

APPENDIX B

References and Links

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Every good book leaves you wanting to know more. For your convenience, this appendix collects the many references to external resources cited throughout the book in a single place. We begin with a selection of general resources and then list those referenced in individual chapters.

General Resources

Whether or not we mentioned them specifically in the book, the references in this section have proven useful to all of us.

Contributors Blogs

Each of the authors maintains a personal blog that contains a wealth of information regarding IT infrastructure management, in particular automation with PowerShell:

Luc Dekens: www.lucd.info/

Arnim van Lieshout: www.van-lieshout.com/

Jonathan Medd: www.jonathanmedd.net/

Alan Renouf: www.virtu-al.net/

Glenn Sizemore: <http://get-admin.com/blog/>

In addition, our most esteemed technical reviewer contributes to the same communities via his own, highly respected blog. You can visit Stuart Radnidge's blog at blog.vinternals.com.

PowerShell Resources

PowerShell 2 is included by default in Windows 7 and Windows Server 2008 R2. For earlier versions of Windows, PowerShell 2 can be downloaded as part of the Windows Management Framework.

Windows Management Framework: <http://support.microsoft.com/kb/968930>

Far too many PowerShell community resources, forums, and blogs exist now to list in this appendix. However, here are some great places for getting started:

PowerShell Team Blog: <http://blogs.msdn.com/b/powershell/>

Microsoft Script Center: <http://scriptingguys.com>

Microsoft PowerShell Forum: <http://social.technet.microsoft.com/Forums/en/winserverpowershell/threads>

PowerShellCommunity.org: www.powershellcommunity.org/

Computer Performance: www.computerperformance.co.uk/powershell/index.html

You can even learn about PowerShell while on the move via two great podcasts dedicated to PowerShell:

The PowerScripting Podcast from Jonathan Walz and Hal Rottenberg:
<http://powerscripting.net/>

The Get-Scripting Podcast from Jonathan Medd and Alan Renouf:
<http://get-scripting.blogspot.com/>

A number of different editors, both free and commercial, are available to make writing your scripts easier. We recommend you try out a few until you find the one you are most comfortable with. Some of the most popular are

PowerShell ISE: <http://technet.microsoft.com/en-us/library/dd819514.aspx>

PowerGUI: <http://powergui.org/index.jspa>

vEcoShell: www.quest.com/vecoshell/

PowerShell Plus: www.idera.com/products/powershell/

PrimalScript: www.primaltools.com/products/info.asp?p=PrimalScript

PrimalForms: www.primaltools.com/products/info.asp?p=PrimalForms

PowerCLI Resources

The different versions of PowerCLI (and the documentation) can be downloaded from:

PowerCLI download: www.vmware.com/support/developer/PowerCLI/index.html

In particular the online PowerCLI Reference for 4.1 can be found here:

Online PowerCLI Reference: www.vmware.com/support/developer/PowerCLI/PowerCLI41U1/html/index.html

The VMware PowerCLI development team maintains a blog that will keep you up-to-date with new releases. They also provide useful examples on how PowerCLI can be used.

VMware PowerCLI blog: <http://blogs.vmware.com/vipowershell/>

The VMware Community Forum for PowerCLI is possibly the best place to go for help with PowerCLI. Many PowerCLI experts monitor the forum and provide excellent answers to your questions.

VMware PowerCLI Forum: <http://communities.vmware.com/community/vmtn/vsphere/automationtools/powercli>

VMware Update Manager PowerCLI is available to be downloaded from here:

vCenter Update Manager PowerCLI: <http://communities.vmware.com/community/vmtn/vsphere/automationtools/powercli/updatemanager>

There is also an equivalent online vCenter PowerCLI Reference:

vCenter Update Manager Online Reference: www.vmware.com/support/developer/ps-libs/vumps/vumps41/html/index.html

Chapter Resources

We mentioned many resources throughout this book. Can't remember which chapter contained the one you want to check out? Don't worry. We've collected all of them here for you!

Chapter 1: Automating vCenter Server Deployment and Configuration

Performing a command-line installation of vCenter Server 4.0: www.vmware.com/pdf/vsp_4_vcserver_cmdline_install.pdf

Chapter 2: Automating vSphere Hypervisor Deployment and Configuration

ISO editing tool, MagicISO: www.magiciso.com/download.htm

Create bootable Live USB drives, UNetbootin: <http://unetbootin.sourceforge.net/>

Ultimate Deployment Appliance (UDA): www.rtfm-ed.co.uk/vmware-content/ultimate-da/

vKickstartomatic: www.sybex.com/go/vmwarevspherepowerclioref

Encrypting the root password in vKickstartomatic with OpenSSL: www.slproweb.com/products/Win32OpenSSL.html

Maish Saidel-Keesing's ESXi deployment: <http://technodrone.blogspot.com/2010/04/esxi-deployment-solution-part-2.html>

Chapter 3: Automating Storage and Networking

Identifying disks when working with ESX: http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1014953

Chapter 4: Using Advanced vSphere Features

DistributedSwitch PowerCLI module: www.sybex.com/go/vmwarevspherepowercli

Chapter 5: Creating Virtual Machines

vSphere API documentation: www.vmware.com/support/developer/vc-sdk/visdk41pubs/ApiReference/index.html

Chapter 6: Using Templates and Customization Specifications

vSphere Compatibility Matrix: http://www.vmware.com/pdf/vsphere4/r40/vsp_compatibility_matrix.pdf

Sysprep file locations and versions: http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1005593

Chapter 7: Configuring Virtual Machine Hardware

Expanding Windows Server 2003 Volumes <http://support.microsoft.com/kb/886986>

Chapter 8: Advanced Virtual Machine Features

PuTTY: www.chiark.greenend.org.uk/~sgtatham/putty

WMI: [http://msdn.microsoft.com/en-us/library/aa394582\(v=VS.85\).aspx](http://msdn.microsoft.com/en-us/library/aa394582(v=VS.85).aspx)

Windows Management Framework: <http://support.microsoft.com/kb/968929>

Enabling PowerShell 2.0 remoting in an enterprise: www.jonathanmedd.net/2010/03/enabling-powershell-2-0-remoting-in-an-enterprise.html

GuestDiskExpansion_winLonghorn64Guest.bat: www.sybex.com/go/vmwarevSpherepowercliRef

How to control the maximum number of VMware snapshots:
www.virtuallyghetto.com/2010/10/how-to-control-maximum-number-of-vmware.html

Chapter 9: Using vApps

VMware Virtual Appliance Marketplace: www.vmware.com/appliances/

Chapter 10: Backing Up and Restoring Your Virtual Machines

VMware Site Recovery Manager: www.vmware.com/products/site-recovery-manager/

Quest vRanger: www.quest.com/vranger/

Veeam Backup and Replication: www.veeam.com/vmware-esx-backup.html?ad=home

Chapter 11: Organize Your Disaster Recovery

Feature Pack for Microsoft SQL Server 2005: www.microsoft.com/downloads/en/details.aspx?FamilyID=d09c1d60-a13c-4479-9b91-9e8b9d835cdc

Chapter 12: Hardening the vSphere Environment

The VMware Security Blog: <http://blogs.vmware.com/security/>

The VMTN Security and Compliance community: <http://communities.vmware.com/community/vmtn/general/security>

The vSphere 4.0 Security Hardening Guide: <http://www.vmware.com/resources/techresources/10109>

Chapter 13: Maintain Security in Your vSphere Environment

vCenter Update Manager PowerCLI: <http://communities.vmware.com/community/vmtn/vsphere/automationtools/powercli/updatemanager>

ESX Deployment Appliance (EDA): www.vmware.com/appliances/directory/89313

Ultimate Deployment Appliance (UDA): www.rtfm-ed.co.uk/vmware-content/ultimate-da/

Chapter 14: Reporting the Status of Your vSphere Environment

vCheck Report: www.virtu-al.net/featured-scripts/vcheck

VMware Community PowerPack: www.virtu-al.net/featured-scripts/vmware-powerpack

The PCI ID Repository: <http://pci-ids.ucw.cz/>

Chapter 15: Using Statistical Data

VMware vSphere API Reference Documentation: www.vmware.com/support/developer/vc-sdk/visdk41pubs/ApiReference/index.html

Performance Community on VMware Technology Network:
<http://communities.vmware.com/community/vmtn/general/performance>

Chapter 16: Monitoring the vSphere Environment

VMware vSphere API Reference Object Types: www.vmware.com/support/developer/vc-sdk/visdk400pubs/ReferenceGuide/api_versions_all_index.html

Complete list of managed object types in VMware vSphere API: www.doublecloud.org/2010/07/complete-list-of-managed-object-types-in-vmware-vsphere-api/

Chapter 17: Auditing the vSphere Environment

VMware vSphere Web Services SDK Documentation: www.vmware.com/support/developer/vc-sdk/

VMware vSphere API Reference Documentation: www.vmware.com/support/developer/vc-sdk/visdk41pubs/ApiReference/index.html

Chapter 18: Scheduling Automation Scripts

How to use the AT command to schedule tasks: <http://support.microsoft.com/kb/313565>

How to use Schtasks.exe to schedule tasks in Windows Server 2003:
<http://support.microsoft.com/kb/814596>

PowerShell Pack Module: <http://code.msdn.microsoft.com/PowerShellPack>

Chapter 19: The SDK

VMware vSphere Web Services SDK Documentation: www.vmware.com/support/developer/vc-sdk/

VMware vSphere API Reference Documentation: www.vmware.com/support/developer/vc-sdk/visdk41pubs/ApiReference/index.html

VMware VI and vSphere SDK by Steve Jin: www.informit.com/store/product.aspx?isbn=0137153635

VMware VI (vSphere) Java API: <http://vijava.sourceforge.net/>

Chapter 20: The Onyx Project

VMware Project Onyx: <http://communities.vmware.com/community/vmtn/vsphere/automationtools/onyx>

Chapter 21: PowerGUI and vEcoShell

PowerGUI: <http://powergui.org/index.jspa>

PowerGUI PowerPacks: <http://powergui.org/kbcategory.jspa?categoryID=21>

vEcoShell: www.quest.com/vecoshell/

VMware Community PowerPack: <http://powergui.org/entry.jspa?externalID=2551&categoryID=290>

Quest Software AD cmdlets: www.quest.com/powershell/activeroles-server.aspx

vCheck Report: www.virtu-al.net/featured-scripts/vcheck

Convert PNG files to ICO: www.convertico.com/

Chapter 22: PowerWF Studio

PowerWF Studio: <http://powerwf.com/>

Microsoft System Center Operations Manager: <http://www.microsoft.com/systemcenter/en/us/operations-manager/om-overview.aspx>

Chapter 23: Add a GUI Front-End to Your Automation Scripts

PrimalForms Community Edition: www.primaltools.com/downloads/communitytools/

PrimalForms Commercial Edition: PrimalForms: www.primaltools.com/products/info.asp?p=PrimalForms

AdminScriptEditor: <http://www.adminscripteditor.com/>

Appendix A: Basic PowerShell

Gottfried Wilhelm Leibniz (1646–1716), The Monadology:
<http://en.wikipedia.org/wiki/Monadology>

PowerShell cmdlet verbs: <http://msdn.microsoft.com/en-us/library/ms714428%28v=vs.85%29.aspx>

PowerShell common parameters: <http://msdn.microsoft.com/en-us/library/dd901844%28VS.85%29.aspx>

PowerTab: <http://powertab.codeplex.com/>

Master PowerShell with Dr. Tobias Weltner: <http://powershell.com/cs/blogs/ebook/>

