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Cloud deployment models: Standard and framework

[Cloud Computing's Transformative Power in Computing Environments](#) • Book

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Abstract

This chapter provides a comprehensive overview of cloud deployment models, including public, private, hybrid, and community clouds, and their profound impact on modern IT infrastructure and the development of inclusive IoT smart systems. The selection of an appropriate cloud model significantly influences critical aspects such as data sovereignty, scalability, resource utilization, and crucially, the accessibility features for individuals with disabilities. We examine the distinct characteristics, advantages, and disadvantages of each model, highlighting how they cater to diverse organizational needs, from cost optimization and rapid provisioning in public clouds to enhanced security and control in private environments. The discussion also addresses the complexities and benefits of hybrid and community cloud approaches, emphasizing their role in enabling flexible, compliant, and collaborative computing solutions. Understanding these models is essential for

making informed strategic decisions that foster innovation and ensure equitable access to technology. © 2026 by IGI Global Scientific Publishing. All rights reserved.

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Engineering controlled terms

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Engineering uncontrolled terms

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