70 – 533 : Exam prep by - Vijay Mohire

Implementing Microsoft Azure Infrastructure Solutions- New syllabus

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Official exam details
https://www.microsoft.com/en-in/learning/exam-70-533.aspx

Download new exam syllabus
http://download.microsoft.com/download/6/D/C/6DCF56B9-ED81-497D-9701-21C4DDCEB9C5/70-533_OD.pdf

1. **Objective Domain - Implement Web Apps (15-20%)**

1.1.Deploy Web Apps.

This objective may include but is not limited to: Define deployment slots; roll back deployments, configure and deploy packages, deploy web jobs, schedule web jobs

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

http://blog.amitapple.com/post/2014/11/azure-websites-slots/#.WHHFztJ97IU

https://sunithamk.wordpress.com/2015/10/23/faq-deployment-slots-with-azure-web-apps/

https://www.swc.com/blog/cloud/deployments-azure-microsoft-cloud

http://stackoverflow.com/questions/13769265/how-to-roll-back-a-windows-azure-cloud-service-deployment

http://docs.octopusdeploy.com/display/OD/Deploying+a+package+to+an+Azure+Web+App

https://www.visualstudio.com/en-us/docs/release/examples/azure/azure-web-apps-from-build-and-release-hubs

http://fsharp.github.io/FAKE/azurewebjobs.html

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

http://docs.octopusdeploy.com/display/OD/Deploying+Web+Jobs

http://www.schaeflein.net/azure-webjobs-free-tier/

http://blog.davidebbo.com/2015/05/scheduled-webjob.html

1.2. Configure Web Apps.

This objective may include but is not limited to: Configure app settings, connection strings, handlers, and virtual directories; configure certificates, custom domains, and traffic manager; configure SSL bindings and runtime configurations; manage Web Apps by using Azure PowerShell and Xplat-CLI

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

https://www.visualstudio.com/en-us/docs/release/examples/azure/change-config-azure-webapps

https://blogs.perficient.com/microsoft/2016/03/azure-arm-template-define-web-app-connection-strings/

https://github.com/aspnet/Home/issues/1203

http://docs.octopusdeploy.com/display/OD/IIS+Websites+and+Application+Pools

https://docs.microsoft.com/en-us/azure/app-service-web/web-sites-migration-from-iis-server

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

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

https://docs.microsoft.com/en-us/azure/app-service-web/web-sites-purchase-ssl-web-site

https://azure.microsoft.com/en-in/resources/templates/201-web-app-custom-domain/

http://www.ayushrathi.com/configuring-a-custom-domain-name-for-web-app-azure-portal/

https://docs.microsoft.com/en-us/azure/app-service-web/web-sites-purchase-ssl-web-site

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

https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-configure-routing-method

https://docs.microsoft.com/en-us/azure/app-service-web/web-sites-configure-ssl-certificate

https://blogs.msdn.microsoft.com/plankytronixx/2015/05/22/azure-web-sitesweb-apps-and-ssl/

http://ruslany.net/2016/10/using-powershell-to-manage-azure-web-app-deployment-slots/

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

https://github.com/Azure/azure-xplat-cli

1.3 Configure diagnostics, monitoring, and analytics.

This objective may include but is not limited to: Retrieve diagnostics data; view streaming logs; configure endpoint monitoring, alerts, and diagnostics; monitor web app resources

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

https://michaelcollier.wordpress.com/tag/diagnostics/

https://docs.microsoft.com/en-us/azure/app-service-web/web-sites-streaming-logs-and-console

https://azure.microsoft.com/en-in/resources/videos/azure-web-app-log-streaming-with-scott-hanselman/

https://github.com/projectkudu/kudu/wiki/Diagnostic-Log-Stream

http://www.c-sharpcorner.com/article/azure-app-service-configure-endpoint-monitoring/

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

http://www.infocodify.com/azure_apps/monitoring_web_apps

1.4. Configure scale and resilience.

This objective may include but is not limited to: Configure auto-scale using built-in and custom schedules; configure by metric; change the size of an instance

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

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

https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/insights-how-to-scale

http://blog.nwcadence.com/azure-website-autoscaling20150106/

https://blogs.msdn.microsoft.com/devschool/2015/05/24/azure-how-to-auto-scale-your-web-apps-web-sites/

https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/insights-autoscale-common-metrics

https://www.troyhunt.com/understanding-azure-website-auto-scale/

https://docs.microsoft.com/en-us/azure/app-service-web/app-service-web-scale-a-web-app-in-an-app-service-environment

http://samspoerle.com/auto-scaling-azure-web-apps-vertically-increase-size-and-decrease-size/

1.5. Manage App Service plans.

This objective may include but is not limited to: Create App Service plans; migrate Web Apps between App Service plans; create a web app within an App Service plan

http://www.bananagunprogramming.com/?p=154

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

https://docs.microsoft.com/en-us/azure/app-service-web/app-service-move-resources

http://stackoverflow.com/questions/34708731/azure-moving-an-app-service-to-another-existing-app-service-plan

https://docs.microsoft.com/en-us/azure/app-service-web/app-service-web-how-to-create-a-web-app-in-an-ase

2. Objective Domain - Implement Virtual Machines (15-20%)

2.1.Deploy workloads on Azure Virtual Machines (VMs).

This objective may include but is not limited to: Identify supported Microsoft workloads; deploy and connect to a Linux VM; create VMs

https://support.microsoft.com/en-us/kb/2721672

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-linux-classic-connect-vms

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-linux-quick-create-portal

http://azure.microsoft.com/en-us/documentation/articles/virtual-machines-linux-how-to-log-on/

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

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-classic-createportal

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-creation-choices

2.2.Implement images and disks.

This objective may include but is not limited to: Create specialized and generalized images for Windows and Linux; copy images between storage accounts and subscriptions; upload VHDs

http://azure.microsoft.com/blog/2014/04/14/vm-image-blog-post/

http://azure.microsoft.com/blog/2014/05/01/vm-image-powershell-how-to-blog-post/

http://azure.microsoft.com/en-us/documentation/articles/virtual-machines-create-upload-vhd-windows-server/

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-create-vm-generalized

http://www.codeisahighway.com/how-to-capture-your-own-custom-virtual-machine-image-under-azure-resource-manager-api/

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-linux-classic-about-images

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-classic-about-images

http://stackoverflow.com/questions/36599113/capturing-specialized-image-of-virtual-machine-created-on-azure-resource-manag

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-vhd-copy

https://azure.microsoft.com/en-in/blog/migrate-azure-virtual-machines-between-storage-accounts/

https://blogs.msdn.microsoft.com/laurelle/2015/10/01/how-to-move-azure-vm-between-subscriptions/

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-classic-createupload-vhd

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-linux-classic-create-upload-vhd

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-prepare-for-upload-vhd-image

2.3. Perform configuration management.

This objective may include but is not limited to: Automate configuration management by using PowerShell Desired State Configuration and custom script extensions; enable puppet and chef extensions

https://azure.microsoft.com/en-us/blog/vm-agent-and-extensions-part-1/

https://azure.microsoft.com/en-us/blog/vm-agent-and-extensions-part-2/

https://azure.microsoft.com/en-us/blog/automating-vm-customization-tasks-using-custom-script-extension/

https://azure.microsoft.com/en-in/blog/what-why-how-azure-automation-desired-state-configuration/

http://techieespoint.in/powershell-dsc-azure-vm-configuration-management/

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

https://azure.microsoft.com/en-in/blog/automating-vm-customization-tasks-using-custom-script-extension/

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

https://azure.microsoft.com/en-in/blog/azure-virtual-machines-using-chef-puppet-and-docker-for-managing-linux-vms/

https://stuartpreston.net/enabling-the-chef-vm-extension-on-a-microsoft-azure-vm-using-powershell-ec8e877e61e8#.iw9oj3e18

https://cmatskas.com/learn-how-to-harness-the-power-of-azure-virtual-machine-extensions/

2.4. Configure VM networking.

This objective may include but is not limited to: Settings include reserved IP addresses, access control lists, internal name resolution, DNS at the virtual network level, load balancing endpoints, HTTP and TCP health probes, public IPs, firewall rules, direct server return, and Keep Alive

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-reserved-public-ip

http://windowsitpro.com/azure/use-reserved-ip-address-cloud-service-and-vm-virtual-network

https://books.google.co.in/books?id=BF-5BgAAQBAJ&pg=PA119&lpg=PA119&dq=VM+networking+%2B+access+control+lists&source=bl&ots=pY50yylKZO&sig=pbzsl6tm_yj7wSmkC3Z1MI3EWco&hl=en&sa=X&ved=0ahUKEwjO69CJqLTRAhULNo8KHU7DBW4Q6AEIWzAL#v=onepage&q=VM%20networking%20%2B%20access%20control%20lists&f=false

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-acl

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-name-resolution-for-vms-and-role-instances

http://stackoverflow.com/questions/32190426/how-do-i-use-the-default-internal-azure-dns-to-resolve-dns-names-of-worker-rol

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

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

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

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

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-manage-dns-in-vnet

https://docs.microsoft.com/en-us/azure/hdinsight/hdinsight-hbase-geo-replication-configure-dns

http://cloudmonix.com/blog/how-to-create-a-dns-server-for-your-azure-virtual-network/

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-name-resolution-for-vms-and-role-instances

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-classic-setup-endpoints

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

http://techgenix.com/load-balancers-microsoft-azure/

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

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-public-ip-within-vnet

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

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-nsg-quickstart-portal

https://blogs.msdn.microsoft.com/igorpag/2016/05/14/azure-network-security-groups-nsg-best-practices-and-lessons-learned/

http://azureblogger.com/2015/08/understanding-firewall-options-in-microsoft-azure/

http://vunvulearadu.blogspot.in/2013/11/vm-and-load-balancer-direct-server.html

https://github.com/Azure/azure-xplat-cli/issues/1705

https://kemptechnologies.com/in/white-papers/what-is-direct-server-return/

https://github.com/Microsoft/azure-docs/blob/master/articles/load-balancer/load-balancer-tcp-idle-timeout.md

https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-tcp-idle-timeout

2.5. Configure VM resiliency.

This objective may include but is not limited to: Scale up and scale down VM sizes; auto-scale; configure availability sets

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

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

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

https://michaelmckeownblog.wordpress.com/2015/05/26/azure-scale-units-and-scaling-up-vms/

https://russellyoung.net/2016/09/01/managing-vm-scale-sets-vmss-with-powershell-and-arm-templates/

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

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

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

https://disqus.com/home/discussion/thewindowsazureproductsite/how_to_configure_an_availability_set_for_virtual_machines/

2.6. Design and implement VM storage.

This objective may include but is not limited to: Configure disk caching; plan storage capacity; configure operating system disk redundancy; configure shared storage using Azure File service; configure geo-replication; encrypt disks

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

https://blogs.msdn.microsoft.com/windowsazurestorage/2011/09/15/introducing-geo-replication-for-windows-azure-storage/

https://blogs.msdn.microsoft.com/windowsazurestorage/2014/05/12/introducing-microsoft-azure-file-service/

https://blogs.msdn.microsoft.com/windowsazurestorage/2013/12/

https://www.tutorialspoint.com/microsoft_azure/microsoft_azure_disk_caching.htm

https://blogs.msdn.microsoft.com/windowsazurestorage/2012/06/27/exploring-windows-azure-drives-disks-and-images/

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

https://books.google.co.in/books?id=BF-5BgAAQBAJ&pg=PA131&lpg=PA131&dq=azure+operating+system+disk+redundancy&source=bl&ots=pY50yzeJYL&sig=BY_9ubJaxz88vrnt2OlqQhq155M&hl=en&sa=X&ved=0ahUKEwjf6PTpsrTRAhULRo8KHbI6Bv0Q6AEISzAI#v=onepage&q=azure%20operating%20system%20disk%20redundancy&f=false

http://www.gregpakes.co.uk/create-a-shared-drive-using-azure-files/

http://www.ntweekly.com/?p=10034

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

https://docs.microsoft.com/en-us/azure/security-center/security-center-disk-encryption

https://gallery.technet.microsoft.com/Azure-Disk-Encryption-for-a0018eb0

http://windowsitpro.com/azure/encryption-options-azure-iaas-vms

2.7. Monitor VMs.

This objective may include but is not limited to: Configure endpoint monitoring, alerts, and diagnostics

http://azure.microsoft.com/en-us/documentation/articles/cloud-services-how-to-monitor/

http://michaelsync.net/2015/09/28/where-is-the-endpoint-setting-for-vm-in-new-azure-portal

http://stackoverflow.com/questions/37128618/configure-endpoint-monitoring-via-new-azure-portal

https://docs.microsoft.com/en-us/azure/application-insights/app-insights-monitor-web-app-availability - IMP

https://docs.microsoft.com/en-us/azure/application-insights/app-insights-migrate-azure-endpoint-tests

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

https://www.tutorialspoint.com/microsoft_azure/microsoft_azure_monitoring_virtual_machines.htm

https://www.tutorialspoint.com/microsoft_azure/microsoft_azure_setting_up_alert_rules.htm

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-endpoints-in-resource-manager

3. Objective Domain - Implement Cloud Services (15-20%)

3.1. Configure cloud services and roles.

This objective may include but is not limited to: Configure instance count and size, operating system version and family, upgrade and fault domains, implement Network Security Groups (NSG) and reserved IPs, and network access rules; configure local storage; configure dedicated and co-located caching, local and cloud configurations, and local disks; configure multiple Web Apps; configure custom domains

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

https://blogs.technet.microsoft.com/yungchou/?m=20115

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

https://msdn.microsoft.com/en-us/library/azure/hh914128.aspx

https://docs.microsoft.com/en-us/azure/vs-azure-tools-configure-roles-for-cloud-service - IMP

https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-sizes-specs

http://stackoverflow.com/questions/33825808/how-do-i-change-the-size-of-an-azure-cloud-service-worker-role
http://help.appveyor.com/discussions/questions/1128-how-do-you-change-the-size-of-webworker-roles-by-environment

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

https://msdn.microsoft.com/en-us/library/azure/ee758710.aspx

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

https://blogs.msdn.microsoft.com/plankytronixx/2015/05/01/azure-exam-prep-fault-domains-and-update-domains/ - IMP see Q& A at end

https://docs.microsoft.com/en-us/azure/best-practices-network-security - IMP

https://www.petri.com/network-security-groups-azure-resource-manager

http://stackoverflow.com/questions/38082954/attach-cloud-service-worker-instance-to-network-security-group

https://azure.microsoft.com/en-in/blog/reserved-ip-addresses/

https://github.com/Azure/azure-xplat-cli/issues/1791

Links suggested by Jasjit:
https://docs.microsoft.com/en-us/azure/security/azure-security-network-security-best-practices

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

https://gotoguy.blog/2014/10/17/assigning-a-public-reserved-ip-to-existing-azure-cloud-service/

http://www.techkb.onl/reserved-public-ip-addresses-in-microsoft-azure/

https://www.opsgility.com/blog/windows-azure-powershell-reference-guide/using-reserved-ip-addresses-with-microsoft-azure-virtual-machines/

https://msdn.microsoft.com/en-us/library/azure/dn769136.aspx

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-nsgc

http://www.windowsnetworking.com/articles-tutorials/cloud-computing/getting-started-azure-networking.html

http://www.computerweekly.com/tip/Guide-to-Windows-Azure-Part-3-How-to-configure-local-storage-resources

https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-startup-tasks-common

http://www.vkinfotek.com/azureqa/what-is-a-local-storage-and-how-to-configure-local-storage-resources.html
https://weblogs.asp.net/scottgu/windows-azure-new-distributed-dedicated-high-performance-cache-service-more-cool-improvements

http://www.dotnetcurry.com/windows-azure/865/windows-azure-caching

http://www.axilis.com/2014/08/07/azure-cache-demystified-shared-caching-vs-in-role-cache-vs-managed-cache-service-vs-azure-redis-cache/

https://en.wikipedia.org/wiki/Windows_Azure_Caching - IMP

http://stackoverflow.com/questions/18045279/configure-azure-shared-cache-locally-and-on-the-cloud

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

https://books.google.co.in/books?id=xrTEBgAAQBAJ&pg=PA205&lpg=PA205&dq=configure+cloud+caching+in+azure+cloud+services&source=bl&ots=HdApguxqLT&sig=XU3LR7KkI4_l-IoMmVs57ZQ9WdY&hl=en&sa=X&ved=0ahUKEwijze3k7rbRAhVKuI8KHb_QCLo4ChDoAQgYMAA#v=onepage&q=configure%20cloud%20caching%20in%20azure%20cloud%20services&f=false

http://stackoverflow.com/questions/15614060/deploying-multiple-web-roles-and-worker-roles-on-a-single-azure-cloud-service

https://docs.microsoft.com/en-us/azure/app-service-web/choose-web-site-cloud-service-vm

http://maffrigby.com/deploying-multiple-roles-to-the-same-azure-cloud-service/

http://stackoverflow.com/questions/5313143/run-multiple-workerroles-per-instance

http://blog.smarx.com/posts/web-page-image-capture-in-windows-azure

https://www.codementor.io/devops/tutorial/setting-domain-name-in-azure

http://stackoverflow.com/questions/13012710/custom-domain-for-azure-cloud-service

http://stackoverflow.com/questions/17685554/how-do-you-get-an-existing-domain-you-own-to-point-to-azures-servers

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

3.2. Deploy and manage cloud services.

This objective may include but is not limited to: Upgrade a deployment; VIP swap a deployment; package a deployment; modify configuration files; perform in-place updates; perform runtime configuration changes using the portal; scale a cloud service; create service bus namespaces and choose a tier; apply scalability targets

https://msdn.microsoft.com/en-us/library/azure/ee460793.aspx

http://stackoverflow.com/questions/27933573/difference-between-update-and-createdelete-deployment-option-for-azure-cloud-se

https://www.kenneth-truyers.net/2014/02/06/deploying-cloud-services-to-azure-with-powershell/

https://msdn.microsoft.com/en-us/library/azure/ee460814.aspx

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

https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-update-azure-service

https://docs.microsoft.com/en-us/azure/vs-azure-tools-publishing-a-cloud-service

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

https://msdn.microsoft.com/en-us/library/azure/ee460809.aspx

https://www.visualstudio.com/en-us/docs/release/examples/azure/change-config-azure-cloudservices

https://dzimchuk.net/updating-azure-cloud-service-configuration-with-powershell/

https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-update-azure-service - IMP

https://msdn.microsoft.com/en-us/library/dn589785.aspx

https://msdn.microsoft.com/en-us/library/hh680925(v=pandp.50).aspx

https://msdn.microsoft.com/library/azure/microsoft.windowsazure.serviceruntime.roleenvironment.changing.aspx

https://github.com/Microsoft/azure-docs/blob/master/articles/cloud-services/cloud-services-how-to-scale-powershell.md

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

https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-resource-manager-namespace

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

http://blogs.biztalk360.com/service-bus-preview-new-azure-portal/

https://github.com/Microsoft/azure-docs/blob/master/articles/storage/storage-scalability-targets.md

https://docs.particular.net/nservicebus/azure-storage-queues/multi-storageaccount-support - IMP

https://disqus.com/home/discussion/thewindowsazureproductsite/azure_storage_scalability_and_performance_targets/

3.3. Monitor cloud services.

This objective may include but is not limited to: Monitor service bus queues, topics, relays, and notification hubs; configure diagnostics

https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-azure-and-service-bus-queues-compared-contrasted

https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-dotnet-get-started-with-queues

https://github.com/Appdynamics/azure-servicebus-monitoring-extension

http://stackoverflow.com/questions/19542643/azure-service-bus-statistics-monitoring

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

https://github.com/paolosalvatori/ServiceBusExplorer

http://docs.akana.com/ag/ims_policies/using_ms_azure_service_bus_relay_policy.htm

http://azure.microsoft.com/en-us/documentation/articles/service-bus-monitor-message-entities/

https://msdn.microsoft.com/en-us/library/azure/dn458821.aspx

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

https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-dotnet-diagnostics

https://docs.microsoft.com/en-us/azure/vs-azure-tools-diagnostics-for-cloud-services-and-virtual-machines - IMP

4. Objective Domain - Implement Storage (15-20%)

4.1.Implement blobs and Azure files.

This objective may include but is not limited to: Read data; change data; set metadata on a container; use encryption (SSL); perform an async blob copy; configure a Content Delivery Network (CDN); implement storage for backup and disaster recovery; configure Azure Backup; define blob hierarchies; configure custom domains; configure the Import and Export Service; implement Premium storage

http://msdn.microsoft.com/en-us/library/azure/dd135715.aspx

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

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

https://docs.microsoft.com/en-us/rest/api/storageservices/fileservices/Naming-and-Referencing-Containers--Blobs--and-Metadata?redirectedfrom=MSDN

https://www.microsoftpressstore.com/articles/article.aspx?p=2315377 - IMP

http://robertfertig.com/azure-storage-implementation-step-by-step/

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

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

http://stackoverflow.com/questions/23480859/azure-storage-how-to-read-blob-data-and-properties-on-a-single-access

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

https://docs.microsoft.com/en-us/rest/api/storageservices/fileservices/setting-and-retrieving-properties-and-metadata-for-blob-resources

https://docs.microsoft.com/en-us/rest/api/storageservices/fileservices/set-container-metadata

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https://www.microsoft.com/en-us/trustcenter/Security/Encryption

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

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https://www.opsgility.com/blog/windows-azure-powershell-reference-guide/copying-vhds-blobs-between-storage-accounts/ - IMP

https://docs.microsoft.com/en-us/azure/cdn/cdn-create-new-endpoint

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http://stackoverflow.com/questions/24037754/azure-storage-account-backup-tables-and-blobs

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https://docs.microsoft.com/sv-se/azure/storage/storage-import-export-service

https://github.com/squillace/staging/blob/master/articles/storage/storage-import-export-service.md

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

https://azure.microsoft.com/en-in/blog/introducing-premium-storage-high-performance-storage-for-azure-virtual-machine-workloads/

4.2. Manage access.

This objective may include but is not limited to: Create and manage shared access signatures; use stored access policies; regenerate keys

http://azure.microsoft.com/en-us/documentation/articles/storage-dotnet-shared-access-signature-part-1/

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

https://www.simple-talk.com/cloud/platform-as-a-service/azure-blob-storage-part-9-shared-access-signatures/

https://github.com/Microsoft/azure-docs/blob/master/articles/storage/storage-dotnet-shared-access-signature-part-1.md

https://github.com/Microsoft/azure-docs/blob/master/articles/storage/storage-dotnet-shared-access-signature-part-2.md- IMP

http://gauravmantri.com/2013/02/13/revisiting-windows-azure-shared-access-signature/

http://storageexplorer.com/

4.3. Configure diagnostics, monitoring, and analytics.

This objective may include but is not limited to: Configure retention policies and logging levels; analyze logs

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

https://github.com/Microsoft/azure-docs/blob/master/articles/storage/storage-enable-and-view-metrics.md

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

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

https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-dotnet-diagnostics-storage

4.4. Implement SQL databases.

This objective may include but is not limited to: Choose the appropriate database tier and performance level; configure point in time recovery, geo-replication, and data sync; import and export data and schema; design a scaling strategy

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

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-performance-guidance

https://blogs.technet.microsoft.com/dataplatforminsider/2014/05/05/azure-sql-database-service-tiers-performance-qa/

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

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

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

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-get-started-sql-data-sync - IMP

https://github.com/Microsoft/XamarinAzure_ShoppingDemoApp/wiki/Offline-Data-Sync

https://blogs.msdn.microsoft.com/stevemaier/2014/08/26/azure-feature-sql-data-sync/

https://technet.microsoft.com/en-us/library/ms140052(v=sql.110).aspx

https://msdn.microsoft.com/en-us/library/ms141209.aspx

https://msdn.microsoft.com/en-us/library/aa479364.aspx

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

http://realscale.cloud66.com/database-server-scaling-strategies/

https://www.pluralsight.com/courses/scaling-sqlserver2012-part1

4.5. Implement recovery services.

This objective may include but is not limited to: Create a backup vault; deploy a backup agent; back up and restore data

https://docs.microsoft.com/en-us/azure/backup/backup-azure-manage-windows-server

https://azure.microsoft.com/en-in/resources/videos/getting-started-with-azure-backup-1-of-3-set-up-a-backup-vault-on-azure/

https://docs.microsoft.com/en-us/azure/backup/backup-configure-vault

https://msdn.microsoft.com/en-us/library/jj919148.aspx

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

5. Objective Domain - Implement an Azure Active Directory (15-20%)

5.1. Integrate an Azure AD with existing directories.

This objective may include but is not limited to: Implement Azure AD Connect, Office 365 integration, and single sign-on with on-premises Windows Server 2012 R2; add custom domains; monitor Azure AD

https://docs.microsoft.com/en-us/azure/active-directory/connect/active-directory-aadconnect

https://docs.microsoft.com/en-us/azure/active-directory/connect/active-directory-aadconnectsync-whatis

https://docs.microsoft.com/en-us/azure/active-directory/connect/active-directory-aadconnect-dirsync-upgrade-get-started

https://support.office.com/en-us/article/Understanding-Office-365-identity-and-Azure-Active-Directory-06a189e7-5ec6-4af2-94bf-a22ea225a7a9

https://support.office.com/en-us/article/Office-365-integration-with-on-premises-environments-263faf8d-aa21-428b-aed3-2021837a4b65

https://msdn.microsoft.com/en-us/library/azure/jj151786.aspx

https://technet.microsoft.com/en-us/library/dn550987(v=ws.11).aspx

https://technet.microsoft.com/en-us/library/dn509537.aspx

https://fazarsusanto.wordpress.com/2015/03/07/use-ad-fs-as-single-sign-on-windows-server-2012-r2/ - IMP

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-add-domain- IMP

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-add-manage-domain-names

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-add-domain-add-users

https://docs.microsoft.com/en-us/azure/active-directory/connect-health/active-directory-aadconnect-health-adfs

https://channel9.msdn.com/Series/Azure-Active-Directory-Videos-Demos/Azure-Active-Directory-Connect-Health-Monitoring-the-sync-engine

5.2. Configure the Application Access Panel.

This objective may include but is not limited to: Configure single sign-on with SaaS applications using federation and password based; add users and groups to applications; revoke access to SaaS applications; configure access; federation with Facebook and Google ID

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-saas-access-panel-introduction

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-appssoaccess-whatis

https://msandbu.wordpress.com/2014/06/23/azure-active-directory-premium-preview/

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-saas-tutorial-list

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-managing-access-to-apps

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-accessmanagement-group-saasapps

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-enable-sso-scenario

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-accessmanagement-self-service-group-management

http://stackoverflow.com/questions/25763602/azure-ad-assign-users-and-groups-to-app

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-applications-guiding-developers-assigning-users - IMP

https://www.microsoftpressstore.com/articles/article.aspx?p=2315271&seqNum=2 – IMP

5.3. Integrate an app with Azure AD.

This objective may include but is not limited to: web applications (WS-federation); desktop apps (OAuth); graph API

https://www.microsoftpressstore.com/articles/article.aspx?p=2315271&seqNum=3 - IMP

https://github.com/Microsoft/azure-docs/blob/master/articles/active-directory/develop/active-directory-how-to-integrate.md

http://bitoftech.net/2016/08/31/integrate-azure-ad-b2c-asp-net-mvc-web-app/

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

https://azure.microsoft.com/en-us/resources/samples/active-directory-dotnet-native-desktop/

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-v2-flows

https://docs.microsoft.com/en-us/azure/active-directory/active-directory-graph-api

https://github.com/Microsoft/azure-docs/blob/master/articles/active-directory/active-directory-developers-guide.md

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

6. Objective Domain - Implement Virtual Networks (15-20%)

6.1. Configure a virtual network.

This objective may include but is not limited to: Deploy a VM into a virtual network; deploy a cloud service into a virtual network; configure static IPs; configure internal load balancing; design subnets

https://github.com/Azure/azure-quickstart-templates/issues/497

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-linux-deploy-linux-vm-into-existing-vnet-using-portal

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-hero-tutorial

https://alexandrebrisebois.wordpress.com/2015/02/15/deploying-a-cloud-services-to-a-virtual-network-vnet-on-azure/

http://www.cloudcomputingadmin.com/articles-tutorials/windows-azure/azure-virtual-networks-and-cloud-services-part1.html

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

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

https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-get-started-ilb-arm-ps

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm

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

https://www.microsoftpressstore.com/articles/article.aspx?p=2358300&seqNum=2

6.2. Modify a network configuration.

This objective may include but is not limited to: Modify a subnet; import and export a network configuration

https://blogs.msdn.microsoft.com/igorpag/2016/03/13/how-to-change-subnet-and-virtual-network-for-azure-virtual-machines-asm-arm/

http://stackoverflow.com/questions/35349166/azure-power-shell-how-to-change-network-subnet

https://github.com/Microsoft/azure-docs/blob/master/articles/virtual-network/virtual-networks-using-network-configuration-file.md

https://clean-clouds.com/2015/12/10/microsoft-azure-how-to-export-virtual-network-configuration/

http://www.cloudcomputingadmin.com/articles-tutorials/windows-azure/working-windows-azure-virtual-networks.html

6.3. Design and implement a multi-site or hybrid network.

This objective may include but is not limited to: Choose the appropriate solution between ExpressRoute, site-to-site, and point-to-site; choose the appropriate gateway; identify supported devices and software VPN solutions; identify networking prerequisites; configure regional virtual networks and multi-site virtual networks

https://azure.microsoft.com/en-in/blog/expressroute-or-virtual-network-vpn-whats-right-for-me/ - IMP

http://www.windowsnetworking.com/articles-tutorials/cloud-computing/hybrid-network-infrastructure-microsoft-azure-part3.html

https://docs.microsoft.com/en-us/azure/guidance/guidance-hybrid-network-vpn

https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-multi-site

https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-vpn-faq

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-migrate-to-regional-vnet

https://azure.microsoft.com/en-in/blog/regional-virtual-networks/

http://windowsitpro.com/azure/understand-regional-networks-azure

https://www.nimbo.com/blog/azure-cross-region-virtual-network-configuration/ - IMP

http://blog.cloudthat.com/multi-site-azure/

https://github.com/Microsoft/azure-docs/blob/master/articles/vpn-gateway/vpn-gateway-vnet-vnet-rm-ps.md

https://blog.kloud.com.au/2014/06/10/microsoft-azure-multi-site-vpn/

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https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-sizes-specs

Add - AzureDataDisk
https://msdn.microsoft.com/en-us/library/azure/dn495298.aspx

Add - AzureDisk
https://msdn.microsoft.com/en-us/library/azure/dn495252.aspx

Add-AzureVhd
https://docs.microsoft.com/en-us/powershell/servicemanagement/azure.service/v3.1.0/add-azurevhd

Uploading and Downloading VHDs to Windows Azure
https://www.opsgility.com/blog/windows-azure-powershell-reference-guide/uploading-and-downloading-vhds-to-windows-azure/

Add-AzureVMImage
https://www.sapien.com/powershell/cmdlet/add-azurevmimage/

Set up endpoints on a classic Windows virtual machine
https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-classic-setup-endpoints?toc=%2fazure%2fvirtual-machines%2fwindows%2fclassic%2ftoc.json

Opening ports to a VM – IMP
https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-windows-nsg-quickstart-portal?toc=%2fazure%2fvirtual-machines%2fwindows%2ftoc.json

xplat-cli
https://github.com/Azure/azure-xplat-cli

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https://docs.microsoft.com/en-us/azure/virtual-machines/azure-cli-arm-commands - IMP

https://docs.microsoft.com/en-us/azure/virtual-machines-command-line-tools   - asm mode

https://azure.microsoft.com/en-in/blog/announcing-azure-cli-2-preview/

https://docs.microsoft.com/en-us/azure/virtual-machines/azure-cli-arm-commands - IMP

https://docs.microsoft.com/en-us/azure/virtual-machines/virtual-machines-linux-cli-manage

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https://support.office.com/en-us/article/Prepare-to-provision-users-through-directory-synchronization-to-Office-365-01920974-9e6f-4331-a370-13aea4e82b3e   IMP

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https://blogs.msdn.microsoft.com/denotation/2012/11/21/installing-and-configure-dirsync-with-ou-level-filtering-for-office365/

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https://social.technet.microsoft.com/wiki/contents/articles/18096.dirsync-password-sync-frequently-asked-questions.aspx

https://support.microsoft.com/en-us/help/2915221/passwords-don-t-sync-for-users-who-are-moved-into-scope-to-be-synced-in-the-azure-active-directory-sync-tool

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https://blogs.technet.microsoft.com/canitpro/2015/07/20/step-by-step-protect-physical-servers-with-azure-site-recovery/

https://scomandothergeekystuff.com/2016/11/07/step-by-step-setup-and-configure-azure-site-recovery-asr-for-on-premises-hyper-v-2012r2-with-azure-resource-manager-arm/   - IMP

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https://technet.microsoft.com/en-us/library/dd197563(v=ws.10).aspx

https://blogs.msdn.microsoft.com/azuresecurity/2015/07/13/certificate-management-in-azure-dos-and-donts/

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http://innerdot.com/azure/a-gaffers-guide-to-azure-service-principals-and-applications - IMP

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https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-guestos-update-matrix -IMP

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https://msdn.microsoft.com/en-us/library/azure/ee758711.aspx

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

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http://blog.perfectchoice.in/blog/2014/07/14/azure-site-to-site-vpn-in-azure-virtual-network-using-windows-server-2012-routing-and-remote-access-service-rras/

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