

Virtualization Software - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

Virtualization Software Market Analysis

The Virtualization Software Market size is estimated at USD 94.82 billion in 2025, and is expected to reach USD 218.76 billion by 2030, at a CAGR of 18.20% during the forecast period (2025-2030). A decisive shift toward hybrid infrastructure, higher cloud spending, and the spread of AI-optimized workloads all contribute to the robust outlook. Broadcom's integration of VMware has altered vendor economics by widening license fees, prompting enterprises to diversify suppliers and accelerate trials of open-source or cloud-native hypervisors. Edge computing roll-outs, tighter industry compliance mandates, and a permanent hybrid-work culture are broadening virtualization use cases across datacenters, branch sites, and mobile endpoints. North American buyers are driving optimization initiatives, while Asia-Pacific organizations are scaling first-time deployments on multi-cloud foundations. Heightened price sensitivity and evolving security requirements are encouraging automated orchestration tools, AI-driven resource allocation, and subscription-based delivery models, elements that collectively underpin long-term growth in the virtualization software market.

Global Virtualization Software Market Trends and Insights

Cost-reduction from Server Consolidation

Server consolidation remains an enduring financial catalyst because virtual machines let enterprises replace racks of single-purpose hardware with fewer highly utilized nodes. Government programmes that closed older data centers report

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consolidation ratios above 10:1, lowering energy bills and refresh budgets. Heightened hardware costs and supply-chain lead-time concerns further elevate the importance of sweating existing assets before procuring new servers. Financial institutions cite smaller physical footprints and faster recovery objectives as added advantages. Collectively, these factors keep cost-saving imperatives central to the virtualization software market trajectory.

Cloud-first Enterprise IT Strategies

Cloud transformation now centers on sophisticated hybrid and multi-cloud blueprints that rest on virtualization as the abstraction layer. Microsoft's cloud revenue grew 20-22% year over year to USD 42.4 billion in 2025, evidence that consumption-based models continue to scale. Asian enterprises are especially progressive; 92% of Chinese and 91% of Indian executives say their organizations run workloads in the cloud. As AI workloads mature, demand rises for hypervisors that can flex compute pools quickly and predictively. Subscription licensing and API-driven automation are thus integral to the future virtualization software market.

Deployment and Lifecycle-management Complexity

Hybrid architectures multiply toolsets and policy domains, making day-two operations a challenge for teams that lack deep virtualization expertise. Government agencies cite budget limits and culture change as hurdles when modernizing entrenched legacy stacks. Smaller businesses often outsource management but encounter new dependencies and contractual overhead. Consistency across disparate clouds, hypervisors, and security baselines thus restrains a portion of the virtualization software market until automation matures further.

Other drivers and restraints analyzed in the detailed report include:

Remote-work and Edge-compute Proliferation / Vendor Diversification Away from vSphere / Escalating Hypervisor Licence Costs /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

In 2024, PC and server technology accounted for 67.4% of the virtualization software market size, yet growth momentum has shifted toward mobile and endpoint use cases, advancing at 22.1% CAGR to 2030. The enduring lead of traditional server hypervisors reflects deep enterprise install bases; however, hybrid work patterns now demand secure remote desktops accessed from unmanaged devices. Healthcare systems and financial firms deploy virtual desktops to segment sensitive applications, ensuring compliance with HIPAA and PCI while enabling broad workforce reach. Japan's Azure Virtual Desktop roll-out illustrates the scale possible when cybersecurity frameworks and endpoint virtualization converge.

Market preference is shifting toward platforms that combine zero-trust security models with AI-assisted session optimization. Vendors that integrate user-behaviour analytics and dynamic policy enforcement can differentiate in the virtualization software market. Enterprises also weigh device-agnostic clients, lower bandwidth codecs, and simplified licensing as purchase criteria. The convergence of endpoint virtualization with identity services and secure access service edge (SASE) offerings presents further growth levers over the forecast horizon.

Server and compute workloads represented 46.6% of the virtualization software market share in 2024, but network and software-defined networking virtualization is on track for a 21.2% CAGR to 2030. Organizations implementing 5G private networks and edge workloads require programmable network overlays that adjust to latency-sensitive applications. Broadcom's VeloSky product bundles fiber, cellular, and satellite links via virtualized infrastructure, underscoring where innovation is heading.

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Enterprises in Asia-Pacific increasingly bypass legacy routers to adopt software-defined wide area networks within multi-cloud strategies. The intersection of AI-assisted traffic steering and network-function virtualization accelerates adoption because it reduces manual configuration burdens. Storage and application virtualization remain important for legacy modernization, yet budget allocation is shifting to network layers that unlock cloud agility.

Virtualization Software Market is Segmented by Platform (PC/Server Virtualisation and Mobile/Endpoint Virtualisation), Virtualisation Category (Application Virtualisation, Network/SD-Network Virtualisation, and More), Deployment Model (On-Premise, Cloud/SaaS-hosted, and Hybrid), Organization Size (Large Enterprises and Small and Medium Enterprises), End-User Industry (IT and Telecommunications, BFSI, and More), and Geography.

Geography Analysis

North America dominated the virtualization software market with 34.6% revenue share in 2024, reflecting early adoption, a dense ecosystem of hyperscale providers, and a large installed VMware base. Multiple federal consolidation mandates pushed agencies toward 90% application virtualization, showcasing public-sector leadership. Growth is moderating as enterprises focus on optimization over net-new expansion, though Broadcom's pricing strategy is triggering evaluations of Microsoft Hyper-V and Nutanix AHV alternatives.

Asia-Pacific is projected to add the most incremental dollars, rising at a 21.4% CAGR to 2030. China finances domestic cloud stacks to enhance technological self-reliance, while India's government digitization and private-sector modernization initiatives drive broad virtualization uptake. Japanese organizations lead vendor diversification; Virtuozzo's distribution pact with AXLBIT targets migrating one-fifth of local VMware users within six months. Edge computing deployments tied to 5G roll-outs in South Korea and Australia create additional demand for lightweight hypervisors capable of operating in space-constrained environments.

Europe records steady expansion because GDPR and emerging data-sovereignty legislation make hybrid and on-premise deployments attractive. Germany and the United Kingdom implement sovereign cloud blueprints that keep sensitive datasets within national borders. Fifty VMware Cloud Service Provider partners already deliver sovereign services leveraging VMware Cloud Foundation. France intensifies government cloud mandates, while Eastern European markets explore domestic alternatives to mitigate geopolitical risk. The region's moderate but resilient growth profile underscores how policy requirements can stimulate virtual infrastructure spending.

Latin America and the Middle East, and Africa remain smaller revenue contributors but present emerging opportunities where mobile-first economies adopt cloud-native virtualization to bypass legacy hardware constraints. Telcos rolling out 5G stand-alone cores rely on virtual network functions to shorten service-introduction cycles. Public-sector digital-inclusion projects across Gulf Cooperation Council states likewise invest in private-cloud platforms backed by virtualization to comply with data-residency laws. These dynamics collectively diversify geographic revenue streams inside the virtualization software market.

List of Companies Covered in this Report:

VMware Inc. / Microsoft Corporation / Citrix Systems Inc. / Red Hat Inc. (IBM Corporation) / Nutanix Inc. / Oracle Corp. / Amazon Web Services Inc. / Google LLC (Google Cloud) / Huawei Technologies Co. Ltd. / Parallels International GmbH / NComputing Co. Ltd. / Lynx Software Technologies / TenAsys Corporation / Proxmox Server Solutions GmbH / SUSE LLC (Harvester) / Virtuozzo International GmbH / Xen Project / KVM (Open-source) / QEMU Project / Scale Computing Inc. / Dell Technologies Inc. / Cisco Systems Inc. / HPE (Hyperconverged SimpliVity) / IBM PowerVM (IBM Corporation) / TuxCare (KernelCare) /

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 The market estimate (ME) sheet in Excel format /
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Table of Contents:

1 INTRODUCTION

1.1 Study Assumptions and Market Definition

1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET LANDSCAPE

4.1 Market Overview

4.2 Market Drivers

4.2.1 Cost-reduction from server consolidation

4.2.2 Cloud-first enterprise IT strategies

4.2.3 Remote-work and edge-compute proliferation

4.2.4 Vendor-diversification away from vSphere

4.2.5 AI-optimised workload placement

4.3 Market Restraints

4.3.1 Deployment and lifecycle-management complexity

4.3.2 Escalating hypervisor licence costs

4.3.3 Rising VM-specific security attack-surface

4.4 Industry Value Chain Analysis

4.5 Regulatory Landscape

4.6 Technological Outlook

4.7 Industry Attractiveness - Porter's Five Forces Analysis

4.7.1 Threat of New Entrants

4.7.2 Bargaining Power of Suppliers

4.7.3 Bargaining Power of Buyers

4.7.4 Threat of Substitutes

4.7.5 Intensity of Competitive Rivalry

4.8 Impact of Macroeconomic Factors on the Market

5 MARKET SIZE AND GROWTH FORECASTS (VALUES)

5.1 By Platform

5.1.1 PC/Server Virtualisation

5.1.2 Mobile/Endpoint Virtualisation

5.2 By Virtualisation Category

5.2.1 Application Virtualisation

5.2.2 Network/SD-Network Virtualisation

5.2.3 Server/Compute Virtualisation

5.2.4 Storage Virtualisation

5.3 By Deployment Model

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- 5.3.1 On-premise
- 5.3.2 Cloud/SaaS-hosted
- 5.3.3 Hybrid
- 5.4 By Organization Size
 - 5.4.1 Large Enterprises
 - 5.4.2 Small and Medium Enterprises (SMEs)
- 5.5 By End-user Industry
 - 5.5.1 IT and Telecommunications
 - 5.5.2 BFSI
 - 5.5.3 Healthcare and Life Sciences
 - 5.5.4 Manufacturing
 - 5.5.5 Government and Defence
 - 5.5.6 Media and Entertainment
 - 5.5.7 Other End-user Industries
- 5.6 By Geography
 - 5.6.1 North America
 - 5.6.1.1 United States
 - 5.6.1.2 Canada
 - 5.6.1.3 Mexico
 - 5.6.2 South America
 - 5.6.2.1 Brazil
 - 5.6.2.2 Argentina
 - 5.6.2.3 Chile
 - 5.6.2.4 Rest of South America
 - 5.6.3 Europe
 - 5.6.3.1 Germany
 - 5.6.3.2 United Kingdom
 - 5.6.3.3 France
 - 5.6.3.4 Italy
 - 5.6.3.5 Spain
 - 5.6.3.6 Russia
 - 5.6.3.7 Rest of Europe
 - 5.6.4 Asia-Pacific
 - 5.6.4.1 China
 - 5.6.4.2 India
 - 5.6.4.3 Japan
 - 5.6.4.4 South Korea
 - 5.6.4.5 Singapore
 - 5.6.4.6 Malaysia
 - 5.6.4.7 Australia
 - 5.6.4.8 Rest of Asia-Pacific
 - 5.6.5 Middle East and Africa
 - 5.6.5.1 Middle East
 - 5.6.5.1.1 United Arab Emirates
 - 5.6.5.1.2 Saudi Arabia
 - 5.6.5.1.3 Turkey
 - 5.6.5.1.4 Rest of Middle East

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- 5.6.5.2 Africa
 - 5.6.5.2.1 South Africa
 - 5.6.5.2.2 Nigeria
 - 5.6.5.2.3 Egypt
 - 5.6.5.2.4 Rest of Africa

6 COMPETITIVE LANDSCAPE

6.1 Market Concentration

6.2 Strategic Moves

6.3 Market Share Analysis

6.4 Company Profiles (includes Global level Overview, Market level overview, Core Segments, Financials as available, Strategic Information, Market Rank/Share for key companies, Products and Services, and Recent Developments)

6.4.1 VMware Inc.

6.4.2 Microsoft Corporation

6.4.3 Citrix Systems Inc.

6.4.4 Red Hat Inc. (IBM Corporation)

6.4.5 Nutanix Inc.

6.4.6 Oracle Corp.

6.4.7 Amazon Web Services Inc.

6.4.8 Google LLC (Google Cloud)

6.4.9 Huawei Technologies Co. Ltd.

6.4.10 Parallels International GmbH

6.4.11 NComputing Co. Ltd.

6.4.12 Lynx Software Technologies

6.4.13 TenAsys Corporation

6.4.14 Proxmox Server Solutions GmbH

6.4.15 SUSE LLC (Harvester)

6.4.16 Virtuozzo International GmbH

6.4.17 Xen Project

6.4.18 KVM (Open-source)

6.4.19 QEMU Project

6.4.20 Scale Computing Inc.

6.4.21 Dell Technologies Inc.

6.4.22 Cisco Systems Inc.

6.4.23 HPE (Hyperconverged SimpliVity)

6.4.24 IBM PowerVM (IBM Corporation)

6.4.25 TuxCare (KernelCare)

7 MARKET OPPORTUNITIES AND FUTURE TRENDS

7.1 White-Space and Unmet-Need Assessment

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