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Cloud computing has emerged as a new paradigm for hosting and delivering computing resources over the Internet. This research proposed a cross-cloud communication framework (C3F) for enabling communication among clouds with minimal management burden. Further, it

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enabled the borrowing and lending of resources among clouds whenever required to fulfil the client requests. It also facilitated to share the information of attacks and intruding entities to cater with same attacks on different clouds. The framework was deployed using web-based prototype

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development to test and validate the cross-cloud communication. The prototype was developed using open source technologies. Moreover, algorithms were developed using low level description technique for the processes of resource borrowing and lending and, sharing of attacks

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information. The algorithms were analyzed to test their asymptotic running time complexity, and programmed in accordance with prototype of the study for testing and validation. The results showed high success rate of 94.4% for sharing of resources among clouds with mean

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allocation time of 12 microseconds. It was observed that 94.4% of the time clients' requests were fulfilled successfully after borrowing the resources from cloud network. An average of 100% results were collected for protecting multiple clouds from same attack by sharing the

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attacks and intruders information among clouds in different situations. It is therefore concluded that cross-cloud communication framework can benefit for sharing of resources and attacks information among clouds for efficient resource management and allocation and, protection against same attacks

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Description Google Cloud Platform (GCP) is one of the leading cloud service suites and offers solutions for storage, analytics, big data, machine learning, and application development. It

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features an array of services that can help organizations to get the best out of their infrastructure. This comprehensive guide covers a variety of topics specific to Google's Professional Cloud

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server infrastructure, including Linux and Windows Servers, is assumed. Knowledge of network and storage will also be helpful.

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challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we have an overwhelming

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variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right choices for your application? How do you make sense of

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architectures

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can be selected. The cloud computing patterns offer a unique blend of academic knowledge and practical experience due to the mix of authors. Academic knowledge is brought in by Christoph Fehling and Professor Dr. Frank Leymann who work on cloud research at the University of Stuttgart.

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Architecture at Daimler AG, and Peter Arbitter, the former head of T Systems' cloud architecture and IT portfolio team and now working for Microsoft. Voices on Cloud Computing Patterns Cloud computing is especially beneficial for large companies such as Daimler AG. Prerequisite is a thorough analysis of its

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Computing Patterns have profoundly impacted our corporate IT strategy regarding the adoption of cloud computing. They help our architects, project managers and developers in the refinement of architectural guidelines and communicate requirements to our integration partners and software

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With these opportunities come a number of challenges associated

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with handling, analyzing, and storing large data sets. One solution to this challenge is cloud computing, which supports a massive storage and computation facility in order to accommodate big data processing. Managing and

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Processing Big Data in Cloud Computing explores the challenges of supporting big data processing and cloud-based platforms as a proposed solution. Emphasizing a number of crucial topics such as data analytics, wireless networks,

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challenges for cloud data protection from both software and hardware aspects. The text provides readers with an overview of cloud computing, beginning with historical perspectives on mainframe computers and early networking

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allowing for the delivery of computing and storage capacity to a diverse community of end-recipients. However, before you can decide on a cloud model, you need to determine what the ideal cloud service model is

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for your business. Helping you cut through all the haze, Architecting the Cloud is vendor neutral and guides you in making one of the most critical technology decisions that you will face: selecting the right cloud service

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model(s) based on a combination of both business and technology requirements. Guides corporations through key cloud design considerations Discusses the pros and cons of each cloud service model Highlights

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major design considerations in areas such as security, data privacy, logging, data storage, SLA monitoring, and more Clearly defines the services cloud providers offer for each service model and the cloud services IT must provide

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Arming you with the information you need to choose the right cloud service provider, Architecting the Cloud is a comprehensive guide covering everything you need to be aware of in selecting the right cloud

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genuine inflection point, a moment at which the way of doing things fundamentally changes due to the introduction of new technologies. The rise of cloud computing is just such an inflection point. Cloud

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computing is the next stage of the Internet computing model, one in which organizations will consume services, not technologies. These services will be ready to run, available outside the office walls, and be paid for

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on the basis of usage, just like water or electricity. As the cloud and services model matures, not only will businesses be able to solve old problems more inexpensively and rapidly, they will also be able to address new

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challenges that were previously out of reach. Cloud computing promises a more flexible “services” model for IT systems that puts the business unit or end user at the center of the process. In this way, both the IT

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organization and the business itself become more agile. At the same time, cloud computing promises to reduce the delivered cost of IT through a greater degree of resource utilization, automation, and self service.

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This will not happen overnight. It will not be next year, nor even within a year or two. But as time passes, more and more companies will find themselves in a position to be able to source services wherever they like: inside the

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organization or from any provider, whether it be Google, IBM, HP, EMC, Cisco, Microsoft, Amazon, T-Systems or any other cloud computing vendor. This book is a comprehensive introduction to cloud computing and its

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diversity of virtualization and cloud-related issues. Further to the development of this book, the development team that is responsible for the content of this book, has developed a certification program on Cloud computing,

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the Cloud Certification Program. This vendor-neutral Cloud Certification Program provides professionals with the opportunity to obtain globally recognized credentials in cloud computing. The CompTIA

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various software tools, pioneering technologies, as well as their unique contributions largely go unused due to the lack of information provided on their special characteristics. Novel Practices and Trends in Grid and

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become available to everyone with a credit card. This is tough stuff for enterprises that have been, and still are, very successful, but are built around traditional technology and organizational structures. "Turning the tanker", as the need to transform is often

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described, has become a board room-level topic in many traditional enterprises. Not as easily done as said. Chief IT Architects and CTOs play a key role in such a digital transformation endeavor. They combine the technical, communication, and organizational skill

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to understand how a tech stack refresh can actually benefit the business, what "being agile" and "DevOps" really mean, and what technology infrastructure is needed to assure quality while moving faster. Their job is not an easy one, though: they must maneuver in an

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organization where IT is often still seen as a cost center, where operations means "run" as opposed to "change", and where middle-aged middle-management has become cozy neither understanding the business strategy nor the underlying technology. It's no surprise then that IT

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readers relate better to technical topics because we all have similar experiences throughout our careers. As with any other shift in technology, there is a lot of hype and many myths and

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misperceptions about cloud computing that lead to resistance or difficulties for some organizations in adopting the cloud. I have observed the same behavior numerous times in my career

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with the adoption of the Internet, service-oriented architecture (SOA), agile methodologies, and others. I have been fortunate enough to have multiple opportunities to be a pioneer for several of

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these technology shifts. I will use some stories from the past to show the parallels between the resistance to cloud computing and the resistance to the predecessor technologies.

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