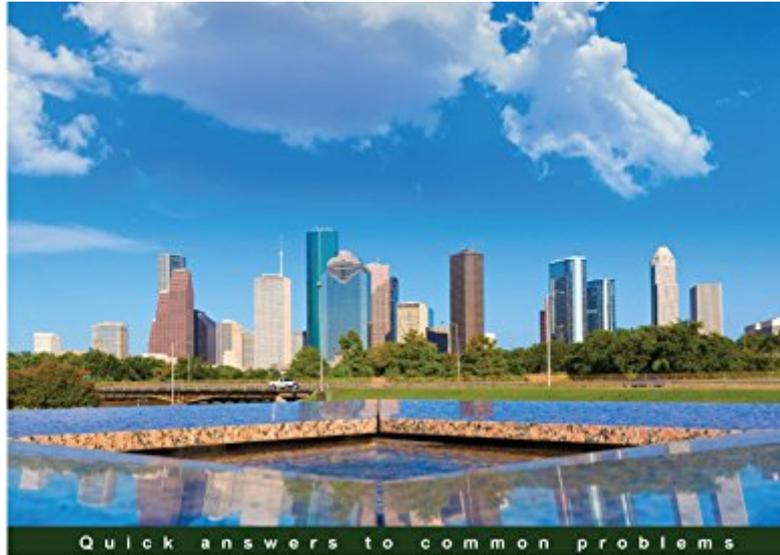


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# VMware vSphere 6.X Datacenter Design Cookbook - Second Edition



## VMware vSphere 6.x Datacenter Design Cookbook *Second Edition*

Over 75 practical recipes to confidently design an efficient virtual datacenter with VMware vSphere 6.x

Hersey Cartwright

[PACKT] enterprise<sup>88</sup>  
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## Synopsis

Over 75 practical recipes to confidently design an efficient virtual datacenter with VMware vSphere 6.x

**About This Book** Get the first book on the market that helps you design a virtualized data center with VMware vSphere 6. Achieve enhanced compute, storage, network, and management capabilities for your virtual data center. Exciting and practical recipes help you to design a virtual data center easily by leveraging the features of VMware vSphere 6.

**Who This Book Is For** If you are an administrator or consultant interested in designing virtualized datacenter environments using VMware vSphere 6.x or previous versions of vSphere and the supporting components, this book is for you. It will help both new and experienced architects deliver professional VMware vSphere virtual datacenter designs.

**What You Will Learn** Identify key factors related to a vSphere design and apply them to every step of the design process. Mitigate security risks and meet compliance requirements in a vSphere design. Create a vSphere conceptual design by identifying technical and business requirements. Determine the type of database to use based on the deployment size. Design for performance, availability, recoverability, manageability, and security. Map the logical resource design into the physical vSphere design. Create professional vSphere design documentation to ensure a successful implementation of the vSphere design. Leverage the latest vSphere 6.x features to ensure manageability, performance, availability, and security in a virtual datacenter design.

**In Detail** VMware is the industry leader in data center virtualization. The vSphere 6.x suite of products provides a robust and resilient platform to virtualize server and application workloads. With the release of 6.x a whole range of new features has come along such as ESXi Security enhancements, fault tolerance, high availability enhancements, and virtual volumes, thus simplifying the secure management of resources, the availability of applications, and performance enhancements of workloads deployed in the virtualized datacenter. This book provides recipes to create a virtual datacenter design using the features of vSphere 6.x by guiding you through the process of identifying the design factors and applying them to the logical and physical design process. You will follow steps that walk you through the design process from beginning to end, right from the discovery process to creating the conceptual design; calculating the resource requirements of the logical storage, compute, and network design; mapping the logical requirements to a physical design; security design; and finally creating the design documentation. The recipes in this book provide guidance on making design decisions to ensure the successful creation, and ultimately the successful implementation, of a VMware vSphere 6.x virtual data center design.

**Style and Approach** The book follows a recipe-based approach that consists of practical recipes to effectively design a virtual data center.

## Book Information

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## Customer Reviews

Whether you are a seasoned architect who still is getting familiar with vSphere 6 or a hands-on engineer who likes to get a firmer grip on design and architecture using vSphere 6, Hersey's updated datacenter cookbook just might be just the book you need. This book graciously keeps a good balance between datacenter design principles, best practices and howto's. In this book Hersey takes you by the hand and guides you through the steps needed to create a virtual datacenter design using vSphere 6. Besides the necessary theoretical explanations Hersey offers his readers 75 recipes which they can use to help with the creation or optimization of a virtual datacenter design: What are the prerequisites you need for a design? Who do you have to talk to? What are goals, requirements, risks and assumptions? How do you create a conceptual, logical and physical design? How do you need to calculate how many CPU, RAM or storage you need? What are the new features in vSphere 6 which might be important to my design? What basic design documentation do you need to create and how do you create it? Across both versions of Hersey's book the design principles have remained the same but there is no denying that vSphere 6 has a lot of differences which set it apart from vSphere 5.x. As such Hersey's design

recipes which have been modified to reflect a vSphere 6 virtual datacenter design where needed, should be a welcome read for everyone. The structure of the book: This book contains one chapter more than its predecessor and caps now at 12 chapters. It goes without saying that datacenter security is becoming more and more important and as such security has been assigned its own chapter. Personally I think this is a very welcome addition.

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