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Nota di contenuto	VMware vSphere Design; Contents; Introduction; Chapter 1 An Introduction to Designing VMware Environments; What Is Design?; The Facets of vSphere Design; The Technical Facet; The Organizational Facet; The Operational Facet; The Process of Design; Gathering and Defining Functional Requirements; Assessing the Environment; Assembling the Design; Documenting the Design; Performing the Implementation; Summary; Chapter 2 ESX vs. ESXi; Two vSphere Hypervisors; ESX Design; Installation Design Options; Post-Installation Design Options; ESXi Design; Similarities; When to Use ESX; When to Use ESXi ESXi ComponentsESXi Agents; ESXi System Image; ESXi Flavors: Installable and Embedded; ESXi Management; Migrating to ESXi; Testing; Deployment; Management; Summary; Chapter 3 Designing the Management Layer; Components of the Management Layer; VMware vCenter Server; Choosing the Operating System for your vCenter; VMware Update Manager; Management Applications; Sizing Your vCenter Server; Operating System; Using a Remote or Local Server; Number of Objects Managed; Update Manager; Plug-ins; Guided

Consolidation; Storage Vendor Plug-in; Linked Mode; Prerequisites; Considerations
Under the Covers Roles; vCenter: Virtual or Physical; Physical Server; Virtual; Redundancy; vCenter; SQL/Oracle Database; Security; Isolation; Permissions; SSL Certificates; Summary; Chapter 4 Server Hardware; Hardware Considerations; Factors in Selecting Hardware; Computing Needs; Server Constraints; Differentiating Among Vendors; Server Components; CPU; RAM; NUMA; Motherboard; Storage; Network; PCI; Preparing the Server; Configuring the BIOS; Other Hardware Settings; Burn-in; Preproduction Checks; Scale Up vs. Scale Out; Advantages of Scaling Up; Advantages of Scaling Out
Scaling Is a Matter of Perspective Risk Assessment; Choosing the Right Size; Blade Servers vs. Rack Servers; Blade Servers; Rack Servers; Form-Factor Conclusions; Alternative Hardware Approaches; Cloud Computing; Converged Hardware; Summary; Chapter 5 Designing your Network; Designing with Redundancy; Hosts; Network Switches (pSwitches); Security; Management Network; Virtual Machine Traffic; IP Storage Network Traffic; vMotion and FT Traffic; Performance; Service Console; vMotion; IP Storage; Virtual Machine Network; Teaming Options; Guest OS Network Teaming and Virtual Machine Port Groups IP Storage Jumbo Frames; Fault Tolerance; 10GbE; Physical Network Cable; Switches; Network Modules; vSwitches and vDSs; Central Management; Private VLANs; Port Groups, Management, and VMkernel; Naming and IP Conventions; Design Scenarios; Two NICs; Four NICs; Six NICs; Eight NICs; Two 10GbE NICs; Four 10GbE NICs; Summary; Chapter 6 Storage; Dimensions of Storage Design; Storage Design Factors; Storage Efficiency; Designing for Capacity; RAID Options; Estimating Capacity Requirements; VMFS Capacity Limits; Large or Small Datastores?; VMFS Block Sizes; Thin Provisioning; Data Deduplication
Array Compression

Sommario/riassunto

The only book focused on designing VMware vSphere implementations. VMware vSphere is the most widely deployed virtualization platform today. Considered the most robust and sophisticated hypervisor product, vSphere is the de facto standard for businesses, both large and small. This book is the only one of its kind to concisely explain how to execute a successful vSphere architecture, tailored to meet your company's needs. Expert authors share with you the factors that shape the design of a vSphere implementation. Learn how to make the right design decisions for your environment. Explor
