NetApp, IBM, Dell Technologies, Oracle, Nutanix, Huawei, Fujitsu, Broadcom, Juniper Networks, Citrix, Lenovo, and Red Hat.

### Key Developments:

In February 2025, Cisco and NVIDIA announced the intent to create a cross-portfolio unified architecture to simplify building AI-ready data center networks. NVIDIA will enable Cisco Silicon One coupled with NVIDIA SuperNICs to become part of the NVIDIA Spectrum-X Ethernet networking platform.

In January 2025, Microsoft Corp. and Pearson the world's lifelong learning company, announced a strategic collaboration to help address one of the top challenges facing organizations globally: skilling for the era of AI. The partnership will focus on providing employers, workers and learners with new AI-powered products and services to help prepare the current and future workforce across industries for the era of work in an AI-driven economy.

### Types Covered:

Software-Defined Computing (SDC)

Automation and Orchestration

Software-Defined Storage (SDS)

Software-Defined Networking (SDN)

Other Types

Components Covered:

Software

Hardware

Services

Organization Sizes Covered:

Large Enterprises

Small and Medium-Sized Enterprises (SMEs)

Deployment Modes Covered:

On-Premises

Cloud-Based

Hybrid

End Users Covered:

IT and Telecom

Banking, Financial Services, and Insurance (BFSI)

Healthcare and Life Sciences

Government and Public Sector

Retail and E-commerce

Manufacturing

Education

Energy and Utilities

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030

- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

#### Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

##### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

##### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

##### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

## Contents

### **1 EXECUTIVE SUMMARY**

### **2 PREFACE**

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
  - 2.4.1 Data Mining
  - 2.4.2 Data Analysis
  - 2.4.3 Data Validation
  - 2.4.4 Research Approach
- 2.5 Research Sources
  - 2.5.1 Primary Research Sources
  - 2.5.2 Secondary Research Sources
  - 2.5.3 Assumptions

### **3 MARKET TREND ANALYSIS**

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 End User Analysis
- 3.7 Emerging Markets
- 3.8 Impact of Covid-19

### **4 PORTERS FIVE FORCE ANALYSIS**

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

### **5 GLOBAL SOFTWARE DEFINED DATA CENTER (SDDC) MARKET, BY TYPE**

- 5.1 Introduction
- 5.2 Software-Defined Computing (SDC)
- 5.3 Automation and Orchestration
- 5.4 Software-Defined Storage (SDS)
- 5.5 Software-Defined Networking (SDN)
- 5.6 Other Types

## **6 GLOBAL SOFTWARE DEFINED DATA CENTER (SDDC) MARKET, BY COMPONENT**

- 6.1 Introduction
- 6.2 Software
- 6.3 Hardware
- 6.4 Services

## **7 GLOBAL SOFTWARE DEFINED DATA CENTER (SDDC) MARKET, BY ORGANIZATION SIZE**

- 7.1 Introduction
- 7.2 Large Enterprises
- 7.3 Small and Medium-Sized Enterprises (SMEs)

## **8 GLOBAL SOFTWARE DEFINED DATA CENTER (SDDC) MARKET, BY DEPLOYMENT MODE**

- 8.1 Introduction
- 8.2 On-Premises
- 8.3 Cloud-Based
- 8.4 Hybrid

## **9 GLOBAL SOFTWARE DEFINED DATA CENTER (SDDC) MARKET, BY END USER**

- 9.1 Introduction
- 9.2 IT and Telecom
- 9.3 Banking, Financial Services, and Insurance (BFSI)
- 9.4 Healthcare and Life Sciences
- 9.5 Government and Public Sector
- 9.6 Retail and E-commerce

- 9.7 Manufacturing
- 9.8 Education
- 9.9 Energy and Utilities
- 9.10 Other End Users

## **10 GLOBAL SOFTWARE DEFINED DATA CENTER (SDDC) MARKET, BY GEOGRAPHY**

- 10.1 Introduction
- 10.2 North America
  - 10.2.1 US
  - 10.2.2 Canada
  - 10.2.3 Mexico
- 10.3 Europe
  - 10.3.1 Germany
  - 10.3.2 UK
  - 10.3.3 Italy
  - 10.3.4 France
  - 10.3.5 Spain
  - 10.3.6 Rest of Europe
- 10.4 Asia Pacific
  - 10.4.1 Japan
  - 10.4.2 China
  - 10.4.3 India
  - 10.4.4 Australia
  - 10.4.5 New Zealand
  - 10.4.6 South Korea
  - 10.4.7 Rest of Asia Pacific
- 10.5 South America
  - 10.5.1 Argentina
  - 10.5.2 Brazil
  - 10.5.3 Chile
  - 10.5.4 Rest of South America
- 10.6 Middle East & Africa
  - 10.6.1 Saudi Arabia
  - 10.6.2 UAE
  - 10.6.3 Qatar
  - 10.6.4 South Africa
  - 10.6.5 Rest of Middle East & Africa

## **11 KEY DEVELOPMENTS**

11.1 Agreements, Partnerships, Collaborations and Joint Ventures

11.2 Acquisitions & Mergers

11.3 New Product Launch

11.4 Expansions

11.5 Other Key Strategies

## **12 COMPANY PROFILING**

12.1 VMware

12.2 Microsoft

12.3 Cisco

12.4 NetApp

12.5 IBM

12.6 Dell Technologies

12.7 Oracle

12.8 Nutanix

12.9 Huawei

12.10 Fujitsu

12.11 Broadcom

12.12 Juniper Networks

12.13 Citrix

12.14 Lenovo

12.15 Red Hat

## List Of Tables

### LIST OF TABLES

Table 1 Global Software Defined Data Center (SDDC) Market Outlook, By Region (2024-2032) (\$MN)

Table 2 Global Software Defined Data Center (SDDC) Market Outlook, By Type (2024-2032) (\$MN)

Table 3 Global Software Defined Data Center (SDDC) Market Outlook, By Software-Defined Computing (SDC) (2024-2032) (\$MN)

Table 4 Global Software Defined Data Center (SDDC) Market Outlook, By Automation and Orchestration (2024-2032) (\$MN)

Table 5 Global Software Defined Data Center (SDDC) Market Outlook, By Software-Defined Storage (SDS) (2024-2032) (\$MN)

Table 6 Global Software Defined Data Center (SDDC) Market Outlook, By Software-Defined Networking (SDN) (2024-2032) (\$MN)

Table 7 Global Software Defined Data Center (SDDC) Market Outlook, By Other Types (2024-2032) (\$MN)

Table 8 Global Software Defined Data Center (SDDC) Market Outlook, By Component (2024-2032) (\$MN)

Table 9 Global Software Defined Data Center (SDDC) Market Outlook, By Software (2024-2032) (\$MN)

Table 10 Global Software Defined Data Center (SDDC) Market Outlook, By Hardware (2024-2032) (\$MN)

Table 11 Global Software Defined Data Center (SDDC) Market Outlook, By Services (2024-2032) (\$MN)

Table 12 Global Software Defined Data Center (SDDC) Market Outlook, By Organization Size (2024-2032) (\$MN)

Table 13 Global Software Defined Data Center (SDDC) Market Outlook, By Large Enterprises (2024-2032) (\$MN)

Table 14 Global Software Defined Data Center (SDDC) Market Outlook, By Small and Medium-Sized Enterprises (SMEs) (2024-2032) (\$MN)

Table 15 Global Software Defined Data Center (SDDC) Market Outlook, By Deployment Mode (2024-2032) (\$MN)

Table 16 Global Software Defined Data Center (SDDC) Market Outlook, By On-Premises (2024-2032) (\$MN)

Table 17 Global Software Defined Data Center (SDDC) Market Outlook, By Cloud-Based (2024-2032) (\$MN)

Table 18 Global Software Defined Data Center (SDDC) Market Outlook, By Hybrid

(2024-2032) (\$MN)

Table 19 Global Software Defined Data Center (SDDC) Market Outlook, By End User (2024-2032) (\$MN)

Table 20 Global Software Defined Data Center (SDDC) Market Outlook, By IT and Telecom (2024-2032) (\$MN)

Table 21 Global Software Defined Data Center (SDDC) Market Outlook, By Banking, Financial Services, and Insurance (BFSI) (2024-2032) (\$MN)

Table 22 Global Software Defined Data Center (SDDC) Market Outlook, By Healthcare and Life Sciences (2024-2032) (\$MN)

Table 23 Global Software Defined Data Center (SDDC) Market Outlook, By Government and Public Sector (2024-2032) (\$MN)

Table 24 Global Software Defined Data Center (SDDC) Market Outlook, By Retail and E-commerce (2024-2032) (\$MN)

Table 25 Global Software Defined Data Center (SDDC) Market Outlook, By Manufacturing (2024-2032) (\$MN)

Table 26 Global Software Defined Data Center (SDDC) Market Outlook, By Education (2024-2032) (\$MN)

Table 27 Global Software Defined Data Center (SDDC) Market Outlook, By Energy and Utilities (2024-2032) (\$MN)

Table 28 Global Software Defined Data Center (SDDC) Market Outlook, By Other End Users (2024-2032) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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