Azure Learning Map

`Cloud Comparisons	https://docs.microsoft.com/en-us/azure/architecture/aws-professional/services
	https://endjincdn.blob.core.windows.net/assets/endjin-cloud-platform-comparison.pdf
	http://8kmiles.com/azure-virtual-network-vs-aws-virtual-private-cloud/
To	ools to Create Azure Resources
Portal	https://portal.azure.com
Cli	https://docs.microsoft.com/en-us/cli/azure/install-azure-cli
Cloud Shell	
PowerShell	
SDK	https://azure.microsoft.com/en-in/downloads/
Storage Explorer	http://azurestorageexplorer.codeplex.com/
Resource Explorer	https://resources.azure.com
IAAS	
VM	https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-manage-vm
Network	https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-virtual-network
cloud-init	https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-automate-vm-deployment
Availability Set	https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-availability-sets
Scale Set	https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-create-vmss
	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-virtual-machine-scale-sets/virtual-sets/virtual-sets/virtual-sets/virtual-sets/virtual-sets/virtual-sets/virtual-sets/virtual-sets/virtual-sets/virtual-sets/virtual-sets/virtual-sets/virtual-sets/vi
Vertical Scale	https://docs.microsoft.com/en-us/azure/virtual-machines/linux/vertical-scaling-automation?toc=%2fazure%2fvirtual-machines%2flinux%2ftoc.json
disk	https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-manage-disks

Load Balancer	External https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-load-balancer doc https://opbuildstorageprod.blob.core.windows.net/output-pdf-files/en-us/Azure.azure- documents/live/load-balancer.pdf internal https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-get-started-ilb- arm-cli		
Case Study	https://docs.microsoft.com/en-us/azure/virtual-machines/linux/create-cli-complete		
	https://docs.microsoft.com/en-us/azure/virtual-machines/linux/quick-create-powershell		
Azure Low priority VM (preview)	http://blog.spotinst.com/2017/05/14/microsoft-azure-low-priority-vms/		
IP address	https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-ip-addresses-overview-arm		
Availability Zones	https://social.technet.microsoft.com/wiki/contents/articles/51828.azure-vms-availability-sets-and-availability-zones.aspx?Redirected=true		
	Containers		
Container Service	https://docs.microsoft.com/en-us/azure/aks/kubernetes-walkthrough		
	Microsoft's Azure Container Service (ACS) is now Azure Kubernetes Services (AKS)		
	When creating a service, you have the option of automatically creating a cloud network load balancer. This provides an externally-accessible IP address that sends traffic to the correct port on your cluster nodes provided your cluster runs in a supported environment and is configured with the correct cloud load balancer provider package.		
	Note: If your account doesn't have the Azure AD and subscription permissions		
	to create a service principal, the command generates an error similar		
	to Insufficient privileges to complete the operation.		
Serverless containers	https://docs.microsoft.com/en-us/azure/container-instances/container-instances-quickstart		
	data platform		
Blob	https://docs.microsoft.com/en-us/azure/storage/blobs/storage-quickstart-blobs-cli		
	https://azure.microsoft.com/en-in/documentation/articles/storage-dotnet-how-to-use-blobs/		
	Block (file upload) vs page- IAAS (random read,write) blob, append blob (Eg. logging, auditing)		
	https://www.red-gate.com/simple-talk/cloud/cloud-data/working-azure-blob-storage-service/		
SnapShot			

File	smb protocol https://azure.microsoft.com/en-in/documentation/articles/storage-dotnet-how-to-use-files/
Azure Storage	classic https://docs.microsoft.com/en-us/azure/storage/storage-powershell-guide-full
	RM https://artofshell.com/2016/05/automate-azure-blob-storage-powershell/
	java : https://azure.microsoft.com/en-us/documentation/articles/java-download-azure-sdk/
throughput	https://docs.microsoft.com/en-us/azure/storage/storage-scalability-targets check list https://docs.microsoft.com/en-us/azure/storage/storage-performance-checklist https://docs.microsoft.com/en-us/rest/api/storageservices/deciding-when-to-use-azure-blobsazure-filesor-azure-data-disks shared disk https://stackoverflow.com/questions/19620645/shared-drive-between-azure-virtual-machines
Table	https://azure.microsoft.com/en-in/documentation/articles/storage-dotnet-how-to-use-tables/ https://github.com/azure/azure-storage-java
Sql Azure	https://azure.microsoft.com/en-in/documentation/articles/sql-database-get-started/

Cosmos https://docs.microsoft.com/en-us/azure/cosmos-db/multi-region-writers Throughput: Azure Cosmos DB Table API gives highly scalable throughput which is backed with SLAs and its upper bound support is up to >10 million operations per table. On the other hand, variable throughput model in Azure Storage Table has scalability limit 20,000 per operations. easy to create a geographic performance by having Cosmos DB replicate data to another region. You just indicate the region and data are replicated in real-time. And better yet, you can keep communicating with your app as you did before and Cosmos DB will figure out which database in which region is the most performant for you. Keep in mind though, that replicas are always readonly replicas, and you only have one writable node. performance. takes care of indexes automatically. There is no need for you to tune your database, this happens automatically. On top of this, performance is part of the SLA, where Microsoft promises a maximum of 10ms latency for reading operations and 15ms latency for write operations. different APIs to talk to it. You can use the original (SQL-like) DocumentDB query language, JavaScript, Gremlin, MongoDB and Table Storage. Consistency: Five well-defined consistency levels are available in ACDTA which can turn on and off automatically. Consistency is strong only in primary region and eventual in other regions when it comes to AST. https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels **SLAs:** 99.99% availability is given on AVDTA while you can increase availability by adding more regions. The same level of SLAs availability is given on Azure Storage Table. Cosmos https://scalegrid.io/blog/cassandra-vs-mongodb/ Document https://russellyoung.net/2016/06/18/managing-documentdb-with-powershell/ https://docs.microsoft.com/en-us/azure/documentdb/documentdb-manage-account-withpowershell https://docs.microsoft.com/en-in/azure/documentdb/documentdb-get-started https://blogs.msdn.microsoft.com/tsmatsuz/2017/07/04/azure-cosmos-db-gremlin-graph-Graph tutorial/ https://docs.microsoft.com/en-us/azure/cosmos-db/create-graph-gremlin-console https://tinkerpop.apache.org/docs/current/reference/#gremlin-console

https://docs.microsoft.com/en-us/azure/batch/batch-account-create-portal

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

Azure Batch

MySQL (preview)

Postgres (Preview)	
	Analytical data
Azure Data Lake Store	https://docs.microsoft.com/en-us/azure/data-lake-store/data-lake-store-get-started-cli-2.0 Data Lake vs Blob https://www.codit.eu/blog?tag=big%20data pricing https://azure.microsoft.com/en-in/pricing/details/data-lake-store/ https://azure.microsoft.com/en-us/resources/videos/data-lake-billing-model/ compari
Azure Data Lake Analytics	https://docs.microsoft.com/en-us/azure/data-lake-analytics/data-lake-analytics-get-started-cli2 https://docs.microsoft.com/en-us/azure/data-lake-analytics/data-lake-analytics-get-started-portal USQL https://docs.microsoft.com/en-us/azure/data-lake-analytics/data-lake-analytics-u-sql-get-started https://msdn.microsoft.com/en-us/library/mt706196.aspx https://raw.githubusercontent.com/Azure/Azure-DataFactory/master/Samples/U-SQL%20Sample%20Input%20File/SearchLog.tsv U-SQL vs Spark SQL https://stackoverflow.com/questions/35575080/azure-spark-sql-vs-u-sql case study https://docs.microsoft.com/en-us/azure/machine-learning/machine-learning-data-science-process-data-lake-walkthrough

Azure Data Factory

https://docs.microsoft.com/en-us/azure/data-factory/quickstart-create-data-factory-powershell

https://docs.microsoft.com/en-us/azure/data-factory/data-factory-azure-blob-connector

 $\underline{https://docs.microsoft.com/en-us/azure/data-factory/data-factory-copy-activity-tutorial-using-azure-portal}\\$

https://docs.microsoft.com/en-us/azure/data-factory/data-factory-build-your-first-pipeline

 $\underline{\text{https://docs.microsoft.com/en-us/azure/data-factory/data-factory-build-your-first-pipelineusing-editor}$

https://docs.microsoft.com/en-us/azure/data-factory/data-factory-copy-activity-tutorial-using-azure-portal

http://www.winwire.com/wp-content/uploads/2017/02/Step-by-Step-Azure-Data-Factory-Tutorials-1.pdf

Data Factory vs SSIS

http://www.radacad.com/wp-content/uploads/2016/05/

SqlBits2016_RezaRad_ADFvsSSIS.pdf

http://www.jamesserra.com/archive/2017/03/azure-data-factory-and-ssis-compared/

Azure SQL Data Warehouse

 $\underline{\text{https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-get-started-tutorial}$

loading data

 $\underline{\text{https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-overview-load}}$

 $\frac{https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-load-with-data-factory}{}$

MPP vs Map Reduce

https://www.flydata.com/blog/introduction-to-massively-parallel-processing/

Sql server vs warehouse

https://key2consulting.com/comparison-of-azure-sql-database-to-azure-sql-datawarehouse/

Lake vs warehouse

https://www.blue-granite.com/blog/bid/402596/top-five-differences-between-data-lakes-and-data-warehouses

 $\frac{https://azure.microsoft.com/en-in/resources/videos/build-2016-azure-data-lake-and-azure-data-warehouse-applying-modern-practices-to-your-app/$

Machine Learning

https://azure.microsoft.com/en-in/documentation/articles/machine-learning-create-experiment/

https://docs.microsoft.com/en-in/azure/machine-learning/machine-learning-publish-a-machine-learning-web-service

PROCESS BLOB DATA

 $\frac{https://docs.microsoft.com/en-us/azure/machine-learning/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-learning-data-science-process-data-blob}{com/en-us/azure/machine-process-data-blob}{com/en-us/azure/machine-process-data-blob}{com/en-us/azure/machine-process-data-blob}{com/en-us/azure/machine-process-data-blob}{com/en-us/azure/machine-process-data-blob}{com/en-us/azure/machine-process-data-blob}{com/en-us/azure/mach$

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HDInsight (Spark)	https://azure.microsoft.com/en-in/documentation/articles/hdinsight-apache-spark-jupyter-spark-sql/
Azure Data Bricks	https://docs.azuredatabricks.net/getting-started/quick-start.html
	https://docs.azuredatabricks.net/getting-started/spark/machine-learning.html#ml-notebook
	Streaming data
Event Hub	https://azure.microsoft.com/en-in/documentation/articles/event-hubs-csharp-ephcs-getstarted/ https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-dotnet-standard-getstarted-receive-eph csv: https://stackoverflow.com/questions/30868467/how-to-send-data-as-csv-on-eventhub-for-azure-stream-analytics/30870640 Java: works with only java 8
Katha (anadan)	
Kafka (preview)	
Stream Analytics	https://www.codit.eu/blog/2015/01/azure-stream-analytics-getting-started/
	https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-real-time-fraud-detection
	SELECT
	System.TimeStamp AS WindowEnd, Name,
	COUNT(*)
	INTO output1
	FROM input1
	where Age > 25 GROUP BY Name
	, TUMBLINGWINDOW(minute, 1)
Azure HDInsight	
(Storm, Spark	
streaming)	
	Messaging
Queue	https://azure.microsoft.com/en-in/documentation/articles/storage-dotnet-how-to-use-queues/
Service Bus Queue	https://gist.github.com/rberrelleza/2221610
	https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-manage-with-ps
	https://azure.microsoft.com/en-in/documentation/articles/service-bus-dotnet-get-started-with-queues/
Service Bus Topic	https://azure.microsoft.com/en-in/documentation/articles/service-bus-dotnet-how-to-use-topics-subscriptions/

Notification Hub	
Event Grid	https://docs.microsoft.com/en-us/azure/event-grid/custom-event-quickstart
	https://azurebiztalkread.wordpress.com/2018/05/19/azure-service-bus-topic-vs-azure-event-grid-topic/
Patterns	Command Message(Queue) http://www.enterpriseintegrationpatterns.com/patterns/messaging/CommandMessage.html
	Request-Reply (Queue) http://www.enterpriseintegrationpatterns.com/patterns/messaging/RequestReply.html
	Event Message (Queue) http://www.enterpriseintegrationpatterns.com/patterns/messaging/EventMessage.html
	Computation
Web App	http://almirvuk.blogspot.in/2015/12/how-to-upload-web-site-to-azure-with.html Auto Scale:
	https://blogs.msdn.microsoft.com/devschool/2015/05/24/azure-how-to-auto-scale-your-web-apps-web-sites/deployment slots:
	https://azure.microsoft.com/en-in/documentation/articles/web-sites-staged-publishing/ After a swap, the slot with previously staged app now has the previous production app. If the changes swapped into
	the production slot are not as you expected, you can perform the same swap immediately to get your "last known good site" back.
	Scale Up: https://azure.microsoft.com/en-in/documentation/articles/web-sites-scale/
	Load Test
	https://www.visualstudio.com/en-us/docs/test/performance-testing/app-service-web-app-performance-test
CDN Cache	https://azure.microsoft.com/en-us/documentation/articles/cdn-create-a-storage-account-with-cdn/
	http:// <storageacountlabel>.blob.core.windows.net/<mycontainer>/myblob</mycontainer></storageacountlabel>
	http:// <endpointname>.azureedge.net/<mycontainer>/myblob</mycontainer></endpointname>
Redis Cache	https://azure.microsoft.com/en-in/documentation/articles/cache-dotnet-how-to-use-azure-redis-cache/
Web Job	https://azure.microsoft.com/en-in/documentation/articles/web-sites-create-web-jobs/
Function	https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-storage-blob-triggered-function
	https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-event-hubs
	http://www.hanselman.com/blog/WhatlsServerlessComputingExploringAzureFunctions.aspx http://flgmwt.github.io/azure/azure-functions/c-sharp/2016/04/04/azure-fns-with-ci.html https://www.codeproject.com/Articles/1110663/Azure-Functions-Tutorial-SQL-Database

Service Fabric

replacing cloud service

install:

https://blog.geist.no/azure-service-fabric-introduction-getting-it-running/

https://azure.microsoft.com/en-us/documentation/articles/service-fabric-get-started/

https://azure.microsoft.com/en-in/documentation/articles/service-fabric-reliable-services-quick-start/https://rahulrai.in/post/hands-on-with-azure-service-fabric-reliable-services/

Services packaged into Windows or Linux containers managed by Docker.Guest

executables

an arbitrary executable, written in any language, existing app, do not benefit from the full set of features the platform offers, such as custom health and load reporting, service endpoint registration, and stateful compute.

Reliable Services

Guest Container

Reliable Services is a light-weight framework for writing services that integrate with the Service Fabric platform and benefit from the full set of platform features.

Reliable Actors

https://mikhail.io/2016/01/fire-and-forget-in-service-fabric-actors/

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

Facade

Application GateWay

The Application Gateway uses Azure Load Balancer at the transport level and then applies the routing rules to support layer-7 (HTTP) load balancing.

features

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

getting started

https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-create-gateway-portal

with ilb

https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-ilb-arm

Ubuntu VM Scale Set with Application Gateway Integration

https://github.com/Azure/azure-quickstart-templates/tree/master/201-vmss-ubuntu-app-gateway

content based routing

https://vincentlauzon.com/2017/05/08/url-routing-with-azure-application-gateway/

Relay

https://azure.microsoft.com/en-in/documentation/articles/service-bus-relay-tutorial/articles/service-bus-relay-b

Traffic Manager

https://blogs.technet.microsoft.com/canitpro/2015/02/09/step-by-step-managing-traffic-for-workloads-in-azure/

Api Management	get started https://docs.microsoft.com/en-us/azure/api-management/api-management-get-started limit https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-product-with-rules cache https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-cache vnet https://docs.microsoft.com/en-us/azure/api-management/api-management-using-with-vnet azure ad https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-protect-backend-with-aad https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-aad oauth https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-oauth2	
Security		
	https://docs.microsoft.com/en-us/azure/security/azure-security-services-technologies	
role based access (RBAC)	https://docs.microsoft.com/en-us/azure/active-directory/role-based-access-control-configure https://docs.microsoft.com/en-us/azure/active-directory/role-based-access-built-in-roles	
User Principal	https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/add-users-azure-active-directory	
Managed Service Identity	https://docs.microsoft.com/en-us/azure/app-service/app-service-managed-service-identity https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure- resources/tutorial-windows-vm-access-storage https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure- resources/tutorial-windows-vm-access-storage-sas https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure- resources/tutorial-windows-vm-access-nonaad - A system-assigned identity is tied to your application and is deleted if your app is deleted. An app can only have one system-assigned identity. System-assigned identity support is generally available for Windows apps A user-assigned identity is a standalone Azure resource which can be assigned to your app. An app can have multiple user-assigned identities. User-assigned identity support is in preview for all app types. https://joonasw.net/view/azure-ad-managed-service-identity https://blog.kloud.com.au/2018/04/13/demystifying-managed-service-identities-on-azure/	

Service Principal	https://docs.microsoft.com/en-us/cli/azure/create-an-azure-service-principal-azure-cli?view=azure-cli-latest https://markheath.net/post/create-service-principal-azure-cli https://docs.microsoft.com/en-us/azure/active-directory/develop/howto-create-service-principal-portal azure ad app create —display-name "climanager"homepage "http://localhost/climanager"password "spielpassword" az ad sp create-for-rbacname "jack"password "spielpassword" https://docs.microsoft.com/en-us/cli/azure/create-an-azure-service-principal-azure-cli
Shared Access Signature	https://buildazure.com/2017/05/23/azure-cli-2-0-generate-sas-token-for-blob-in-azure-storage/ https://azure.microsoft.com/en-in/documentation/articles/storage-dotnet-shared-access-signature-part-2/ GetBlobSasUriWithPolicy CloudBlockBlob cloudBlockBlob = new CloudBlockBlob("http://127.0.0.1:/temp/sastest.txt"); cloudBlockBlob.Delete(); java: https://blog.persistent.com/index.php/2012/06/22/windows-azure-and-java-working-with-blob-storage/
Storage Service Encryption (SSE)	https://docs.microsoft.com/en-us/azure/storage/storage-service-encryption https://docs.microsoft.com/en-us/azure/storage/common/storage-service-encryption-customer-managed-keys? toc=%2fazure%2fstorage%2fblobs%2ftoc.json
Azure Disk Encryption (ADE)	https://docs.microsoft.com/en-us/azure/virtual-machines/scripts/virtual-machines-linux-cli-sample-encrypt-vm
Security Center	https://docs.microsoft.com/en-us/azure/security-center/security-center-intro https://docs.microsoft.com/en-us/azure/security-center/security-center-get-started https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-azure-security
key vault	https://docs.microsoft.com/en-us/azure/key-vault/key-vault-manage-with-cli https://docs.microsoft.com/en-us/azure/key-vault/key-vault-get-started

Client Side Encryption	https://docs.microsoft.com/en-us/azure/storage/storage-encrypt-decrypt-blobs-key-vault
best practices	https://docs.microsoft.com/en-us/azure/storage/storage-security-guide
web app - service environment	https://docs.microsoft.com/en-us/azure/app-service-web/app-service-app-service-environment-intro
Network Security	list of features https://docs.microsoft.com/en-us/azure/virtual-network/resource-groups-networking https://opbuildstorageprod.blob.core.windows.net/output-pdf-files/en-us/Azure.azure-documents/live/virtual-network.pdf UDR are applied to traffic leaving subnet from any resource (eg.nic attached to vm). you cannot create routes to specify how traffic enters a subnet. https://campus.barracuda.com/product/nextgenfirewallf/article/NGF62/ AzureARMUDRWebPortal/ https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-create-udr-arm-ps https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-udr-overview practice 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? toc=%2fazure%2fvirtual-network%2ftoc.json https://blogs.msdn.microsoft.com/igorpag/2016/05/14/azure-network-security-groups-nsg-best-practices-and-lessons-learned/ case Study https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm?toc=%2fazure%2fnetworking%2ftoc.json

VPN

point to site

https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-point-to-site-resource-manager-portal

 $\verb|https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-point-to-site-rm-ps||$

site to site

https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-site-to-site-resource-manager-cli

http://www.rebeladmin.com/2016/12/step-step-guide-configure-site-site-vpn-gateway-connection-azure-premises-network/

https://blogs.technet.microsoft.com/canitpro/2016/01/11/step-by-step-connect-your-aws-and-azure-environments-with-a-vpn-tunnel/

site to multisite

vnet to vnet

https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-vnet-vnet-cli

express route

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

When you create a gateway subnet, it must be named 'GatewaySubnet'. If you name it something else, you create a subnet, but Azure won't treat it as a gateway subnet.

Management

Template

Create

 $\frac{https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-create-first-template}{create-first-template}$

deploy

 $\frac{\text{https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-quickstart-deploy}{}$

export

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

linked

 $\underline{\text{https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-linked-templates}\\$

сору

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

dependancy

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

best practices

http://utkarshcloudnet.blogspot.in/2016/05/Azure-Rerource-Manager-Template-ARM-Azure-best-practices-tips.html

deployment from portal

 $\frac{https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-template-deploy-portal}{}\\$

Monitoring	https://medium.com/devopslinks/the-state-of-monitoring-in-azure-42cc0174c785
	https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-get-started
	https://docs.microsoft.com/en-us/azure/azure-monitor/app/website-monitoring
	https://try.newrelic.com/rs/newrelic/images/Azure Getting-Started-Guide FINAL.pdf
	https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-monitoring
	diagnostic logs https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-overview-of-diagnostic-logs
	activity logs https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-overview-activity-logs
Azure Automation DSC	https://docs.microsoft.com/en-us/azure/automation/automation-dsc-getting-started
	logs https://docs.microsoft.com/en-us/azure/automation/automation-runbook-output-and-messages
Chef DSC	https://www.opsgility.com/blog/2016/01/19/using-chef-on-azure/
	https://tryazuremarketplace.com/pdfs/Chef_on_Azure.pdf https://vishwanathsrikanth.wordpress.com/2015/01/11/desired-state-configuration-using-chef-knife-on-azure-part-2/
Automation	https://codehollow.com/2016/07/automatically-shutdown-virtual-machines-azure/http://www.nullfactory.net/2016/11/scheduling-the-uptime-of-an-azure-virtual-machine/http://theithollow.com/2016/09/19/get-started-azure-automation/
	https://msdn.microsoft.com/en-us/powershell/dsc/logresource
	https://msdn.microsoft.com/en-us/powershell/dsc/debugresource
CI/CD	https://docs.microsoft.com/en-us/azure/jenkins/java-deploy-webapp-tutorial
	https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-jenkins-github-docker-cicd
	https://docs.microsoft.com/en-us/azure/container-service/container-service-kubernetes-jenkins
	https://docs.microsoft.com/en-us/azure/virtual-machines/windows/chef-automation
	http://carolynvanslyck.com/blog/2013/02/setting-up-jenkins-on-azure/
	https://www.visualstudio.com/en-us/docs/build/get-started/aspnet-4-ci-cd-azure-automatic

Backup and Recovery	Backup Vault (classic) Recovery Service (RM) Intro https://docs.microsoft.com/en-us/azure/backup/backup-azure-vms-introduction backup https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-backup- Recovery service https://docs.microsoft.com/en-us/azure/backup/backup-azure-vms-first-look-arm disaster recovery https://docs.microsoft.com/en-us/azure/storage/storage-redundancy
Pricing	https://stackify.com/lower-azure-pricing-optimize-costs/ https://azure.microsoft.com/en-in/pricing/ https://azure.microsoft.com/en-in/pricing/calculator/
Visual Studio Team Service	http://www.c-sharpcorner.com/article/getting-started-with-visual-studio-team-services/ https://mitra.computa.asia/article/msdn-getting-started-using-visual-studio-team-services-vsts-source-control

A Key Vault is dedicated to one specific region and thus you will not be able to consult data from within a different region. All the secrets and keys will be stored in physical HSMs in that specific region, the data will never leave that geographic region. This limitation can cause some headaches when you are planning for disaster recovery.

If your data size is > 10 TB and you want to move it to Azure, we recommend that you use our disk shipping service

If you have a small amount of data you can use bcp to load directly into Azure SQL Data Warehouse.

Use AZCopy (recommended for < 10 TB data)