70 – 532 : Exam prep by - Vijay Mohire

Developing Microsoft Azure solutions – New syllabus

This document is intended as a study guide (non-commercial purpose) for Microsoft's 70-532 exam in accordance to new syllabus applicable from 2017 onwards. Care has been taken to make it accurate; however this may contain extra information and links that have copyrights and intellectual property owned by the respective website owners. Please use discretion in using these in your commercial works/projects. Author of this document is not responsible for any untoward incidents/loss or failure in exams or project work. Please consult me if you need further details or guidance in this regards; email me at: vijay_mohire@yahoo.com for any queries, assistance or to report broken links / suggestions

Official exam details

https://www.microsoft.com/en-in/learning/exam-70-532.aspx

Download new exam syllabus

http://download.microsoft.com/download/C/9/D/C9DB98B6-FDAC-44CE-B0F1-36E568CA4961/70-532 OD.pdf

Objective Domain - Create and manage Azure Resource Manager virtual machines (30-35%)

Deploy workloads on Azure Resource Manager (ARM) virtual machines (VMs)

Identify workloads that can and cannot be deployed; run workloads including Microsoft and Linux; create VMs

https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-authoring-templates

https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-overview

https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-deployment-model

https://azure.microsoft.com/en-in/resources/videos/deploy-a-windows-virtual-machine-with-azure-resource-manager-templates-and-powershell/

https://channel9.msdn.com/Blogs/Microsoft-IT-Showcase/Deploying-production-workloads-with-Azure-Resource-Manager

 $\frac{https://support.microsoft.com/en-us/help/2721672/microsoft-server-software-support-for-microsoft-azure-\\ \underline{virtual-machines}$

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-linux-quick-create-cli?toc=%2fazure%2fvirtual-machines%2flinux%2ftoc.json

https://msdn.microsoft.com/en-us/library/azure/dn495240.aspx#sectionSection3 - See other commands too

Perform configuration management

Automate configuration management by using PowerShell Desired State Configuration (DSC) and VM Agent (custom script extensions); configure VMs using a configuration management tool such as Puppet or Chef; enable remote debugging

https://docs.microsoft.com/en-us/azure/automation/automation-dsc-getting-started

https://docs.microsoft.com/en-us/azure/automation/automation-dsc-onboarding

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-extensions-dsc-template

https://azure.microsoft.com/en-us/updates/automation-full-azure-resource-manager-powershell-cmdlet-support/

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-extensions-customscript

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-classic-inject-custom-data

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-ps-manage?toc=%2fazure%2fvirtual-machines%2fwindows%2ftoc.json

https://docs.microsoft.com/en-us/powershell/resourcemanager/azurerm.automation/v1.0.12/Register-AzureRmAutomationDscNode?redirectedfrom=msdn

https://azure.microsoft.com/en-us/blog/introduction-to-remote-debugging-on-azure-web-sites/

https://docs.microsoft.com/en-us/azure/vs-azure-tools-intellitrace-debug-published-cloud-services

Puppet /Chef

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-extensions-configuration-samples

Configure ARM VM networking

Configure static IP addresses, Network Security Groups (NSGs), DNS, User Defined Routes (UDRs), external and internal load balancing with HTTP and TCP health probes, public IPs, firewall rules, and direct server return; design and implement Application Gateway

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-static-private-ip-arm-ps

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-static-private-ip-arm-pportal

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-deploy-static-pip-arm-template - IMP

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-multiple-ip-addresses-template

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-create-nsg-arm-template

https://azure.microsoft.com/en-us/blog/announcing-reverse-dns-for-azure-cloud-services/

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-linux-static-dns-name-resolution-for-linux-on-azure

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-create-udr-arm-template

https://azure.microsoft.com/en-us/blog/microsoft-azure-load-balancing-services/

https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-custom-probe-overview

https://msdn.microsoft.com/en-us/library/azure/mt445501.aspx

https://azure.microsoft.com/en-us/blog/instance-level-public-ip-address/

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-firewall-configure

https://blogs.msdn.microsoft.com/tomholl/2013/05/07/using-windows-firewall-to-restrict-access-to-windows-azure-instances/

https://social.msdn.microsoft.com/Forums/azure/en-US/beac8f10-5ddb-4958-99c9-898d1dcf0315/azure-load-balance-and-dsr-direct-server-return?forum=WAVirtualMachinesVirtualNetwork

https://kvaes.wordpress.com/2016/08/18/azure-what-does-the-direct-server-return-option-do-for-a-load-balancer/

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-classic-ps-sql-int-listener?toc=%2fazure%2fvirtual-machines%2fwindows%2fclassic%2ftoc.json

https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-introduction https://azure.microsoft.com/en-us/resources/templates/101-application-gateway-create/

Scale ARM VMs

Scale up and scale down VM sizes; deploy ARM VM Scale Sets (VMSS); configure ARM VMSS auto-scale

https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-how-to-scale-portal

https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-vs-create

https://azure.microsoft.com/en-us/resources/templates/201-vmss-automation-dsc/

https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-vs-create

https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-autoscale-overview

https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-vertical-scale-reprovision

https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-troubleshoot

https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/insights-advanced-autoscale-virtual-machine-scale-sets

Design and implement ARM VM storage

Configure disk caching; plan for storage capacity; configure shared storage using Azure File service; configure geo-replication; implement ARM VMs with Standard and Premium Storage

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-sql-server-storage-configuration

https://azure.microsoft.com/en-us/resources/templates/301-2fe-linux-lb80-ssh-1be-win-nsg-rdp-datadisk-ssd/

https://docs.microsoft.com/en-us/azure/best-practices-caching

https://docs.microsoft.com/en-us/azure/redis-cache/cache-redis-cache-arm-provision

File storage

https://blogs.technet.microsoft.com/uspartner_ts2team/2014/06/09/setting-up-a-file-share-for-the-new-azure-file-service/

https://docs.microsoft.com/en-us/azure/storage/storage-dotnet-how-to-use-files

https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-template-storage

https://azurestack.eu/2015/06/microsoft-azure-stack-storage-explained-part-ii/

https://govindkanshi.wordpress.com/2015/05/03/azure-arm-a-journey-to-understand-basics/

http://stackoverflow.com/questions/36508719/arm-template-to-create-storage-with-geo-replication

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-classic-sql-server-premium-storage

https://docs.microsoft.com/en-us/azure/storage/storage-premium-storage

http://www.codeisahighway.com/how-to-create-a-virtual-machine-from-a-custom-image-using-an-arm-template/

https://www.florinloghiade.ro/2016/01/powershell-scripts-to-add-remove-data-disks-on-azure-vms/

Monitor ARM VMs

Configure ARM VM monitoring; configure alerts; configure diagnostic and monitoring storage location

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-extensions-diagnostics-template

https://blogs.msdn.microsoft.com/cloud_solution_architect/2016/02/20/monitoring-and-alerting-in-azure/

https://msdn.microsoft.com/en-us/library/azure/dn931945.aspx

https://azure.microsoft.com/en-us/blog/windows-azure-virtual-machine-monitoring-with-wad-extension/

https://docs.microsoft.com/en-us/azure/storage/storage-monitor-storage-account

https://docs.microsoft.com/en-us/azure/storage/storage-monitoring-diagnosing-troubleshooting

https://docs.microsoft.com/en-us/azure/app-service-web/web-sites-monitor

https://docs.microsoft.com/en-us/azure/app-service-web/web-sites-enable-diagnostic-log#streamlogs

https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/insights-alerts-portal

Manage ARM VM availability

Configure multiple ARM VMs in an availability set for redundancy; configure each application tier into separate availability sets; combine the Load Balancer with availability sets

https://azure.microsoft.com/en-us/resources/templates/201-vm-copy-index-loops/

https://www.opsgility.com/blog/windows-azure-powershell-reference-guide/understanding configuring availability sets powershell/

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-manage-availability

Objective Domain: Design and implement a storage and data strategy (25-30%)

Implement Azure Storage blobs and Azure Files

Read data; change data; set metadata on a container; store data using block and page blobs; stream data using blobs; access blobs securely; implement async blob copy; configure Content Delivery Network (CDN); design blob hierarchies; configure custom domains; scale blob storage

https://code.msdn.microsoft.com/Windows-Azure-Multi-Tier-eadceb36 - Download code samples

https://docs.microsoft.com/en-us/azure/storage/

https://docs.microsoft.com/en-us/azure/storage/storage-properties-metadata

http://www.garethjones294.com/microsoft-azure-storage-explained/http://stackoverflow.com/questions/29079268/differences-between-azure-block-blob-and-page-blob

https://docs.microsoft.com/en-us/rest/api/storageservices/fileservices/deciding-when-to-use-azure-blobs-azure-files--or-azure-data-disks

https://docs.microsoft.com/en-us/azure/storage/storage-dotnet-how-to-use-blobs

https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-define-inputs

https://docs.microsoft.com/en-us/azure/storage/storage-manage-access-to-resources

http://www.dotnetcurry.com/windows-azure/901/protect-azure-blob-storage-shared-access-signature

https://blogs.msdn.microsoft.com/windowsazurestorage/2012/06/12/introducing-asynchronous-cross-account-copy-blob/

http://stackoverflow.com/questions/14152087/copying-one-azure-blob-to-another-blob-in-azure-storage-client-2-0

https://gist.github.com/sdurandeu/9842815

http://www.developer.com/net/understanding-windows-azure-cdn-service.html

https://docs.kentico.com/k10/running-kentico-on-microsoft-azure/configuring-azure-cdn

http://devslice.net/2015/01/azure-blob-storage-and-storage-hierarchy/

https://www.codeproject.com/articles/597939/modelingplusaplusdirectoryplusstructureplusonplusa

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-application-proxy-custom-domains

https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-custom-domain-name

https://docs.microsoft.com/en-us/azure/storage/storage-performance-checklist

https://docs.microsoft.com/en-us/azure/storage/storage-enable-and-view-metrics

Implement Azure storage tables and queues

Implement CRUD with and without transactions; design and manage partitions; query using OData; scale tables and partitions; add and process queue messages; retrieve a batch of messages; scale queues

https://docs.microsoft.com/en-us/azure/storage/storage-dotnet-how-to-use-queues

https://docs.microsoft.com/en-us/azure/storage/storage-table-design-guide - IMP

https://docs.microsoft.com/en-us/rest/api/storageservices/fileservices/Queue-Service-Concepts?redirectedfrom=MSDN

https://docs.microsoft.com/en-us/rest/api/storageservices/fileservices/querying-tables-and-entities

https://azure.microsoft.com/en-us/resources/samples/?service=storage&term=queue

https://www.simple-talk.com/cloud/cloud-data/an-introduction-to-windows-azure-table-storage/

https://docs.microsoft.com/en-us/rest/api/storageservices/fileservices/designing-a-scalable-partitioning-strategy-for-azure-table-storage

https://docs.microsoft.com/en-us/azure/storage/storage-scalability-targets

https://www.simple-talk.com/cloud/platform-as-a-service/microsoft-azure-storage-queues-part-1-getting-started/

https://www.simple-talk.com/cloud/platform-as-a-service/microsoft-azure-storage-queues-part-2-hands-on-working-with-queues/

http://www.c-sharpcorner.com/UploadFile/fe6121/deep-dive-into-azure-storage-queue-vs-azure-service-bus-queu/

https://www.microsoftpressstore.com/articles/article.aspx?p=2315377&seqNum=3

Manage access and monitor storage

Generate shared access signatures, including client renewal and data validation; create stored access policies; regenerate storage account keys; configure and use Cross-Origin Resource Sharing (CORS); set retention policies and logging levels; analyze logs

https://docs.microsoft.com/en-us/azure/storage/storage-dotnet-shared-access-signature-part-1

https://docs.microsoft.com/en-us/rest/api/storageservices/fileservices/establishing-a-stored-access-policy

https://docs.microsoft.com/en-us/rest/api/media/management/regenerate-media-services-primary-accountkey

https://docs.microsoft.com/en-us/rest/api/storageservices/fileservices/cross-origin-resource-sharing--cors-support-for-the-azure-storage-services

https://docs.microsoft.com/en-us/rest/api/storageservices/fileservices/setting-a-storage-analytics-data-retention-policy

https://docs.microsoft.com/en-us/azure/log-analytics/log-analytics-azure-storage

https://docs.microsoft.com/en-us/rest/api/storageservices/fileservices/enabling-storage-logging-and-accessing-log-data

Implement Azure SQL Databases

Choose the appropriate database tier and performance level; configure and perform point in time recovery; enable geo-replication; import and export data and schema; scale Azure SQL databases

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-scale-up

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-service-tiers

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-point-in-time-restore

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-geo-replication-powershell

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-cloud-migrate

https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-overview-load

https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-manage-compute-overview

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-elastic-scale-introduction

http://www.jamesserra.com/archive/2016/02/scaling-azure-sql-database/

Implement Azure DocumentDB

Create databases and collections; query documents; run DocumentDB queries

https://docs.microsoft.com/en-us/azure/documentdb/documentdb-create-collection

https://docs.microsoft.com/en-us/azure/documentdb/documentdb-get-started

https://docs.microsoft.com/en-in/azure/documentdb/

Implement Redis caching

Choose a cache tier; implement data persistence; implement security and network isolation; tune cluster performance

https://docs.microsoft.com/en-us/azure/redis-cache/cache-redis-cache-arm-provision

https://docs.microsoft.com/en-us/azure/redis-cache/cache-configure

https://docs.microsoft.com/en-us/azure/redis-cache/cache-faq

https://azure.microsoft.com/en-in/services/cache/

https://docs.microsoft.com/en-us/azure/redis-cache/cache-how-to-premium-persistence

https://docs.microsoft.com/en-us/azure/redis-cache/cache-dotnet-how-to-use-azure-redis-cache

http://www.c-sharpcorner.com/article/azure-redis-cache-enhanced-security-and-network-isolation/

https://docs.microsoft.com/en-us/azure/redis-cache/cache-how-to-premium-vnet

https://channel9.msdn.com/Shows/Azure-Friday/Increase-performance-through-Redis-Cluster-in-Azure-Redis-Cache

Implement Azure Search

Create a service index; add data; search an index; handle search results

https://docs.microsoft.com/en-us/azure/search/search-howto-dotnet-sdk

http://gunnarpeipman.com/2016/07/writing-simple-rest-client-for-azure-search/

https://docs.microsoft.com/en-us/rest/api/searchservice/create-index

https://docs.microsoft.com/en-us/azure/search/search-create-index-portal

https://docs.microsoft.com/en-us/azure/search/search-what-is-data-import

https://docs.microsoft.com/en-us/azure/search/search-import-data-rest-api

https://docs.microsoft.com/en-us/rest/api/searchservice/index-operations

https://docs.microsoft.com/en-us/rest/api/searchservice/search-documents

https://docs.microsoft.com/en-us/azure/search/search-pagination-page-layout

https://docs.microsoft.com/en-us/azure/search/search-guery-overview

Objective Domain: Manage identity, application, and network services (15-20%)

Integrate an app with Azure Active Directory (AAD)

Develop apps that use WS-federation, OAuth, and SAML-P endpoints; query the directory by using graph API

https://www.identityguy.com/articles/2013/6/4/a-look-at-azure-ads-web-sign-in-endpoints.html - Good Intro.

https://msdn.microsoft.com/en-us/library/dn633593.aspx - Old and good

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-integrating-applications

https://docs.microsoft.com/en-us/azure/app-service-mobile/app-service-mobile-how-to-configure-active-directory-authentication

https://azure.microsoft.com/en-us/resources/samples/active-directory-dotnet-webapp-wsfederation/

https://docs.microsoft.com/en-us/azure/app-service-web/web-sites-dotnet-lob-application-adfs

https://azure.microsoft.com/en-us/resources/samples/active-directory-webapp-webapi-multitenant-openidconnect-aspnetcore/

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-saml-protocol-reference

https://github.com/Azure-Samples/active-directory-dotnet-graphapi-web

https://github.com/Azure-Samples/active-directory-dotnet-webapp-openidconnect

Design and implement a communication strategy

Implement Hybrid Connections to access data sources on-premises; leverage S2S VPN and ExpressRoute to connect to an on-premises infrastructure

https://docs.microsoft.com/en-us/azure/app-service-web/web-sites-hybrid-connection-get-started

https://technet.microsoft.com/en-us/library/dn786406.aspx

https://docs.microsoft.com/en-us/azure/expressroute/expressroute-circuit-peerings

https://docs.microsoft.com/en-us/azure/expressroute/expressroute-introduction

Design and implement a messaging strategy

Develop and scale messaging solutions using service bus queues, topics, relays, event hubs, and notification hubs; monitor service bus queues, topics, relays, event hubs and notification hubs

https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-dotnet-multi-tier-app-using-service-busqueues

https://docs.microsoft.com/en-us/azure/service-bus-relay/service-bus-dotnet-hybrid-app-using-service-bus-relay

https://azure.microsoft.com/en-us/resources/videos/messaging-at-scale-with-service-bus-queues-and-topics/

https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-queues-topics-subscriptions

https://azure.microsoft.com/en-in/blog/important-changes-coming-for-service-bus-and-events-hubs/

http://spr.com/azure-integration-part-i-reasons-for-azure-storage-queue-service-bus-queue-topicssubscription-and-relays/

https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-messaging-overview

https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-create-queues

https://docs.microsoft.com/en-us/azure/notification-hubs/notification-hubs-windows-store-dotnet-get-started-wns-push-notification

https://docs.microsoft.com/en-us/azure/notification-hubs/notification-hubs-push-notification-overview

https://docs.microsoft.com/en-us/azure/notification-hubs/notification-hubs-deploy-and-manage-powershell

https://azure.microsoft.com/en-in/services/event-hubs/

https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-what-is-event-hubs

Develop apps that use AAD B2C and AAD B2B

Design and implement .NET MVC, Web API, and Windows Desktop apps that leverage social identity provider authentication, including Microsoft account, Facebook, Google+, Amazon, and LinkedIn; leverage AAD B2B to design and implement applications that support partner-managed identities

https://www.asp.net/identity

https://docs.microsoft.com/en-us/azure/app-service-web/web-sites-dotnet-deploy-aspnet-mvc-app-membership-oauth-sql-database

https://www.asp.net/identity/overview/getting-started/aspnet-identity-recommended-resources

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-b2b-compare-external-identities

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-b2b-collaboration-overview

https://blogs.partner.microsoft.com/mpn/using-azure-to-provide-identity-capabilities/

Objective Domain: Design and Implement Azure PaaS Compute and Web and Mobile Services (25-30%)

Design Azure App Service Web Apps

Define and manage App Service plans; configure Web Apps settings, certificates, and custom domains; manage Web Apps by using the API, Azure PowerShell, and Xplat-CLI; implement diagnostics, monitoring, and analytics; implement web jobs; design and configure Web Apps for scale and resilience

https://docs.microsoft.com/en-us/azure/app-service/azure-web-sites-web-hosting-plans-in-depth-overview

https://azure.microsoft.com/en-in/pricing/details/app-service/plans/

https://github.com/Microsoft/azure-docs/blob/master/articles/app-service-web/web-sites-configure.md

http://blogs.perficient.com/microsoft/2016/03/azure-arm-template-define-web-app-application-settings/

https://blogs.msdn.microsoft.com/appserviceteam/2016/05/24/deploying-azure-web-app-certificate-through-key-vault/

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1111103./	/ 4003.11110103011.001	ii/ Cii us/azuic	/ CIUUU SCI VICES	i ciouu scivices	ccits cicati

https://azure.microsoft.com/en-us/blog/enabling-client-certificate-authentication-for-an-azure-web-app/

https://docs.microsoft.com/en-us/azure/app-service-web/web-sites-custom-domain-name

https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-custom-domain-name-portal

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-application-proxy-custom-domains

https://docs.microsoft.com/en-us/azure/app-service-web/web-sites-manage-azure-website

https://docs.microsoft.com/en-us/azure/app-service-web/app-service-web-app-azure-resource-manager-powershell

https://docs.microsoft.com/en-us/azure/app-service-web/app-service-web-app-azure-resource-manager-xplat-cli

https://docs.microsoft.com/en-us/azure/azure-resource-manager/xplat-cli-azure-resource-manager

https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-rest-api-walkthrough

https://docs.microsoft.com/en-us/azure/app-service-web/app-service-web-nodejs-best-practices-and-troubleshoot-guide

https://docs.microsoft.com/en-us/azure/app-service-web/web-sites-monitor

https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-how-to-monitor

https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/insights-alerts-portal

https://docs.microsoft.com/en-us/azure/application-insights/app-insights-azure-web-apps

https://azure.microsoft.com/en-us/resources/templates/101-webappazure-oms-monitoring/

https://docs.microsoft.com/en-us/azure/app-service-web/websites-dotnet-webjobs-sdk-get-started

https://docs.microsoft.com/en-us/azure/app-service-web/web-sites-create-web-jobs

http://www.hanselman.com/blog/IntroducingWindowsAzureWebJobs.aspx

https://crpietschmann.github.io/Azure-70-532-Practice-Test/?1.5

https://docs.microsoft.com/en-us/azure/app-service-web/web-sites-scale

Implement Azure Functions

Create Azure Functions; implement a web hook Function; create an event processing Function; implement an Azure-connected Function

https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-first-azure-function

https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-a-web-hook-or-api-function

https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-an-event-processing-function

https://azure.microsoft.com/en-in/resources/videos/create-an-event-processing-azure-function/

https://github.com/Microsoft/azure-docs/blob/master/articles/azure-functions/functions-create-an-azure-connected-function.md

https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-an-azure-connected-function

Implement API Management

Create managed APIs; configure API Management policies; protect APIs with rate limits; add caching to improve performance; monitor APIs; customize the Developer Portal

https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-create-apis

https://docs.microsoft.com/en-us/azure/api-management/

https://docs.microsoft.com/en-us/azure/api-management/api-management-policy-reference

https://msdn.microsoft.com/en-us/library/azure/dn894080.aspx

https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-product-with-rules

https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-overview

https://docs.microsoft.com/en-us/azure/api-management/api-management-customize-portal

https://docs.microsoft.com/en-us/azure/api-management/api-management-developer-portal-templates

Design Azure App Service API Apps

Create and deploy API Apps; automate API discovery by using the Swashbuckle; use Swagger API metadata to generate client code for an API app; monitor API Apps

https://github.com/cynthn/azure-content/blob/master/articles/app-service-api/app-service-dotnet-deploy-api-app.md

https://docs.microsoft.com/en-us/azure/app-service-api/app-service-api-dotnet-get-started

https://docs.microsoft.com/en-us/azure/app-service/app-service-deployment-readme?toc=%2fazure%2fapp-service-api%2ftoc.json

https://github.com/domaindrivendev/Swashbuckle

https://blogs.msdn.microsoft.com/cesardelatorre/2016/12/05/generating-swagger-description-metadata-from-your-asp-net-core-web-apis-with-swashbuckle/

https://dannyvanderkraan.wordpress.com/2016/09/09/asp-net-core-1-0-web-api-automatic-documentation-with-swagger-and-swashbuckle/

Develop Azure App Service Logic Apps

Create a Logic App connecting SaaS services; create a Logic App with B2B capabilities; create a Logic App with XML capabilities; trigger a Logic App from another app; create custom and long-running actions; monitor Logic Apps

https://docs.microsoft.com/en-us/azure/app-service-logic/app-service-logic-create-a-logic-app

https://github.com/theja0473/My-Lib-

<u>Books/blob/master/MicroSoft%20Azure%20Documentation/Create%20a%20new%20logic%20app%20connecting%20SaaS%20services.docx</u>

https://docs.microsoft.com/en-us/azure/app-service-logic/app-service-logic-enterprise-integration-overview

https://docs.microsoft.com/en-us/azure/app-service-logic/app-service-logic-enterprise-integration-b2b

http://stackoverflow.com/questions/36154314/how-to-process-xml-in-azure-logic-app

https://docs.microsoft.com/en-us/azure/app-service-logic/app-service-logic-custom-hosted-api

https://docs.microsoft.com/en-us/azure/app-service-logic/app-service-logic-examples-and-scenarios

https://github.com/Microsoft/azure-docs/blob/master/articles/app-service-logic/app-service-logic-examples-and-scenarios.md

https://docs.microsoft.com/en-us/azure/app-service-logic/app-service-logic-create-api-app

https://blogs.msdn.microsoft.com/logicapps/2016/02/15/long-running-tasks-in-logic-apps/

https://docs.microsoft.com/en-us/azure/app-service-logic/app-service-logic-monitor-your-logic-apps

Develop Azure App Service Mobile Apps

Create a Mobile App; add offline sync to a Mobile App; add authentication to a Mobile App; add push notifications to a Mobile App

https://docs.microsoft.com/en-us/azure/app-service-mobile/app-service-mobile-value-prop

https://docs.microsoft.com/en-us/azure/app-service-mobile/app-service-mobile-offline-data-sync

https://docs.microsoft.com/en-us/azure/app-service-mobile/app-service-mobile-android-get-started-offline-data

https://docs.microsoft.com/en-us/azure/app-service-mobile/app-service-mobile-auth

https://docs.microsoft.com/en-us/azure/app-service-mobile/app-service-mobile-android-get-started-push

Design and implement Azure Service Fabric apps

Create a Service Fabric application; build an Actors-based service; add a web front-end to a Service Fabric application; monitor and diagnose services; migrate apps from cloud services; create, secure, upgrade, and scale Service Fabric Cluster in Azure; scale a Service Fabric app

https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-create-your-first-application-in-visual-studio

https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-reliable-actors-introduction

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https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-diagnostics-how-to-monitor-and-diagnose-services-locally

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https://docs.microsoft.com/en-us/powershell/servicefabric/vlatest/servicefabric

https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-cluster-scale-up-down



Extra links based on study material Q&A

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https://docs.microsoft.com/en-us/azure/storage/storage-dotnet-how-to-use-tables

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Using Storage Queue

 $\frac{https://msdn.microsoft.com/library/azure/microsoft.windowsazure.storage.queue.cloudqueue.getmessage.as}{px}$

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http://stackoverflow.com/questions/12801076/cloudqueue-getmessage-vs-getmessages

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Datacache:

https://thuru.net/2014/04/01/windows-azure-caching/

https://msdn.microsoft.com/en-us/library/microsoft.applicationserver.caching.datacache.aspx

https://docs.microsoft.com/en-us/azure/cache/cache-dotnet-how-to-use-in-role

http://www.wou.edu/~rvitolo06/WATK/Labs/BuildingAppsWithCacheService/Lab.html/html/DocSet_bf91fd58-81ea-4a89-b06e-1214b0f62ed0.html

Blobs

https://msdn.microsoft.com/en-us/library/azure/jj732165.aspx

http://azure.github.io/azure-storage-android/com/microsoft/azure/storage/blob/CloudBlobContainer.html

http://stackoverflow.com/questions/24312527/azure-blob-storage-downloadtobytearray-vs-downloadtostream

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http://stackoverflow.com/questions/24312527/azure-blob-storage-downloadtobytearray-vs-downloadtostream

Website Power shell

https://blogs.msdn.microsoft.com/harikharan/2015/01/01/swap-slots-in-azure-web-site-when-there-are-2-or-more-staging-slots-using-azure-powershell/

https://github.com/Azure/azure-powershell/issues/1736

https://azure.microsoft.com/nl-nl/documentation/articles/web-sites-staged-publishing/

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https://docs.kentico.com/k9/running-kentico-on-microsoft-azure/storing-cache-and-session-state-data-in-azure-environment

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queue/blob/master/WebJobReadFromQueue/bin/Debug/Microsoft.WindowsAzure.Jobs.Host.xml

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https://blog.maartenballiauw.be/post/2015/12/23/disabling-session-affinity-in-azure-app-service-web-apps-websites.html - IMP

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https://github.com/Microsoft/Windows-universal-samples/tree/master/Samples/Notifications

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https://github.com/Microsoft/azure-docs/blob/master/articles/redis-cache/cache-dotnet-how-to-use-azure-redis-cache.md

http://codereview.stackexchange.com/questions/83262/redis-cache-data-source-code-retrieve-set-invalidate-actions

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https://docs.microsoft.com/en-us/azure/active-directory/active-directory-protocols-oauth-code

https://github.com/Microsoft/azure-docs/blob/master/articles/guidance/guidance-multitenant-identity-authenticate.md

https://msdn.microsoft.com/library/azure/jj631641.aspx?f=255&MSPPError=-2147217396

https://msdn.microsoft.com/en-us/library/hh454950.aspx
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https://docs.microsoft.com/en-us/azure/active-directory/develop/active-directory-graph-api

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https://github.com/Azure/azure-storage-net/blob/master/Lib/Common/CloudStorageAccount.cs

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http://stackoverflow.com/questions/22917846/windows-azure-cloudstorageaccount-parse-error

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https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-extensions-features - IMP

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http://www.thomasmaurer.ch/2016/05/windows-sysprep-for-virtual-machines/

https://technet.microsoft.com/en-us/library/cc721973(v=ws.10).aspx

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https://docs.microsoft.com/en-us/powershell/servicemanagement/azure.service/v2.1.0/set-azurerole

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///////END //////////

Code samples: https://azure.microsoft.com/en-us/resources/samples/?service=storage&term=queue

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