

APPENDIX B

Reference URLs

This appendix includes a number of reference URLs associated with hybrid cloud and Microsoft Azure Stack. URLs do change—although the authors have made every effort to verify the references here as working links, there is no guarantee they will remain current. It is quite possible some will change or be “dead” by the time you read this book. Sometimes the Wayback Machine (<http://www.archive.org/index.php>) can rescue you from dead or broken links. This site is an Internet archive, and it will take you back to an archived version of a site—sometimes.

These links are also available “live” at Pearson’s InformIT website at <http://www.informit.com/title/9780672338502> under the Downloads tab. Look for Appendix B, “Reference URLs.”

General Resources

A number of websites provide excellent resources for hybrid cloud and Microsoft Azure Stack. This section lists some of the more general resources available.

- ▶ GitHub is a web-based Git or version control repository and Internet hosting service, used mostly for code. It offers the distributed version control and source software development platform functionality of Git, while adding its own features. GitHub is accessed at <https://github.com>.
- ▶ Read about the growth of cloud computing at <https://www.forbes.com/sites/louiscolumbus/2015/01/24/roundup-of-cloud-computing-forecasts-and-market-estimates-2015/#47fe12c0db7a>.
- ▶ See Market Research Media’s Global Cloud Computing Market forecast (2015-2020) at <https://www.marketresearchmedia.com/?p=839>.

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- ▶ Tight Scale's 2016 State of the Cloud report is available at <https://www.rightscale.com/lp/state-of-the-cloud>.
- ▶ A Gartner blog discusses problems encountered by private clouds, at <http://gtnr.it/1LTLIJC>.
- ▶ Understand Microsoft's Azure Stack with Rand Morimoto's 2016 Network World article at <https://www.networkworld.com/article/3037483/cloud-computing/truly-understanding-microsoft-s-azure-stack.html>.
- ▶ Access a Gartner Group report stating that hybrid cloud is anticipated to become the most common use of cloud by 2019, at <http://www.gartner.com/newsroom/id/3354117>.

Microsoft's Hybrid Cloud Resources

The following list includes some general Microsoft resources available for hybrid cloud and Azure Stack:

- ▶ Microsoft provides a DevOps self-assessment tool, available at <https://devopsassessment.azurewebsites.net>.
- ▶ Download the Azure Stack Development Kit (ASDK) from the Microsoft Software Download Center (<http://aka.ms/azurestack>).
- ▶ Find a full feature list of the Modern Azure Portal at <https://azure.microsoft.com/en-us/features/azure-portal>.
- ▶ The Azure Classic Portal is hosted at <https://manage.windowsazure.com>.
- ▶ Microsoft lists key features and concepts in Azure Stack at <https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-key-features>.
- ▶ ASDK architecture is documented at <https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-architecture>.
- ▶ Microsoft provides Azure Stack tutorials and an application programming interface (API) reference at <https://docs.microsoft.com/en-us/azure/azure-stack/>.
- ▶ Find Microsoft's Azure DevOps self-assessment tool at <https://devopsassessment.azurewebsites.net>. The wizard lets you describe your DevOps scenario along with the tooling plan you intend to use.
- ▶ Use Azure Marketplace to grow your cloud business; see <https://azuremarketplace.microsoft.com/en-us/sell>.
- ▶ Download the Azure Stack Tools from GitHub at <http://aka.ms/azurestacktools/>.
- ▶ Read about platform as a service (PaaS) services for Azure Stack at <https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-tools-paas-services>.

- ▶ How to perform conditional deployments in Azure Stack is described with the example at <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-authoring-templates#resources>.
- ▶ Find a description for controls for a CreateUIDefinition file at <https://docs.microsoft.com/en-us/azure/azure-resource-manager/managed-application-createuidefinition-elements>.
- ▶ Deploy a SQL resource provider using the script at <https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-sql-resource-provider-deploy>.
- ▶ Deploy the MySQL resource provider using the script at <https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-mysql-resource-provider-deploy>.
- ▶ Download the System Center Management Pack for Microsoft Azure from <https://www.microsoft.com/en-us/download/details.aspx?id=50013>.
- ▶ Information about connecting to Azure Stack using Remote Desktop is available at <https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-connect-azure-stack>.
- ▶ API version profiles are discussed at <https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-version-profiles>.
- ▶ Read about installing Azure Stack PowerShell at <https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-powershell-install>.
- ▶ Information about downloading the Azure Stack PowerShell modules from GitHub is at <https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-powershell-download>.
- ▶ See <https://technet.microsoft.com/en-us/library/bb978526.aspx> to get started with PowerShell.
- ▶ Considerations about authoring ARM templates are documented at <https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-develop-templates>. Find additional information at <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-authoring-templates>.
- ▶ Available ARM template schemas can be downloaded from the Azure GitHub repository at <https://github.com/Azure/azure-resource-manager-schemas/tree/master/schemas>.
- ▶ Read about best practices for ARM templates at <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-template-best-practices>.
- ▶ Read about defining resources in ARM templates at <https://docs.microsoft.com/en-us/azure/templates/>.
- ▶ Resource functions for ARM templates are listed at <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-template-functions-resource>. ARM template functions are discussed at <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-template-functions>.

- ▶ Information about nested templates is at <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-linked-templates>.
- ▶ For a guide to install and connect Microsoft Visual Studio to Azure Stack, see <https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-install-visual-studio>.
- ▶ Get started authoring templates with Visual Studio Code with the documentation at <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-vs-code>.
- ▶ Read how to provision a virtual machine (VM) in Azure and join it to an existing Active Directory domain at <https://blogs.msdn.microsoft.com/igorpag/2016/01/25/azure-arm-vm-domain-join-to-active-directory-domain-with-joindomain-extension/>.
- ▶ Find a VM extension to enable Remote Desktop and password reset at <https://github.com/Azure/AzureStack-QuickStart-Templates/tree/master/vmaccess-ext-win>.
- ▶ For information about executing a custom script on a Linux VM (Bash), see <https://github.com/Azure/AzureStack-QuickStart-Templates/tree/master/101-vm-linux-apply-extension-customscript>.
- ▶ Read about enabling Remote Desktop and password reset on Linux at <https://azure.microsoft.com/en-us/blog/using-vmaccess-extension-to-reset-login-credentials-for-linux-vm/>.
- ▶ Configure a Docker environment on a Windows or Linux VM with the information at <https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-linux-dockerextension>.
- ▶ Install and configure the Microsoft Monitoring Agent for OMS on VM at <https://github.com/Azure/AzureStack-QuickStart-Templates/tree/master/MicrosoftMonitoringAgent-ext-win>.
- ▶ Examples of using Azure Resource Manager (ARM) template extensions are available at <https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-extensions-configuration-samples>.
- ▶ Read about PowerShell Desired State Configuration (DSC) at <https://docs.microsoft.com/en-us/powershell/dsc/overview>.
- ▶ Continuous delivery (CD) is usually described as part of DevOps. For an example of CD using Azure Automation, see <https://docs.microsoft.com/en-us/azure/automation/automation-dsc-cd-chocolatey>.
- ▶ Azure Automation runbook types are described at <https://docs.microsoft.com/en-us/azure/automation/automation-runbook-types>.
- ▶ For information about runbook execution, see <https://docs.microsoft.com/en-us/azure/automation/automation-runbook-execution>.
- ▶ Read about variable assets in Azure Automation at <https://docs.microsoft.com/en-us/azure/automation/automation-variables>.

- ▶ Integration modules are described at <https://docs.microsoft.com/en-us/azure/automation/automation-integration-modules>.
- ▶ For examples of automation packs, see the Azure Automation GitHub repository at <https://github.com/azureautomation/automation-packs>.
- ▶ The PowerShell ISE add-on for Azure Automation Authoring is at <https://github.com/azureautomation/azure-automation-ise-addon>.
- ▶ Authoring graphical runbooks is discussed at <https://docs.microsoft.com/en-us/azure/automation/automation-graphical-authoring-intro>.
- ▶ For information about creating schedules, see <https://docs.microsoft.com/en-us/azure/automation/automation-schedules>. This documentation also describes how to create and use schedules with PowerShell. To see how to create and link a schedule using an ARM template, check the template sample at <https://github.com/azureautomation/automation-packs/blob/master/101-sample-automation-resource-templates/sample-deploy-schedule/>.
- ▶ Read how to automate resources using Azure Automation's hybrid runbook worker feature at <https://docs.microsoft.com/en-us/azure/automation/automation-hybrid-runbook-worker>.
- ▶ Create an OMS workspace at <http://oms.microsoft.com>.
- ▶ For information about OMS alerts, see <https://docs.microsoft.com/en-us/azure/log-analytics/log-analytics-alerts>.
- ▶ Read about hybrid workers, including use cases and examples, at <https://docs.microsoft.com/en-us/azure/automation/automation-hybrid-runbook-worker>.
- ▶ Microsoft documents webhooks at <https://docs.microsoft.com/en-us/azure/automation/automation-webhooks>.
- ▶ For information using Service Map in OMS, see <https://docs.microsoft.com/en-us/azure/operations-management-suite/operations-management-suite-service-map>.
- ▶ Creating and publishing a marketplace item is documented at <https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-create-and-publish-marketplace-item>.
- ▶ Download the Azure Gallery Packager from <http://www.aka.ms/azurestackmarketplaceitem>.
- ▶ Read about how to author the user interface (UI) for a marketplace item at <https://docs.microsoft.com/en-us/azure/azure-resource-manager/managed-application-createuidefinition-functions> and <https://docs.microsoft.com/en-us/azure/azure-resource-manager/managed-application-createuidefinition-elements>.
- ▶ Use the PowerShell Azure Stack Infrastructure Administration module, available at <https://github.com/Azure/AzureStack-Tools/tree/master/Infrastructure>, to perform Azure Stack management-related tasks with PowerShell.

Other Hybrid Cloud Resources

Microsoft of course is not the only organization to discuss hybrid cloud. A number of websites provide excellent resources for hybrid cloud. Following are several you may want to investigate:

- ▶ Find ARM schemas at <https://github.com/Azure/azure-resource-manager-schemas/tree/master/schemas/0.1.2-preview>. This version is current at the time of writing this book; be sure to check for new schemas periodically.
- ▶ Read how to create a SQL Server marketplace item at <https://azurystack.blog/2017/01/creating-an-application-deployment-gallery-item-sql-gallery-item/>.
- ▶ GitHub's portaldocs repository is at <https://github.com/Azure/portaldocs>.
- ▶ Check out the Elastic search offering, available on GitHub at <https://github.com/elastic/azure-marketplace>.
- ▶ Justin Beckwith takes you under the hood of the Modern Azure Portal at <http://jbeckwith.com/2014/09/20/how-the-azure-portal-works/>.
- ▶ Deploy the BGInfo VM extension to an existing VM using the ARM template at <https://github.com/Azure/AzureStack-QuickStart-Templates/tree/master/101-vm-windows-apply-extension-bginfo>.
- ▶ There are a number of custom script extension Windows examples in the Quick Start templates. For more information, see [https://github.com/Azure/AzureStack-QuickStart-Templates/tree/master/101-vm-windows-apply-extension-customscript-cmd](https://github.com/Azure/AzureStack-QuickStart-Templates/tree/master/101-vm-windows-apply-extension-custom-script-cmd) and <https://github.com/Azure/AzureStack-QuickStart-Templates/tree/master/101-vm-windows-apply-extension-customscript-pscmd>.
- ▶ To execute an external file, see the example at <https://github.com/Azure/AzureStack-QuickStart-Templates/tree/master/101-vm-windows-apply-extension-customscript-sf>.
- ▶ Use the script at <https://github.com/Azure/AzureStack-QuickStart-Templates/tree/master/101-vm-linux-apply-extension-customscript> to deploy the Custom Script extension to an existing Linux VM in an Azure Stack environment.
- ▶ Using out-of-the-box activities, a runbook can be triggered from a SharePoint workflow. <http://blog.ctglobalservices.com/automation/jgs/december-1st-azure-automation-triggering-a-webhook-from-a-sharepoint-workflow-using-out-of-the-box-activities/>.
- ▶ Use GridPro's EvOPS software at <https://www.gridprosoftware.com/products/evops> to turn the Azure Stack portal into a service catalog to submit incidents and check on incidents and service requests.

Blogs

Following are some blogs the authors have used. Some are more active than others, and new blogs seem to spring up overnight!

- ▶ MVP Ben Gelens publishes at <https://azurestack.blog>.
- ▶ Rick Claus, Director of Program Management on the Microsoft Azure Compute team, blogs as "The Regular IT Guy," at <https://regularitguy.com/>.
- ▶ Justin Beckwith blogs about Azure and related technologies at <http://jbeckwith.com/archive/#azure/>.
- ▶ Microsoft Azure's blog is at <https://azure.microsoft.com/en-us/blog/>.

Public Forums

If you need an answer to a question, the first place to check is the Microsoft public forums. A list of available TechNet forums is maintained at <https://social.technet.microsoft.com/forums/>. It is best to see if the question has already been posted before you ask it yourself!

- ▶ The Cloud Services (Web and Worker Roles) forum is at <https://social.technet.microsoft.com/Forums/en-US/home?forum=windowsazuredevelopment>.
- ▶ The Azure Storage forum is at <https://social.technet.microsoft.com/Forums/en-US/home?forum=windowsazuredata>.
- ▶ Access the Azure SQL Database forum at <https://social.technet.microsoft.com/Forums/en-US/home?forum=ssdsgtstarted>.
- ▶ The Azure Management Portal forum is at <https://social.technet.microsoft.com/Forums/en-US/home?forum=windowsazuremanagement>.
- ▶ Get your questions answered about Azure pricing and billing at <https://social.technet.microsoft.com/Forums/en-US/home?forum=windowsazurepurchasing>.
- ▶ The forum for web sites and virtual machines on Windows Server for hosting service providers is at <https://social.technet.microsoft.com/Forums/en-US/home?forum=websitemachinesonwinserver>.
- ▶ The Azure Active Directory Technet forum is at <https://social.technet.microsoft.com/Forums/en-US/home?forum=windowsazureaditpro>.
- ▶ For questions about the OMS Service Map, see <https://social.technet.microsoft.com/Forums/en-US/home?forum=servicemap>.
- ▶ Discussions about private cloud computing are at <https://social.technet.microsoft.com/Forums/en-US/home?forum=privatecloud>.

- ▶ Read about software as a service (SaaS) at <https://social.technet.microsoft.com/Forums/en-US/home?forum=saas>.
- ▶ The infrastructure as a service TechNet (IaaS) forum is at <https://social.technet.microsoft.com/Forums/en-US/home?forum=iaas>.
- ▶ Access the PaaS TechNet forum at <https://social.technet.microsoft.com/Forums/en-US/home?forum=paas>.

Utilities

Following are some utilities, both Microsoft and third party:

- ▶ Storage Explorer is a free graphical tool used to administer storage account in Azure or Azure Stack. Download it at www.storageexplorer.com. Several steps are necessary to set up a connection to Azure Stack, described at <https://docs.microsoft.com/en-us/azure/vs-azure-tools-storage-manage-with-storage-explorer>.
- ▶ Download Azure Developer tools from <https://azure.microsoft.com/en-gb/tools/>.
- ▶ Interested in using Visual Studio Code? Download it from <https://code.visualstudio.com/>.
- ▶ A template validator script for Azure Stack is available from <https://github.com/Azure/AzureStack-Tools/tree/master/TemplateValidator>.
- ▶ Semantic versions are described at <http://semver.org/>.