**Add Database into Availability Group using PowerShell**

***Synopsis:***

Adds database to Availability group either primary or secondary or both.

***Description:***

Upon passing servername and database name function adds database by checking if database is present in Primary and Secondary. Function programmatically finds Primary and secondary nodes. Checks if database mentioned is on primary\secondary. If Database is not present on both primary and secondary, then function asks for source database for backup and restore. If database is present on primary but not on secondary, scripts performs backup of one full and one log backup of database and restores it on secondary. If database is present on secondary but not on primary scripts performs backup of one full and one log backup of database and restores it on primary, then once database is part of primary AG node, then it again performs backup of one full and one log backup of database and restores it on secondary.

***Parameters:***

servername(Mandatory)

Hostname\Instancename where Availability group is present.

database(Mandatory)

Name of database which you want into Availability group.

***Example 1***

***Add-MT\_AG\_DB -servername hostname\instancename -database databasename***

* Adding single database on single server.

***Example 2***

***$dbs=('db1','db2','db3')***

***$dbs.GetEnumerator().foreach{Add-MT\_AG\_DB -servername hostname\instancename -database $\_}***

* Adding all databases in the array list $dbs on server hostname\instancename

***Example 3***

***$backupinfo = Backup-MT\_SQLDB -backupsever hostname1\instancename1 -backupdatabase db1***

* Backup required database from source

***Restore-MT\_SQLDB -restoreservername hostname2\instancename2 -restoredatabase db2 -backuplocation $backupinfo.uncpath***

* Restore database on destination server using $backupinfo.uncpath file location.

***Add-MT\_AG\_DB -servername hostname2\instancename2 -database db2***

* Adding database to AG.

***Example 4:***

***Backup-MT\_DDBOOST\_DB -servername servername\instancename -database database1***

* Backup required database using DDBoost \*Note down the time stamp of backup.

***Restore-MT\_DDBoost\_DB -backupserver hostname1\instancename1 -backupDB databasename1 -RestoreServer hostname2\instancename2 -RestoreDB databasename2 -timestamp "MM/DD/YYYY HH:MM:SS AM\PM"***

* Use Timestamp copied above to restore database to same point of time.

***Add-MT\_AG\_DB -servername hostname2\instancename2 -database databasename2***