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Security in the cloud computing environment. About the Book Author. Programming. Cloud Computing. Navigating the Cloud Computing Technical Interface. Navigating the Cloud Computing Technical Interface. In this article. By Judith S. Hurwitz, Robin Bloor, Marcia Kaufman, Fern Halper. A cloud's Application Programming Interface (API) is the software interface that lets your company's infrastructure or applications plug in to the cloud. This is perhaps the most important place for standardization. Many vendors in the cloud space would like to claim overall leadership and control over the interfaces. Therefore, many different vendors are developing their own interfaces. This, in turn, means that customers are likely to be forced to support multiple APIs. Cloud service providers can leverage the proposed model to perform capacity planning and bottleneck analysis when they accommodate adaptive applications. View. Show abstract. Other examples that involve adaptations in both computing and networking levels are seen in situations where a running application is required to be moved from one data center to another. For instance in [10] a Morphable Applications Platform (MAP) has been proposed to support the deployment and management of applications on a multi-cloud environment. It allows developers to run queries on data organized based on their semantic understanding of the cloud. Executive Summary As computing, storage, and collaboration transition to the cloud, IT professionals are finding it difficult to navigate with the confidence that their assets are secure. 97% of organizations worldwide are using some type of cloud service, and are concurrently working through issues related to visibility and control. Some executives are moving slowly due to a lack of visibility, while others move boldly ahead, knowing they face the risk of security incidents along the way. It is better to be able to see everything in the cloud, than to attempt to control an incomplete portion of it. Visibility-driven organizations are using a full range of cloud services to find the best fit for each business need. Easton, J., & Parmar, R. (2017). Navigating Your Way to the Hybrid Cloud. In Chen, J., Zhang, Y., & Gottschalk, R. (Ed.), Handbook of Research on End-to-End Cloud Computing Architecture Design (pp. 15-38). IGI Global. <http://doi:10.4018/978-1-5225-0759-8.ch002>. Chicago. Easton, John, and Rashik Parmar. "Navigating Your Way to the Hybrid Cloud." In Handbook of Research on End-to-End Cloud Computing Architecture Design. edited by Jianwen Wendy Chen , Yan Zhang , and Ron Gottschalk, 15-38. Hershey, PA: IGI Global, 2017. <http://doi:10.4018/978-1-5225-0759-8.ch002>. Cloud computing provides a framework which can support many new possibilities for teaching and learning. Cloud-based services and applications are increasingly used by educational establishments to... Cloud-based services and applications are increasingly used by educational establishments to support many aspects of general and educational activity. There is also increasing emphasis on independent learning and open resources. The first part of this paper reviews current published work relating to education and the cloud. One noticeable aspect is that while there is a good deal written about infrastructure, technology and applications there is currently very little on pedagogy.