**Useful Links:**

**Azure:-**

* Azure Portal :

<https://portal.azure.com/>

* Setup Microsoft Azure Pass Promo Code account:

www.microsoftazurepass.com

* Guide to Redeeming a Microsoft Azure Pass Promo Code:

https://www.microsoftazurepass.com/Home/HowTo?Length=5

* Azure Free account with credit card details:

<https://azure.microsoft.com/en-in/free/>

* Guide to Azure Free account with credit card details:

<https://docs.microsoft.com/en-us/learn/modules/create-an-azure-account/3-exercise-create-an-azure-account>

**Azure Storage Account:-**

* Create ADLS gen 2 using portal

       https://docs.microsoft.com/en-us/azure/storage/blobs/create-data-lake-storage-account

* Azure Storage redundancy

<https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy>

* Azure Paired Regions

<https://docs.microsoft.com/en-us/azure/best-practices-availability-paired-regions>

* Azure Storage services

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

* Manage Storage using PowerShell

<https://docs.microsoft.com/en-us/azure/storage/blobs/data-lake-storage-directory-file-acl-powershell>

* Create Storage using PowerShell

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-quickstart-blobs-powershell>

**Azure SQL:-**

* Create Azure SQL (Singletone):

<https://docs.microsoft.com/en-us/azure/azure-sql/database/single-database-create-quickstart?tabs=azure-portal>

* Create Elastic SQL:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/elastic-pool-overview#creating-a-new-sql-database-elastic-pool-using-the-azure-portal>

* Create SQL Managed instance:

<https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/instance-create-quickstart>

* Create SQL on VM:

<https://docs.microsoft.com/en-us/azure/azure-sql/virtual-machines/windows/sql-vm-create-portal-quickstart>

* Vcore model

<https://docs.microsoft.com/en-us/azure/azure-sql/database/service-tiers-vcore?view=azuresql>

* DTU model

<https://docs.microsoft.com/en-us/azure/azure-sql/database/service-tiers-dtu?view=azuresql>

**Azure Synapse Analytics:-**

* Synapse architecture:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/overview-architecture>

* Compute node distribution in synapse

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

* Load data into dedicated pool:

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/best-practices-dedicated-sql-pool

* Indexing in Synapse dedicated pool:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-index>

<https://docs.microsoft.com/en-us/sql/relational-databases/indexes/clustered-and-nonclustered-indexes-described?toc=%2Fazure%2Fsynapse-analytics%2Fsql-data-warehouse%2Ftoc.json&bc=%2Fazure%2Fsynapse-analytics%2Fsql-data-warehouse%2Fbreadcrumb%2Ftoc.json&view=sql-server-ver15&preserve-view=true&viewFallbackFrom=azure-sqldw-latest>

* Distribution in Synapse dedicated pool:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-distribute>

* Materialized view in Synapse dedicated pool:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/performance-tuning-materialized-views>

* Partitioning in Synapse dedicated pool:

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-partition

scd

https://docs.microsoft.com/en-us/learn/modules/populate-slowly-changing-dimensions-azure-synapse-analytics-pipelines/