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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: Understanding vSphere System Requirements; ESXi system requirements; vCenter components; Understanding vSphere features; Topology basics; Understanding vSphere data center; Familiarizing yourself with a vSphere cluster; What is a vSphere host?; Remembering configuration maximums; Virtual machine maximums (per VM); ESXi host maximums (per host); Cluster maximums; Determining resource utilization requirements; Monitoring common resource statistics; Sample workload Collecting statistics on Windows Collecting statistics on Linux; Summary; Chapter 2: Assigning Resources to VMs; The basics of overcommitment and virtualization; CPU scheduling and the effect of multiple vCPU VMs; Memory assignment and management; Memory overhead; Transparent page sharing and memory compression; Ballooning; The VSWP swap file; Monitoring memory usage; Storage considerations and their effects on performance; What is IOPS?; RAID; VMware vSphere Storage APIs - Array Integration (VAAI); Connectivity and throughput; VMFS; VM disk provisioning; Monitoring storage; Networking

UplinksWhat is a vSwitch?; Monitoring network connectivity with ESXTOP; Summary; Chapter 3: Advanced Resource Management Features; Understanding CPU power management; Reservations, limits, and shares; Resource limits; Resource shares; Resource pools; vApps; vMotion; Enhanced vMotion Capability (EVC); How to enable EVC; DRS; DRS affinity and anti-affinity rules; High Availability; Admission control; App HA; Fault Tolerance; Hot Add; Storage vMotion, Storage DRS, and Datastore clusters; Storage vMotion; Datastore clusters; Storage DRS; vSphere Distributed Switches; New in vSphere 5.5 vSphere Flash Read CacheVSAN; Summary; Chapter 4: Automation and Monitoring Options; Automation solutions for vSphere; Cloning VMs; VM templates; Update Manager; Host profiles; Auto deploy; PowerCLI basics; vCenter Orchestrator basics; Automating resource management; Creating a new VM; Creating a new VM with PowerCLI; Creating a new VM with vCO; Community automation resources; Available monitoring options; Alarms; Configuring an alarm; vCenter Operations Manager; Summary; Index

Sommario/riassunto

This concise guide follows a practical approach, covering solutions and methods to manage resources for virtualization. If you are a current vSphere administrator who is aspiring to start your virtualization journey with VMware vSphere and wants to learn how to manage your resources, this is the book for you. Readers are expected to have some prior knowledge of ESXi and vCenter.
