Migration of Services to the Cloud Environment: Challenges and Best Practices

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Abstract

Cloud computing is coming-up as a new generation business paradigm with significant potential to increase the agility and lower the costs. Business people are looking for better ways to migrate their existing applications to a cloud-based infrastructure to enjoy the immense cloud potential. However, the security risks, lack of mature technology and standards, and other concerns prevent widespread enterprise adoption of external clouds. Companies are developing a cloud computing strategy based on growing the cloud from inside-out. Still, many applications are not suitable for hosting at external clouds. Hence, migration of services to the external cloud becomes a major issue whenever there is a paradigm shift. There are many key Challenges of Enterprise Cloud Computing like Data Governance, Manageability, Monitoring, Reliability, Availability and Virtualization. Present work discusses the major challenges towards the migration of services in cloud environment, considering both the public as well hybrid clouds. In order to signify the challenges, both technical and business issues have been considered. The best practices by IT giants have also been highlighted, considering the present day business environment.
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References


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Index Terms

Computer Science
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