Foreword

I got an opportunity to go through the abstract of the chapters for this new book on the path-breaking virtualization paradigm and hence I think I have gained the required competency to write the foreword for this book. Yes, the virtualization idea definitely has brought in the much-needed tectonic shift for the IT industry. With the virtualization, the automation level is getting deeper into our everyday systems and in their operations and offerings. We hear, read and even experience the programmable, virtualized, sharable, interoperable, portable, and composable infrastructures. Once upon a time, the IT infrastructures (server machines, storage appliances, and network solutions such as load balancers, firewalls, switches, and routers, etc.) are massive, monolithic, closed, inflexible, underutilized, expensive, etc. Now with the virtualization tricks, tips and techniques are gathering the critical mass, the IT infrastructures steadily are becoming programmable, extensible, open, modular, productive, etc. Further on, IT products are remotely discoverable, usable, monitorable, measurable, manageable, and repairable. The virtualization concept has purposefully penetrated into every element so that we increasingly hear about service, application, data, and OS virtualization concepts.

The editor of the book has meticulously chosen the chapter titles for the book. This book covers everything about the virtualization technology and how it is impacting the various computing models such as grid and cloud computing. The application domains and use cases of the powerful virtualization principles are vividly illustrated through a few chapters. There are several chapters exclusively ordained for practical information and tutorials. Increasingly the computing becomes virtual and voluntary and there is an exclusive chapter on this in order to portray how virtual supercomputing is being made possible through the smart application of the proven and potential virtualization technology. Mobile virtualization is also explained in a chapter. There are chapters for virtual networks, routers, and firewalls. Definitely, this book is going to be an informative and inspiring one for the prospective readers as the book is stuffed with a lot of right and relevant information for cloud engineers, evangelists, exponents, and experts.

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