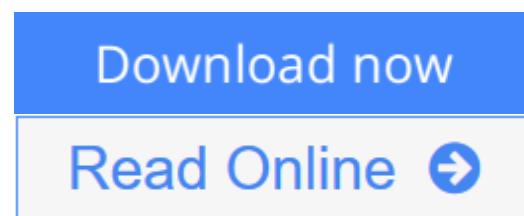


Cloud Computing: Automating the Virtualized Data Center (Networking Technology)

By Venkata Josyula, Malcolm Orr, Greg Page



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The complete guide to provisioning and managing cloud-based Infrastructure as a Service (IaaS) data center solutions

Cloud computing will revolutionize the way IT resources are deployed, configured, and managed for years to come. Service providers and customers each stand to realize tremendous value from this paradigm shift—if they can take advantage of it. Cloud Computing brings together the realistic, start-to-finish guidance they need to plan, implement, and manage cloud solution architectures for tomorrow's virtualized data centers. It introduces cloud "newcomers" to essential concepts, and offers experienced operations professionals detailed guidance on delivering Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS).

This book's replicable solutions and fully-tested best practices will help enterprises, service providers, consultants, and Cisco partners meet the challenge of provisioning end-to-end cloud infrastructures. Drawing on extensive experience working with leading cloud vendors and integrators, the authors present detailed operations workflow examples, proven techniques for operating cloud-based network, compute, and storage infrastructure; a comprehensive management reference architecture; and a complete case study demonstrating rapid, lower-cost solutions design.

Cloud Computing will be an indispensable resource for all network/IT professionals and managers involved with planning, implementing, or managing the next generation of cloud computing services.

Venkata (Josh) Josyula, Ph.D., CCIE® No. 13518 is a Distinguished Services Engineer in Cisco Services Technology Group (CSTG) and advises Cisco customers on OSS/BSS architecture and solutions.

Malcolm Orr, Solutions Architect for Cisco's Services Technology Solutions, advises telecoms and enterprise clients on architecting, building, and operating OSS/BSS and cloud management stacks. He is Cisco's lead architect for several Tier 1 public cloud projects.

Greg Page has spent the last eleven years with Cisco in technical consulting roles relating to data center architecture/technology and service provider security. He is now exclusively focused on developing cloud/IaaS solutions with service providers and systems integrator partners.

- Review the key concepts needed to successfully deploy clouds and cloud-based services
- Transition common enterprise design patterns and use cases to the cloud
- Master architectural principles and infrastructure designs for “real-time” managed IT services
- Understand the Cisco approach to cloud-related technologies, systems, and services
- Develop a cloud management architecture using ITIL, TMF, and ITU-TMN standards
- Implement best practices for cloud service provisioning, activation, and management
- Automate cloud infrastructure to simplify service delivery, monitoring, and assurance
- Choose and implement the right billing/chargeback approaches for your business
- Design and build IaaS services, from start to finish
- Manage the unique capacity challenges associated with sporadic, real-time demand
- Provide a consistent and optimal cloud user experience

This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

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Editorial Review

About the Author

Venkata (Josh) Josyula, Ph.D., CCIE No. 13518, is a distinguished services engineer (DSE) and lead solutions architect in Cisco Services Technology Group (CSTG). He has more than 25 years of diverse experience in network management for telecommunications and IP in a variety of positions, including systems engineering, technical marketing, consulting, customer management, and deployment.

Josh has been with Cisco for 11 years and, prior to that, worked at Bell Laboratories as a distinguished engineer. Josh has written and/or contributed to key ITU-T network management documents and served as advisory director for the TMF board. Josh has published more than 60 technical papers, reports, articles, and books and is frequently called upon by Cisco customers and internal Cisco engineers around the world for advice and presentations and to perform OSS assessment on OSS/BSS architecture and products.

Malcolm Orr (B.S.) is an enterprise architect within the Cisco Services Division. Malcolm focuses on advising telecommunication companies and large enterprise clients on how to architect, build, and operate NGN and cloud platforms. Malcolm has more than 18 years in the IT industry, of which the past 5 years he has spent at Cisco involved in architecting and delivering complex solutions to various clients. He currently is the lead architect for a number of Tier 1 public cloud projects within Cisco. Prior to joining Cisco, Malcolm was a principal consultant at AMDOCS, working on the BT 21CN transformation, and he was one of the founders and the technical director of Harbrook Consultants, a consulting firm specializing in network and system management.

Greg Page (B.A. (Hons.)) is a solutions architect for Cisco Systems within the presales Data Center architecture team. Greg has been working in the IT industry for 16 years (the last 11 with Cisco Systems) in a variety of technical consulting roles specializing in data center architecture and technology in addition to service provider security (CISSP #77673).

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