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Autore	Siron Eric
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Nota di contenuto	Cover; Copyright; Credits; About the Author; About the Reviewers; www.PacktPub.com; Table of Contents; Preface; Chapter 1: Hyper-V Cluster Orientation; Terminology; Clustering in a Microsoft environment; Create a project document; Purposes for a Hyper-V Server cluster; High availability; High Availability Printing; Balancing resources; Geographic dispersion; Natural replacement for aging infrastructure; Test, development, and training systems; Cloud hosting; Resource metering; VDI and RemoteFX; Be open to other purposes; Goals for a Hyper-V Server cluster Identify the resources that cannot be virtualizedConsult with application vendors; Involve internal stakeholders; Define phases and timelines; Perform further research; Define success metrics; Measure and predict your workload; Only allow changes during the planning phase; Looking forward to the Design phase; Host computers; Storage; Cluster Shared Volumes; SMB shares; Mixing SMB 3.0 and CSV; Networking; Management; Cluster and Cluster Shared Volumes; Live Migration; Subnetting; Virtual machine traffic; Storage traffic; Physical adapter considerations; Adapter teaming; Active Directory Virtualized domain controllersSupporting software; Management tools; Backup; Training; A sample Hyper-V Cluster planning document; Sample project title - Techstra Hyper-V Cluster Project; Sample project - purposes; Sample project - goals; Review the sample project; Summary; Chapter 2: Cluster Design and Planning; Starting the design

phase; Planning for existing systems; Deciding how you will virtualize physical systems; Determining requirements for existing systems; Microsoft Assessment and Planning Toolkit; Performance Monitor; General approaches to reading the metrics; Memory measurements
Network measurementsDisk measurements; Processor measurements; Host computer components; Hyper-V Server requirements; CPU; Memory; Host networking; Host storage; Management operating system; Hyper-V Server; Windows Server; Deciding on a management operating system; Networking; Advanced networking hardware; Shared storage; Storage area network devices; Network-attached storage devices; General purpose computers; Shared storage performance characteristics; Designing shared storage; Software licensing; Windows Server and guest virtualization rights; Software Assurance; Client access licenses
Other software licensesHyper-V and cluster-related software planning; Remote software applications; Local software applications; Blade hardware; Physical placement; Security; Domain separation; Hyper-V isolation; Network isolation; Complete the planning phase; Sample project - planning and design; Sample project - hardware; Summary; Chapter 3: Constructing a Hyper-V Server Cluster; Documenting the initial setup phase; Build steps not covered in this book; Auxiliary built-in tools; Acquiring and enabling the GUI tools; Enabling the tools on Windows 8/8.1 from the GUI
Enabling the tools on Windows Server 2012/R2 in the GUI

Sommario/riassunto

This book is written in a friendly and practical style with numerous tutorials centred on common as well as atypical Hyper-V cluster designs. This book also features a sample cluster design throughout to help you learn how to design a Hyper-V in a real-world scenario. Microsoft Hyper-V Cluster Design is perfect for the systems administrator who has a good understanding of Windows Server in an Active Directory domain and is ready to expand into a highly available virtualized environment. It only expects that you will be familiar with basic hypervisor terminology.