

# Azure Learning Map

Cloud Comparisons	<a href="https://docs.microsoft.com/en-us/azure/architecture/aws-professional/services">https://docs.microsoft.com/en-us/azure/architecture/aws-professional/services</a> <a href="https://community.spiceworks.com/cloud/articles/2496-aws-vs-azure-in-2017-iaas-similarities-and-differences">https://community.spiceworks.com/cloud/articles/2496-aws-vs-azure-in-2017-iaas-similarities-and-differences</a>  <a href="http://www.tomsitpro.com/articles/azure-vs-aws-cloud-comparison,2-870-2.html">http://www.tomsitpro.com/articles/azure-vs-aws-cloud-comparison,2-870-2.html</a>  A good comparison Chart <a href="https://endjincdn.blob.core.windows.net/assets/endjin-cloud-platform-comparison.pdf">https://endjincdn.blob.core.windows.net/assets/endjin-cloud-platform-comparison.pdf</a>  <a href="https://blogs.endjin.com/2016/11/aws-vs-azure-vs-google-cloud-platform-networking/">https://blogs.endjin.com/2016/11/aws-vs-azure-vs-google-cloud-platform-networking/</a>  <a href="https://blogs.endjin.com/2016/11/aws-vs-azure-vs-google-cloud-platform-networking/">https://blogs.endjin.com/2016/11/aws-vs-azure-vs-google-cloud-platform-networking/</a>  <a href="http://8kmiles.com/azure-virtual-network-vs-aws-virtual-private-cloud/">http://8kmiles.com/azure-virtual-network-vs-aws-virtual-private-cloud/</a> <a href="http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/VPC_Security.html">http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/VPC_Security.html</a>
<h2>Tools to Create Azure Resources</h2>	
Portal	<a href="https://portal.azure.com">https://portal.azure.com</a>
Cli	<a href="https://docs.microsoft.com/en-us/cli/azure/install-azure-cli">https://docs.microsoft.com/en-us/cli/azure/install-azure-cli</a>  %APPDATA%\Python\PythonXY\Scripts in the PATH
	<a href="https://jinglefunapp.azurewebsites.net/api/HttpTriggerCSharp1?code=">https://jinglefunapp.azurewebsites.net/api/HttpTriggerCSharp1?code=</a>
Cloud Shell	<a href="https://github.com/Microsoft/azure-docs/blob/master/articles/cloud-shell/persisting-shell-storage.md">https://github.com/Microsoft/azure-docs/blob/master/articles/cloud-shell/persisting-shell-storage.md</a>
PowerShell	\$PSVersionTable.PSVersion get-module windows 7 - powershell 5 windows 10 - powershell latest <a href="https://github.com/PowerShell/PowerShell">https://github.com/PowerShell/PowerShell</a> <a href="https://www.howtogeek.com/267858/how-to-install-microsoft-powershell-on-linux-or-os-x/">https://www.howtogeek.com/267858/how-to-install-microsoft-powershell-on-linux-or-os-x/</a> <a href="https://docs.microsoft.com/en-us/powershell/azure/install-azurermp-4.0.0">https://docs.microsoft.com/en-us/powershell/azure/install-azurermp-4.0.0</a> <a href="https://github.com/PowerShell/PowerShellGet/issues/35">https://github.com/PowerShell/PowerShellGet/issues/35</a> Open a Powershell window as an administrator Set-ExecutionPolicy -ExecutionPolicy Unrestricted -Force -Scope CurrentUser

Template	<b>Create</b> <a href="https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-create-first-template">https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-create-first-template</a> <b>deploy</b> <a href="https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-quickstart-deploy">https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-quickstart-deploy</a> <b>export</b> <a href="https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-export-template-cli">https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-export-template-cli</a> <b>linked</b> <a href="https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-linked-templates">https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-linked-templates</a> <b>copy</b> <a href="https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-create-multiple">https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-create-multiple</a> <b>dependancy</b> <a href="https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-define-dependencies">https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-define-dependencies</a> <b>best practices</b> <a href="http://utkarshcloudnet.blogspot.in/2016/05/Azure-Rerource-Manager-Template-ARM-Azure-best-practices-tips.html">http://utkarshcloudnet.blogspot.in/2016/05/Azure-Rerource-Manager-Template-ARM-Azure-best-practices-tips.html</a> <b>deployment from portal</b> <a href="https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-template-deploy-portal">https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-template-deploy-portal</a>
SDK	<a href="https://azure.microsoft.com/en-in/downloads/">https://azure.microsoft.com/en-in/downloads/</a>
Storage Explorer	<a href="http://azurestorageexplorer.codeplex.com/">http://azurestorageexplorer.codeplex.com/</a>
Resource Explorer	<a href="https://resources.azure.com">https://resources.azure.com</a>
IAAS	
VM	<a href="https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-manage-vm">https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-manage-vm</a>
Network	<a href="https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-virtual-network">https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-virtual-network</a>
cloud-init	<a href="https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-automate-vm-deployment">https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-automate-vm-deployment</a>
Availability Set	<a href="https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-availability-sets">https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-availability-sets</a>
Scale Set	<a href="https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-create-vmss">https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-create-vmss</a>
AutoScale (horizontal)	<a href="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-autoscale-overview</a> <a href="https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-overview-autoscale">https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-overview-autoscale</a> <a href="https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-overview-autoscale">https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-overview-autoscale</a>
Vertical Scale	<a href="https://docs.microsoft.com/en-us/azure/virtual-machines/linux/vertical-scaling-automation?toc=%2fazure%2fvirtual-machines%2flinux%2ftoc.json">https://docs.microsoft.com/en-us/azure/virtual-machines/linux/vertical-scaling-automation?toc=%2fazure%2fvirtual-machines%2flinux%2ftoc.json</a>
disk	<a href="https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-manage-disks">https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-manage-disks</a>

Load Balancer	<b>External</b> <a href="https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-load-balancer">https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-load-balancer</a> <b>doc</b> <a href="https://opbuildstorageprod.blob.core.windows.net/output-pdf-files/en-us/Azure.azure-documents/live/load-balancer.pdf">https://opbuildstorageprod.blob.core.windows.net/output-pdf-files/en-us/Azure.azure-documents/live/load-balancer.pdf</a> <b>internal</b> <a href="https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-get-started-ilb-arm-cli">https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-get-started-ilb-arm-cli</a>
Case Study	<a href="https://docs.microsoft.com/en-us/azure/virtual-machines/linux/create-cli-complete">https://docs.microsoft.com/en-us/azure/virtual-machines/linux/create-cli-complete</a>
Container Service	<a href="https://docs.microsoft.com/en-us/azure/container-service/container-service-kubernetes-walkthrough">https://docs.microsoft.com/en-us/azure/container-service/container-service-kubernetes-walkthrough</a>  <a href="https://docs.docker.com/get-started/part2/#pull-and-run-the-image-from-the-remote-repository">https://docs.docker.com/get-started/part2/#pull-and-run-the-image-from-the-remote-repository</a>  <a href="https://prakhar.me/docker-curriculum/">https://prakhar.me/docker-curriculum/</a> <a href="https://www.codeschool.com/blog/2014/10/21/containing-world-docker/">https://www.codeschool.com/blog/2014/10/21/containing-world-docker/</a> <a href="https://www.katacoda.com/courses/docker/create-nginx-static-web-server">https://www.katacoda.com/courses/docker/create-nginx-static-web-server</a>  <a href="https://opsnotice.xyz/build-swarm-cluster/">https://opsnotice.xyz/build-swarm-cluster/</a>  <a href="https://blogs.msdn.microsoft.com/uk_faculty_connection/2016/09/23/getting-started-with-docker-and-container-services/">https://blogs.msdn.microsoft.com/uk_faculty_connection/2016/09/23/getting-started-with-docker-and-container-services/</a>  <a href="https://docs.microsoft.com/en-us/azure/container-service/container-service-kubernetes-load-balancing">https://docs.microsoft.com/en-us/azure/container-service/container-service-kubernetes-load-balancing</a>  <a href="https://www.tutorialspoint.com/kubernetes/kubernetes_tutorial.pdf">https://www.tutorialspoint.com/kubernetes/kubernetes_tutorial.pdf</a>
Azure Low priority VM (preview)	<a href="http://blog.spotinst.com/2017/05/14/microsoft-azure-low-priority-vms/">http://blog.spotinst.com/2017/05/14/microsoft-azure-low-priority-vms/</a>
data platform	
Blob	<a href="https://azure.microsoft.com/en-in/documentation/articles/storage-dotnet-how-to-use-blobs/">https://azure.microsoft.com/en-in/documentation/articles/storage-dotnet-how-to-use-blobs/</a>  <a href="https://docs.microsoft.com/en-us/azure/storage/storage-azure-cli">https://docs.microsoft.com/en-us/azure/storage/storage-azure-cli</a>  Block (file upload) vs page- IAAS (random read,write) blob, append blob (Eg. logging, auditing)
SnapShot	
File	smb protocol <a href="https://azure.microsoft.com/en-in/documentation/articles/storage-dotnet-how-to-use-files/">https://azure.microsoft.com/en-in/documentation/articles/storage-dotnet-how-to-use-files/</a>
Azure Storage	<b>classic</b> <a href="https://docs.microsoft.com/en-us/azure/storage/storage-powershell-guide-full">https://docs.microsoft.com/en-us/azure/storage/storage-powershell-guide-full</a>  RM <a href="https://artofshell.com/2016/05/automate-azure-blob-storage-powershell/">https://artofshell.com/2016/05/automate-azure-blob-storage-powershell/</a>  java : <a href="https://azure.microsoft.com/en-us/documentation/articles/java-download-azure-sdk/">https://azure.microsoft.com/en-us/documentation/articles/java-download-azure-sdk/</a>

throughput	<a href="https://docs.microsoft.com/en-us/azure/storage/storage-scalability-targets">https://docs.microsoft.com/en-us/azure/storage/storage-scalability-targets</a>  check list <a href="https://docs.microsoft.com/en-us/azure/storage/storage-performance-checklist">https://docs.microsoft.com/en-us/azure/storage/storage-performance-checklist</a>  <a href="https://docs.microsoft.com/en-us/rest/api/storageservices/deciding-when-to-use-azure-blobs--azure-files--or-azure-data-disks">https://docs.microsoft.com/en-us/rest/api/storageservices/deciding-when-to-use-azure-blobs--azure-files--or-azure-data-disks</a>  shared disk <a href="https://stackoverflow.com/questions/19620645/shared-drive-between-azure-virtual-machines">https://stackoverflow.com/questions/19620645/shared-drive-between-azure-virtual-machines</a>
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## Operational data

Table	<a href="https://azure.microsoft.com/en-in/documentation/articles/storage-dotnet-how-to-use-tables/">https://azure.microsoft.com/en-in/documentation/articles/storage-dotnet-how-to-use-tables/</a>  <a href="https://github.com/azure/azure-storage-java">https://github.com/azure/azure-storage-java</a>
Sql Azure	<a href="https://azure.microsoft.com/en-in/documentation/articles/sql-database-get-started/">https://azure.microsoft.com/en-in/documentation/articles/sql-database-get-started/</a>
Cosmos	<a href="https://docs.microsoft.com/en-us/azure/cosmos-db/multi-region-writers">https://docs.microsoft.com/en-us/azure/cosmos-db/multi-region-writers</a>
DocumentDb	<a href="https://russellyoung.net/2016/06/18/managing-documentdb-with-powershell/">https://russellyoung.net/2016/06/18/managing-documentdb-with-powershell/</a> <a href="https://docs.microsoft.com/en-us/azure/documentdb/documentdb-manage-account-with-powershell">https://docs.microsoft.com/en-us/azure/documentdb/documentdb-manage-account-with-powershell</a> <a href="https://docs.microsoft.com/en-in/azure/documentdb/documentdb-get-started">https://docs.microsoft.com/en-in/azure/documentdb/documentdb-get-started</a>
GraphDb	<a href="https://blogs.msdn.microsoft.com/tsmatsuz/2017/07/04/azure-cosmos-db-gremlin-graph-tutorial/">https://blogs.msdn.microsoft.com/tsmatsuz/2017/07/04/azure-cosmos-db-gremlin-graph-tutorial/</a>  <a href="https://docs.microsoft.com/en-us/azure/cosmos-db/create-graph-gremlin-console">https://docs.microsoft.com/en-us/azure/cosmos-db/create-graph-gremlin-console</a> <a href="https://tinkerpop.apache.org/docs/current/reference/#gremlin-console">https://tinkerpop.apache.org/docs/current/reference/#gremlin-console</a>
Azure Batch	<a href="https://docs.microsoft.com/en-us/azure/batch/batch-account-create-portal">https://docs.microsoft.com/en-us/azure/batch/batch-account-create-portal</a>  <a href="https://docs.microsoft.com/en-us/azure/batch/batch-dotnet-get-started">https://docs.microsoft.com/en-us/azure/batch/batch-dotnet-get-started</a>
MySQL (preview)	
Postgres (Preview)	

## Analytical data

Azure Data Lake Store	<a href="https://docs.microsoft.com/en-us/azure/data-lake-store/data-lake-store-get-started-cli-2.0">https://docs.microsoft.com/en-us/azure/data-lake-store/data-lake-store-get-started-cli-2.0</a>  Data Lake vs Blob <a href="https://www.codit.eu/blog?tag=big%20data">https://www.codit.eu/blog?tag=big%20data</a>  pricing <a href="https://azure.microsoft.com/en-in/pricing/details/data-lake-store/">https://azure.microsoft.com/en-in/pricing/details/data-lake-store/</a> <a href="https://azure.microsoft.com/en-us/resources/videos/data-lake-billing-model/">https://azure.microsoft.com/en-us/resources/videos/data-lake-billing-model/</a>  compari
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<p>Azure Data Lake Analytics</p>	<p><a href="https://docs.microsoft.com/en-us/azure/data-lake-analytics/data-lake-analytics-get-started-portal">https://docs.microsoft.com/en-us/azure/data-lake-analytics/data-lake-analytics-get-started-portal</a></p> <p>USQL  <a href="https://docs.microsoft.com/en-us/azure/data-lake-analytics/data-lake-analytics-u-sql-get-started">https://docs.microsoft.com/en-us/azure/data-lake-analytics/data-lake-analytics-u-sql-get-started</a></p> <p><a href="https://msdn.microsoft.com/en-us/library/mt706196.aspx">https://msdn.microsoft.com/en-us/library/mt706196.aspx</a></p> <p><a href="https://raw.githubusercontent.com/Azure/Azure-DataFactory/master/Samples/U-SQL%20Sample%20Input%20File/SearchLog.tsv">https://raw.githubusercontent.com/Azure/Azure-DataFactory/master/Samples/U-SQL%20Sample%20Input%20File/SearchLog.tsv</a></p> <p>U-SQL vs Spark SQL  <a href="https://stackoverflow.com/questions/35575080/azure-spark-sql-vs-u-sql">https://stackoverflow.com/questions/35575080/azure-spark-sql-vs-u-sql</a></p> <p>case study  <a href="https://docs.microsoft.com/en-us/azure/machine-learning/machine-learning-data-science-process-data-lake-walkthrough">https://docs.microsoft.com/en-us/azure/machine-learning/machine-learning-data-science-process-data-lake-walkthrough</a></p>
<p>Azure Data Factory</p>	<p><a href="https://docs.microsoft.com/en-us/azure/data-factory/data-factory-azure-blob-connector">https://docs.microsoft.com/en-us/azure/data-factory/data-factory-azure-blob-connector</a></p> <p><a href="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-copy-activity-tutorial-using-azure-portal</a></p> <p><a href="https://docs.microsoft.com/en-us/azure/data-factory/data-factory-build-your-first-pipeline">https://docs.microsoft.com/en-us/azure/data-factory/data-factory-build-your-first-pipeline</a></p> <p><a href="https://docs.microsoft.com/en-us/azure/data-factory/data-factory-build-your-first-pipeline-using-editor">https://docs.microsoft.com/en-us/azure/data-factory/data-factory-build-your-first-pipeline-using-editor</a></p> <p><a href="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-copy-activity-tutorial-using-azure-portal</a></p> <p><a href="http://www.winwire.com/wp-content/uploads/2017/02/Step-by-Step-Azure-Data-Factory-Tutorials-1.pdf">http://www.winwire.com/wp-content/uploads/2017/02/Step-by-Step-Azure-Data-Factory-Tutorials-1.pdf</a></p> <p>Data Factory vs SSIS  <a href="http://www.radacad.com/wp-content/uploads/2016/05/SqlBits2016_RezaRad_ADFvsSSIS.pdf">http://www.radacad.com/wp-content/uploads/2016/05/SqlBits2016_RezaRad_ADFvsSSIS.pdf</a></p> <p><a href="http://www.jamesserra.com/archive/2017/03/azure-data-factory-and-ssis-compared/">http://www.jamesserra.com/archive/2017/03/azure-data-factory-and-ssis-compared/</a></p>

<p>Azure SQL Data Warehouse</p>	<p><a href="https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-get-started-tutorial">https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-get-started-tutorial</a></p> <p>loading data <a href="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-overview-load</a></p> <p><a href="https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-load-with-data-factory">https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-load-with-data-factory</a></p> <p>MPP vs Map Reduce <a href="https://www.flydata.com/blog/introduction-to-massively-parallel-processing/">https://www.flydata.com/blog/introduction-to-massively-parallel-processing/</a></p> <p>Sql server vs warehouse <a href="https://key2consulting.com/comparison-of-azure-sql-database-to-azure-sql-data-warehouse/">https://key2consulting.com/comparison-of-azure-sql-database-to-azure-sql-data-warehouse/</a></p> <p>Lake vs warehouse <a href="https://www.blue-granite.com/blog/bid/402596/top-five-differences-between-data-lakes-and-data-warehouses">https://www.blue-granite.com/blog/bid/402596/top-five-differences-between-data-lakes-and-data-warehouses</a></p> <p><a href="https://azure.microsoft.com/en-in/resources/videos/build-2016-azure-data-lake-and-azure-data-warehouse-applying-modern-practices-to-your-app/">https://azure.microsoft.com/en-in/resources/videos/build-2016-azure-data-lake-and-azure-data-warehouse-applying-modern-practices-to-your-app/</a></p>
<p>Machine Learning</p>	<p><a href="https://azure.microsoft.com/en-in/documentation/articles/machine-learning-create-experiment/">https://azure.microsoft.com/en-in/documentation/articles/machine-learning-create-experiment/</a></p> <p><a href="https://docs.microsoft.com/en-in/azure/machine-learning/machine-learning-publish-a-machine-learning-web-service">https://docs.microsoft.com/en-in/azure/machine-learning/machine-learning-publish-a-machine-learning-web-service</a></p> <p>PROCESS BLOB DATA <a href="https://docs.microsoft.com/en-us/azure/machine-learning/machine-learning-data-science-process-data-blob">https://docs.microsoft.com/en-us/azure/machine-learning/machine-learning-data-science-process-data-blob</a></p>
<p>HDInsight (Spark)</p>	<p><a href="https://azure.microsoft.com/en-in/documentation/articles/hdinsight-apache-spark-jupyter-spark-sql/">https://azure.microsoft.com/en-in/documentation/articles/hdinsight-apache-spark-jupyter-spark-sql/</a></p>
<p>Power BI</p>	
<h2>Streaming data</h2>	
<p>Event Hub</p>	<p><a href="https://azure.microsoft.com/en-in/documentation/articles/event-hubs-csharp-ephcs-getstarted/">https://azure.microsoft.com/en-in/documentation/articles/event-hubs-csharp-ephcs-getstarted/</a> <a href="https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-dotnet-standard-getstarted-receive-eph">https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-dotnet-standard-getstarted-receive-eph</a></p> <p>CSV: <a href="https://stackoverflow.com/questions/30868467/how-to-send-data-as-csv-on-eventhub-for-azure-stream-analytics/30870640">https://stackoverflow.com/questions/30868467/how-to-send-data-as-csv-on-eventhub-for-azure-stream-analytics/30870640</a></p> <p>Java: works with only java 8</p>

IOT Hub	<a href="https://azureiotcost.azurewebsites.net/">https://azureiotcost.azurewebsites.net/</a> <a href="https://www.codeproject.com/Articles/1173356/Azure-IoT-Hub-Tester">https://www.codeproject.com/Articles/1173356/Azure-IoT-Hub-Tester</a>  IOT Hub -> storage <a href="https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-store-data-in-azure-table-storage">https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-store-data-in-azure-table-storage</a>  Microsoft_Azure_IoT_Reference_Architecture.pdf  <a href="https://azure.microsoft.com/en-in/documentation/articles/iot-hub-csharp-csharp-getstarted/">https://azure.microsoft.com/en-in/documentation/articles/iot-hub-csharp-csharp-getstarted/</a>  <a href="https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-java-java-getstarted">https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-java-java-getstarted</a> an IoT Hub is 9 to 53 times more expensive than an Event Hub default AMQP protocol, change to http works only with java 8 configure raspberry pi <a href="https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-raspberry-pi-kit-node-lesson1-configure-your-device">https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-raspberry-pi-kit-node-lesson1-configure-your-device</a> rasberry pi example Device SDK <a href="https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-raspberry-pi-kit-node-get-started">https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-raspberry-pi-kit-node-get-started</a> Service SDK Gateway SDK <a href="https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-gateway-kit-c-get-started">https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-gateway-kit-c-get-started</a>  kafka vs not hub <a href="https://blogs.msdn.microsoft.com/opensourcemsft/2015/08/08/choosing-between-azure-event-hub-and-kafka-what-you-need-to-know/">https://blogs.msdn.microsoft.com/opensourcemsft/2015/08/08/choosing-between-azure-event-hub-and-kafka-what-you-need-to-know/</a>
Kafka (preview)	
Stream Analytics	<a href="https://www.codit.eu/blog/2015/01/azure-stream-analytics-getting-started/">https://www.codit.eu/blog/2015/01/azure-stream-analytics-getting-started/</a>  <a href="https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-real-time-fraud-detection">https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-real-time-fraud-detection</a>  <pre> SELECT     System.Timestamp AS WindowEnd,     Name,     COUNT(*) INTO     output1 FROM     input1     where Age &gt; 25 GROUP BY Name , TUMBLINGWINDOW(minute, 1) </pre>
Azure HDInsight (Storm, Spark streaming)	
Messaging	
Queue	<a href="https://azure.microsoft.com/en-in/documentation/articles/storage-dotnet-how-to-use-queues/">https://azure.microsoft.com/en-in/documentation/articles/storage-dotnet-how-to-use-queues/</a>
Service Bus Queue	<a href="https://gist.github.com/rberrelleza/2221610">https://gist.github.com/rberrelleza/2221610</a>  <a href="https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-manage-with-ps">https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-manage-with-ps</a>  <a href="https://azure.microsoft.com/en-in/documentation/articles/service-bus-dotnet-get-started-with-queues/">https://azure.microsoft.com/en-in/documentation/articles/service-bus-dotnet-get-started-with-queues/</a>
Service Bus Topic	<a href="https://azure.microsoft.com/en-in/documentation/articles/service-bus-dotnet-how-to-use-topics-subscriptions/">https://azure.microsoft.com/en-in/documentation/articles/service-bus-dotnet-how-to-use-topics-subscriptions/</a>

Notification Hub	
Patterns	<p>Command Message( Queue)  <a href="http://www.enterpriseintegrationpatterns.com/patterns/messaging/CommandMessage.html">http://www.enterpriseintegrationpatterns.com/patterns/messaging/CommandMessage.html</a></p> <p>Request-Reply (Queue)  <a href="http://www.enterpriseintegrationpatterns.com/patterns/messaging/RequestReply.html">http://www.enterpriseintegrationpatterns.com/patterns/messaging/RequestReply.html</a></p> <p>Event Message (Queue)  <a href="http://www.enterpriseintegrationpatterns.com/patterns/messaging/EventMessage.html">http://www.enterpriseintegrationpatterns.com/patterns/messaging/EventMessage.html</a></p>
Computation	
Web App	<p><a href="http://almirvuk.blogspot.in/2015/12/how-to-upload-web-site-to-azure-with.html">http://almirvuk.blogspot.in/2015/12/how-to-upload-web-site-to-azure-with.html</a>  Auto Scale:  <a href="https://blogs.msdn.microsoft.com/devschool/2015/05/24/azure-how-to-auto-scale-your-web-apps-web-sites/deployment-slots">https://blogs.msdn.microsoft.com/devschool/2015/05/24/azure-how-to-auto-scale-your-web-apps-web-sites/deployment-slots</a> :  <a href="https://azure.microsoft.com/en-in/documentation/articles/web-sites-staged-publishing/">https://azure.microsoft.com/en-in/documentation/articles/web-sites-staged-publishing/</a></p> <p>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.</p> <p><b>Scale Up:</b>  <a href="https://azure.microsoft.com/en-in/documentation/articles/web-sites-scale/">https://azure.microsoft.com/en-in/documentation/articles/web-sites-scale/</a></p> <p>Load Test  <a href="https://www.visualstudio.com/en-us/docs/test/performance-testing/app-service-web-app-performance-test">https://www.visualstudio.com/en-us/docs/test/performance-testing/app-service-web-app-performance-test</a></p>
CDN Cache	<p><a href="https://azure.microsoft.com/en-us/documentation/articles/cdn-create-a-storage-account-with-cdn/">https://azure.microsoft.com/en-us/documentation/articles/cdn-create-a-storage-account-with-cdn/</a>  <a href="http://&lt;StorageAccountLabel&gt;.blob.core.windows.net/&lt;mycontainer&gt;/myblob">http://&lt;StorageAccountLabel&gt;.blob.core.windows.net/&lt;mycontainer&gt;/myblob</a>  <a href="http://&lt;endpointname&gt;.azureedge.net/&lt;mycontainer&gt;/myblob">http://&lt;endpointname&gt;.azureedge.net/&lt;mycontainer&gt;/myblob</a></p>
Redis Cache	<p><a href="https://azure.microsoft.com/en-in/documentation/articles/cache-dotnet-how-to-use-azure-redis-cache/">https://azure.microsoft.com/en-in/documentation/articles/cache-dotnet-how-to-use-azure-redis-cache/</a></p>
Web Job	<p><a href="https://azure.microsoft.com/en-in/documentation/articles/web-sites-create-web-jobs/">https://azure.microsoft.com/en-in/documentation/articles/web-sites-create-web-jobs/</a></p>
Function	<p>Built on top of WebJobSDK  <a href="https://azure.microsoft.com/en-us/documentation/articles/functions-create-first-azure-function/">https://azure.microsoft.com/en-us/documentation/articles/functions-create-first-azure-function/</a></p> <p><a href="https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-event-hubs">https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-event-hubs</a></p> <p><a href="http://www.hanselman.com/blog/WhatsServerlessComputingExploringAzureFunctions.aspx">http://www.hanselman.com/blog/WhatsServerlessComputingExploringAzureFunctions.aspx</a>  <a href="http://figmwt.github.io/azure/azure-functions/c-sharp/2016/04/04/azure-fns-with-ci.html">http://figmwt.github.io/azure/azure-functions/c-sharp/2016/04/04/azure-fns-with-ci.html</a>  <a href="https://www.codeproject.com/Articles/1110663/Azure-Functions-Tutorial-SQL-Database">https://www.codeproject.com/Articles/1110663/Azure-Functions-Tutorial-SQL-Database</a></p>



Service Fabric	<p>replacing cloud service</p> <p>install :</p> <p><a href="https://blog.geist.no/azure-service-fabric-introduction-getting-it-running/">https://blog.geist.no/azure-service-fabric-introduction-getting-it-running/</a></p> <p><a href="https://azure.microsoft.com/en-us/documentation/articles/service-fabric-get-started/">https://azure.microsoft.com/en-us/documentation/articles/service-fabric-get-started/</a></p> <p><a href="https://azure.microsoft.com/en-in/documentation/articles/service-fabric-reliable-services-quick-start/">https://azure.microsoft.com/en-in/documentation/articles/service-fabric-reliable-services-quick-start/</a></p> <p><a href="https://rahulrai.in/post/hands-on-with-azure-service-fabric-reliable-services/">https://rahulrai.in/post/hands-on-with-azure-service-fabric-reliable-services/</a></p> <p>Guest Container</p> <p>Services packaged into Windows or Linux containers managed by Docker. Guest executables</p> <p>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.</p> <p>Reliable Services</p> <p>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.</p> <p>Reliable Actors</p> <p><a href="https://mikhail.io/2016/01/fire-and-forget-in-service-fabric-actors/">https://mikhail.io/2016/01/fire-and-forget-in-service-fabric-actors/</a></p> <p><a href="https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-reliable-actors-get-started">https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-reliable-actors-get-started</a></p>
Facade	
Application GateWay	<p>The Application Gateway uses Azure Load Balancer at the transport level and then applies the routing rules to support layer-7 ( HTTP) load balancing.</p> <p>features</p> <p><a href="https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-introduction">https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-introduction</a></p> <p>getting started</p> <p><a href="https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-create-gateway-portal">https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-create-gateway-portal</a></p> <p>with ilb</p> <p><a href="https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-ilb-arm">https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-ilb-arm</a></p> <p>Ubuntu VM Scale Set with Application Gateway Integration</p> <p><a href="https://github.com/Azure/azure-quickstart-templates/tree/master/201-vmss-ubuntu-app-gateway">https://github.com/Azure/azure-quickstart-templates/tree/master/201-vmss-ubuntu-app-gateway</a></p> <p>content based routing</p> <p><a href="https://vincentlauzon.com/2017/05/08/url-routing-with-azure-application-gateway/">https://vincentlauzon.com/2017/05/08/url-routing-with-azure-application-gateway/</a></p>
Relay	<p><a href="https://azure.microsoft.com/en-in/documentation/articles/service-bus-relay-tutorial/">https://azure.microsoft.com/en-in/documentation/articles/service-bus-relay-tutorial/</a></p>
Traffic Manager	<p><a href="https://blogs.technet.microsoft.com/canitpro/2015/02/09/step-by-step-managing-traffic-for-workloads-in-azure/">https://blogs.technet.microsoft.com/canitpro/2015/02/09/step-by-step-managing-traffic-for-workloads-in-azure/</a></p>

Api Management	<p>get started  <a href="https://docs.microsoft.com/en-us/azure/api-management/api-management-get-started">https://docs.microsoft.com/en-us/azure/api-management/api-management-get-started</a>  limit  <a href="https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-product-with-rules">https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-product-with-rules</a>  cache  <a href="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-howto-cache-vnet</a>  vnet  <a href="https://docs.microsoft.com/en-us/azure/api-management/api-management-using-with-vnet">https://docs.microsoft.com/en-us/azure/api-management/api-management-using-with-vnet</a>  azure ad  <a href="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-protect-backend-with-aad</a>  <a href="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-aad-oauth</a>  oauth  <a href="https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-oauth2">https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-oauth2</a></p>
Security	
	<a href="https://docs.microsoft.com/en-us/azure/security/azure-security-services-technologies">https://docs.microsoft.com/en-us/azure/security/azure-security-services-technologies</a>
Service Principal vs User Identity	<p>azure ad app create --display-name "climanager" --homepage "http://localhost/climanager" --identifier-uri "http://localhost/climanager" --password "spielpassword"</p> <p>az ad sp create-for-rbac --name "jack" --password "spielpassword"</p> <p><a href="https://docs.microsoft.com/en-us/cli/azure/create-an-azure-service-principal-azure-cli">https://docs.microsoft.com/en-us/cli/azure/create-an-azure-service-principal-azure-cli</a></p>
Shared Access Signature	<p><a href="https://buildazure.com/2017/05/23/azure-cli-2-0-generate-sas-token-for-blob-in-azure-storage/">https://buildazure.com/2017/05/23/azure-cli-2-0-generate-sas-token-for-blob-in-azure-storage/</a></p> <p><a href="https://azure.microsoft.com/en-in/documentation/articles/storage-dotnet-shared-access-signature-part-2/">https://azure.microsoft.com/en-in/documentation/articles/storage-dotnet-shared-access-signature-part-2/</a>  GetBlobSasUriWithPolicy  CloudBlockBlob cloudBlockBlob = new CloudBlockBlob("http://127.0.0.1:.../temp/sastest.txt.");  cloudBlockBlob.Delete();  java : <a href="https://blog.persistent.com/index.php/2012/06/22/windows-azure-and-java-working-with-blob-storage/">https://blog.persistent.com/index.php/2012/06/22/windows-azure-and-java-working-with-blob-storage/</a></p>
Storage Service Encryption (SSE)	<p><a href="https://docs.microsoft.com/en-us/azure/storage/storage-service-encryption">https://docs.microsoft.com/en-us/azure/storage/storage-service-encryption</a></p> <p><a href="https://docs.microsoft.com/en-us/azure/storage/common/storage-service-encryption-customer-managed-keys?toc=%2fazure%2fstorage%2fblobs%2ftoc.json">https://docs.microsoft.com/en-us/azure/storage/common/storage-service-encryption-customer-managed-keys?toc=%2fazure%2fstorage%2fblobs%2ftoc.json</a></p>
Azure Disk Encryption (ADE)	<a href="https://docs.microsoft.com/en-us/azure/virtual-machines/scripts/virtual-machines-linux-cli-sample-encrypt-vm">https://docs.microsoft.com/en-us/azure/virtual-machines/scripts/virtual-machines-linux-cli-sample-encrypt-vm</a>
role based access (RBAC)	<p><a href="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-control-configure</a></p> <p><a href="https://docs.microsoft.com/en-us/azure/active-directory/role-based-access-built-in-roles">https://docs.microsoft.com/en-us/azure/active-directory/role-based-access-built-in-roles</a></p>

Security Center	<a href="https://docs.microsoft.com/en-us/azure/security-center/security-center-intro">https://docs.microsoft.com/en-us/azure/security-center/security-center-intro</a> <a href="https://docs.microsoft.com/en-us/azure/security-center/security-center-get-started">https://docs.microsoft.com/en-us/azure/security-center/security-center-get-started</a> <a href="https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-azure-security">https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-azure-security</a>
key vault	<a href="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-manage-with-cli</a>  <a href="https://docs.microsoft.com/en-us/azure/key-vault/key-vault-get-started">https://docs.microsoft.com/en-us/azure/key-vault/key-vault-get-started</a>
Client Side Encryption	<a href="https://docs.microsoft.com/en-us/azure/storage/storage-encrypt-decrypt-blobs-key-vault">https://docs.microsoft.com/en-us/azure/storage/storage-encrypt-decrypt-blobs-key-vault</a>
best practices	<a href="https://docs.microsoft.com/en-us/azure/storage/storage-security-guide">https://docs.microsoft.com/en-us/azure/storage/storage-security-guide</a>
web app - service environment	<a href="https://docs.microsoft.com/en-us/azure/app-service-web/app-service-app-service-environment-intro">https://docs.microsoft.com/en-us/azure/app-service-web/app-service-app-service-environment-intro</a>
Network Security	<p>list of features  <a href="https://docs.microsoft.com/en-us/azure/virtual-network/resource-groups-networking">https://docs.microsoft.com/en-us/azure/virtual-network/resource-groups-networking</a></p> <p><a href="https://opbuildstorageprod.blob.core.windows.net/output-pdf-files/en-us/Azure.azure-documents/live/virtual-network.pdf">https://opbuildstorageprod.blob.core.windows.net/output-pdf-files/en-us/Azure.azure-documents/live/virtual-network.pdf</a></p> <p>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.</p> <p><a href="https://campus.barracuda.com/product/nextgenfirewallf/article/NGF62/AzureARMUDRWebPortal/">https://campus.barracuda.com/product/nextgenfirewallf/article/NGF62/AzureARMUDRWebPortal/</a></p> <p><a href="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-network-create-udr-arm-ps</a></p> <p><a href="https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-udr-overview">https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-udr-overview</a></p> <p>practice  <a href="https://docs.microsoft.com/en-us/azure/security/azure-security-network-security-best-practices">https://docs.microsoft.com/en-us/azure/security/azure-security-network-security-best-practices</a></p> <p><a href="https://docs.microsoft.com/en-us/azure/best-practices-network-security?toc=%2fazure%2fvirtual-network%2ftoc.json">https://docs.microsoft.com/en-us/azure/best-practices-network-security?toc=%2fazure%2fvirtual-network%2ftoc.json</a></p> <p><a href="https://blogs.msdn.microsoft.com/igorpag/2016/05/14/azure-network-security-groups-nsg-best-practices-and-lessons-learned/">https://blogs.msdn.microsoft.com/igorpag/2016/05/14/azure-network-security-groups-nsg-best-practices-and-lessons-learned/</a></p> <p><b>case Study</b>  <a href="https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm?toc=%2fazure%2fnetworking%2ftoc.json">https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm?toc=%2fazure%2fnetworking%2ftoc.json</a></p>

VPN	<p><b>point to site</b>  <a href="https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-point-to-site-resource-manager-portal">https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-point-to-site-resource-manager-portal</a></p> <p><a href="https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-point-to-site-rm-ps">https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-point-to-site-rm-ps</a></p> <p><b>site to site</b>  <a href="https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-site-to-site-resource-manager-cli">https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-site-to-site-resource-manager-cli</a>  <a href="http://www.rebeladmin.com/2016/12/step-step-guide-configure-site-site-vpn-gateway-connection-azure-premises-network/">http://www.rebeladmin.com/2016/12/step-step-guide-configure-site-site-vpn-gateway-connection-azure-premises-network/</a></p> <p><a href="https://blogs.technet.microsoft.com/canitpro/2016/01/11/step-by-step-connect-your-aws-and-azure-environments-with-a-vpn-tunnel/">https://blogs.technet.microsoft.com/canitpro/2016/01/11/step-by-step-connect-your-aws-and-azure-environments-with-a-vpn-tunnel/</a></p> <p><b>site to multisite</b></p> <p><b>vnet to vnet</b>  <a href="https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-vnet-vnet-cli">https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-vnet-vnet-cli</a></p> <p><b>express route</b>  <a href="https://docs.microsoft.com/en-us/azure/expressroute/expressroute-connectivity-models">https://docs.microsoft.com/en-us/azure/expressroute/expressroute-connectivity-models</a></p> <p>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.</p>
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## Management

Monitoring	<p><a href="https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-get-started">https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-get-started</a></p> <p><a href="https://try.newrelic.com/rs/newrelic/images/Azure_Getting-Started-Guide_FINAL.pdf">https://try.newrelic.com/rs/newrelic/images/Azure_Getting-Started-Guide_FINAL.pdf</a></p> <p><a href="https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-monitoring">https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-monitoring</a></p> <p>diagnostic logs  <a href="https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-overview-of-diagnostic-logs">https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-overview-of-diagnostic-logs</a></p> <p>activity logs  <a href="https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-overview-activity-logs">https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-overview-activity-logs</a></p>
Azure Automation DSC	<p><a href="https://docs.microsoft.com/en-us/azure/automation/automation-dsc-getting-started">https://docs.microsoft.com/en-us/azure/automation/automation-dsc-getting-started</a></p> <p>logs  <a href="https://docs.microsoft.com/en-us/azure/automation/automation-runbook-output-and-messages">https://docs.microsoft.com/en-us/azure/automation/automation-runbook-output-and-messages</a></p>
Chef DSC	<p><a href="https://www.opsgility.com/blog/2016/01/19/using-chef-on-azure/">https://www.opsgility.com/blog/2016/01/19/using-chef-on-azure/</a></p> <p><a href="https://tryazuremarketplace.com/pdfs/Chef_on_Azure.pdf">https://tryazuremarketplace.com/pdfs/Chef_on_Azure.pdf</a></p> <p><a href="https://vishwanathsrikanth.wordpress.com/2015/01/11/desired-state-configuration-using-chef-knife-on-azure-part-2/">https://vishwanathsrikanth.wordpress.com/2015/01/11/desired-state-configuration-using-chef-knife-on-azure-part-2/</a></p>

Automation	<a href="https://codehollow.com/2016/07/automatically-shutdown-virtual-machines-azure/">https://codehollow.com/2016/07/automatically-shutdown-virtual-machines-azure/</a> <a href="http://www.nullfactory.net/2016/11/scheduling-the-uptime-of-an-azure-virtual-machine/">http://www.nullfactory.net/2016/11/scheduling-the-uptime-of-an-azure-virtual-machine/</a> <a href="http://theithollow.com/2016/09/19/get-started-azure-automation/">http://theithollow.com/2016/09/19/get-started-azure-automation/</a>  logs  <a href="https://msdn.microsoft.com/en-us/powershell/dsc/logresource">https://msdn.microsoft.com/en-us/powershell/dsc/logresource</a>  <a href="https://msdn.microsoft.com/en-us/powershell/dsc/debugresource">https://msdn.microsoft.com/en-us/powershell/dsc/debugresource</a>
CI/CD	<a href="https://docs.microsoft.com/en-us/azure/jenkins/java-deploy-webapp-tutorial">https://docs.microsoft.com/en-us/azure/jenkins/java-deploy-webapp-tutorial</a>  <a href="https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-jenkins-github-docker-cicd">https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-jenkins-github-docker-cicd</a>  <a href="https://docs.microsoft.com/en-us/azure/container-service/container-service-kubernetes-jenkins">https://docs.microsoft.com/en-us/azure/container-service/container-service-kubernetes-jenkins</a>  <a href="https://docs.microsoft.com/en-us/azure/virtual-machines/windows/chef-automation">https://docs.microsoft.com/en-us/azure/virtual-machines/windows/chef-automation</a>  <a href="http://carolynvanslyck.com/blog/2013/02/setting-up-jenkins-on-azure/">http://carolynvanslyck.com/blog/2013/02/setting-up-jenkins-on-azure/</a>  <a href="https://www.visualstudio.com/en-us/docs/build/get-started/aspnet-4-ci-cd-azure-automatic">https://www.visualstudio.com/en-us/docs/build/get-started/aspnet-4-ci-cd-azure-automatic</a>
Backup and Recovery	<b>Backup Vault (classic) Recovery Service (RM) Intro</b> <a href="https://docs.microsoft.com/en-us/azure/backup/backup-azure-vms-introduction">https://docs.microsoft.com/en-us/azure/backup/backup-azure-vms-introduction</a>  <b>backup</b> <a href="https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-backup-">https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-backup-</a>  <b>Recovery service</b> <a href="https://docs.microsoft.com/en-us/azure/backup/backup-azure-vms-first-look-arm">https://docs.microsoft.com/en-us/azure/backup/backup-azure-vms-first-look-arm</a>  <b>disaster recovery</b> <a href="https://docs.microsoft.com/en-us/azure/storage/storage-redundancy">https://docs.microsoft.com/en-us/azure/storage/storage-redundancy</a>
Pricing	<a href="https://stackify.com/lower-azure-pricing-optimize-costs/">https://stackify.com/lower-azure-pricing-optimize-costs/</a>  <a href="https://azure.microsoft.com/en-in/pricing/">https://azure.microsoft.com/en-in/pricing/</a>  <a href="https://azure.microsoft.com/en-in/pricing/calculator/">https://azure.microsoft.com/en-in/pricing/calculator/</a>
Visual Studio Team Service	<a href="http://www.c-sharpcorner.com/article/getting-started-with-visual-studio-team-services/">http://www.c-sharpcorner.com/article/getting-started-with-visual-studio-team-services/</a>  <a href="https://mitra.computa.asia/article/msdn-getting-started-using-visual-studio-team-services-vsts-source-control">https://mitra.computa.asia/article/msdn-getting-started-using-visual-studio-team-services-vsts-source-control</a>

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)