Windows PowerShell Get-Help on Cmdlet 'Restore-AzSqlDatabase'

PS:\>Get-HELP Restore-AzSqlDatabase -Full

NAME

Restore-AzSqlDatabase

SYNOPSIS

Restores a SQL database.

SYNTAX

Restore-AzSqlDatabase [-ResourceGroupName] <System.String> [-AsJob] [-AssignIdentity] [-BackupStorageRedundancy {Local | Zone | Geo | GeoZone}] -ComputeGeneration <System.String> [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -Edition <System.String> [-EncryptionProtector <System.String>] [-EncryptionProtectorAutoRotation] [-FederatedClientId <System.Nullable`1[System.Guid]>] -FromPointInTimeBackup [-HAReplicaCount <System.Int32>] [-KeyList <System.String[]>] [-LicenseType <System.String>] -PointInTime <System.DateTime> -ResourceId <System.String> -ServerName <System.String> [-Tag <System.Collections.Hashtable>] -TargetDatabaseName <System.String> [-UserAssignedIdentityId <System.String[]>] -VCore <System.Int32> [-ZoneRedundant] [-Confirm] [-WhatIf] [<CommonParameters>]

Restore-AzSqlDatabase [-ResourceGroupName] <System.String> [-AsJob] [-AssignIdentity] [-BackupStorageRedundancy {Local | Zone | Geo | GeoZone}] -ComputeGeneration <System.String> [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -DeletionDate <System.DateTime> -Edition <System.String> [-EncryptionProtector <System.String>] [-EncryptionProtectorAutoRotation] [-FederatedClientId <System.Nullable`1[System.Guid]>] -FromDeletedDatabaseBackup [-HAReplicaCount <System.Int32>] [-KeyList <System.String[]>] [-LicenseType <System.String>] [-PointInTime <System.DateTime>] -ResourceId <System.String> -ServerName <System.String> [-Tag <System.Collections.Hashtable>] -TargetDatabaseName <System.String> [-UserAssignedIdentityId <System.String[]>] -VCore <System.Int32> [-ZoneRedundant] [-Confirm] [-WhatIf] [<CommonParameters>]

Restore-AzSqlDatabase [-ResourceGroupName] <System.String> [-AsJob] [-AssignIdentity] [-BackupStorageRedundancy {Local | Zone | Geo | GeoZone}] -ComputeGeneration <System.String> [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -Edition <System.String> [-EncryptionProtector <System.String>] [-EncryptionProtectorAutoRotation] [-FederatedClientId <System.Nullable`1[System.Guid]>] -FromGeoBackup [-HAReplicaCount <System.Int32>] [-KeyList <System.String[]>] [-LicenseType <System.String>] -ResourceId <System.String> -ServerName <System.String> [-Tag <System.Collections.Hashtable>] -TargetDatabaseName <System.String> [-UserAssignedIdentityId <System.String[]>] -VCore <System.Int32> [-ZoneRedundant] [-Confirm] [-WhatIf] [<CommonParameters>]

Restore-AzSqlDatabase [-ResourceGroupName] <System.String> [-AsJob] [-AssignIdentity] [-BackupStorageRedundancy {Local | Zone | Geo | GeoZone}] -ComputeGeneration <System.String> [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -Edition <System.String> [-EncryptionProtector <System.String>] [-EncryptionProtectorAutoRotation] [-FederatedClientId

<System.Nullable`1[System.Guid]>] -FromLongTermRetentionBackup

[-HAReplicaCount <System.Int32>] [-KeyList <System.String[]>] [-LicenseType <System.String>] -ResourceId <System.String> -ServerName <System.String> [-Tag

<System.Collections.Hashtable>] -TargetDatabaseName <System.String> [-UserAssignedIdentityId <System.String[]>] -VCore <System.Int32> [-ZoneRedundant] [-Confirm]

[-WhatIf] [<CommonParameters>]

Restore-AzSqlDatabase [-ResourceGroupName] <System.String> [-AsJob] [-AssignIdentity] [-BackupStorageRedundancy {Local | Zone | Geo | GeoZone}] [-DefaultProfile

<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -DeletionDate <System.DateTime> [-Edition <System.String>]

[-ElasticPoolName <System.String>] [-EncryptionProtector <System.String>] [-EncryptionProtectorAutoRotation] [-FederatedClientId <System.Nullable`1[System.Guid]>]

-FromDeletedDatabaseBackup [-HAReplicaCount <System.Int32>] [-KeyList <System.String[]>] [-LicenseType <System.String>] [-PointInTime <System.DateTime>] -ResourceId

<System.String> -ServerName <System.String> [-ServiceObjectiveName <System.String>] [-Tag <System.Collections.Hashtable>] -TargetDatabaseName <System.String>

[-UserAssignedIdentityId <System.String[]>] [-ZoneRedundant] [-Confirm] [-WhatIf] [<CommonParameters>]

Restore-AzSqlDatabase [-ResourceGroupName] <System.String> [-AsJob] [-AssignIdentity] [-BackupStorageRedundancy {Local | Zone | Geo | GeoZone}] [-DefaultProfile

<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Edition <System.String>] [-ElasticPoolName <System.String>]

[-EncryptionProtector <System.String>] [-EncryptionProtectorAutoRotation] [-FederatedClientId <System.Nullable`1[System.Guid]>] -FromPointInTimeBackup

[-HAReplicaCount <System.Int32>] [-KeyList <System.String[]>] [-LicenseType <System.String>] -PointInTime <System.DateTime> -ResourceId <System.String> -ServerName

<System.String> [-ServiceObjectiveName <System.String>] [-Tag <System.Collections.Hashtable>] -TargetDatabaseName <System.String> [-UserAssignedIdentityId

<System.String[]>] [-ZoneRedundant] [-Confirm] [-WhatIf] [<CommonParameters>]

Restore-AzSqlDatabase [-ResourceGroupName] <System.String> [-AsJob] [-AssignIdentity] [-BackupStorageRedundancy {Local | Zone | Geo | GeoZone}] [-DefaultProfile

<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Edition <System.String>] [-ElasticPoolName <System.String>]
[-EncryptionProtector <System.String>] [-EncryptionProtectorAutoRotation] [-FederatedClientId <System.Nullable`1[System.Guid]>] -FromGeoBackup [-HAReplicaCount
<System.Int32>] [-KeyList <System.String[]>] [-LicenseType <System.String>] -ResourceId <System.String> -ServerName <System.String> [-ServiceObjectiveName
<System.String>] [-Tag <System.Collections.Hashtable>] -TargetDatabaseName <System.String> [-UserAssignedIdentityId <System.String[]>] [-ZoneRedundant] [-Confirm]
[-WhatIf] [<CommonParameters>]

Restore-AzSqlDatabase [-ResourceGroupName] <System.String> [-AsJob] [-AssignIdentity] [-BackupStorageRedundancy {Local | Zone | Geo | GeoZone}] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Edition <System.String>] [-ElasticPoolName <System.String>]
[-EncryptionProtector <System.String>] [-EncryptionProtectorAutoRotation] [-FederatedClientId <System.Nullable`1[System.Guid]>] -FromLongTermRetentionBackup
[-HAReplicaCount <System.Int32>] [-KeyList <System.String[]>] [-LicenseType <System.String>] -ResourceId <System.String> -ServerName <System.String>
[-ServiceObjectiveName <System.String>] [-Tag <System.Collections.Hashtable>] -TargetDatabaseName <System.String> [-UserAssignedIdentityId <System.String[]>]
[-ZoneRedundant] [-Confirm] [-WhatIf] [<CommonParameters>]

DESCRIPTION

The Restore-AzSqlDatabase cmdlet restores a SQL database from a geo-redundant backup, a backup of a deleted database, a long term retention backup, or a point in time
in a live database. The restored database is created as a new database. You can create an elastic SQL database by setting the ElasticPoolName parameter to an existing
elastic pool. You can also perform a cross subscription restore for a datawarehouse database.

PARAMETERS

-AsJob <System.Management.Automation.SwitchParameter>

Run cmdlet in the background

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-AssignIdentity <System.Management.Automation.SwitchParameter>

Generate and assign a Microsoft Entra identity for this database for use with key management services like Azure KeyVault.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-BackupStorageRedundancy <System.String>

The Backup storage redundancy used to store backups for the SQL Database. Options are: Local, Zone, Geo and GeoZone.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ComputeGeneration <System.String>

The compute generation to assign to the restored database

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>

The credentials, account, tenant, and subscription used for communication with azure

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-DeletionDate <System.DateTime>

Specifies the deletion date as a DateTime object. To get a DateTime object, use the Get-Date cmdlet.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Edition <System.String>

Specifies the edition of the SQL database. The acceptable values for this parameter are: - None

- Basic

- Standard

- Premium

- DataWarehouse

- Free

- Stretch

- GeneralPurpose

- BusinessCritical

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ElasticPoolName <System.String>

Specifies the name of the elastic pool in which to put the SQL database.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-EncryptionProtector <System.String>

The encryption protector key for SQL Database.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-EncryptionProtectorAutoRotation <System.Management.Automation.SwitchParameter>

The AKV Key Auto Rotation status

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-FederatedClientId <System.Nullable`1[System.Guid]>

The federated client id for the SQL Database. It is used for cross tenant CMK scenario.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-FromDeletedDatabaseBackup <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet restores a database from a backup of a deleted SQL database. You can use the Get-AzSqlDeletedDatabaseBackup cmdlet to get the backup of

a deleted SQL database.

Required? true

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-FromGeoBackup <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet restores a SQL database from a geo-redundant backup. You can use the Get-AzSqlDatabaseGeoBackup cmdlet to get a geo-redundant backup.

Required? true

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-FromLongTermRetentionBackup <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet restores a SQL database from a long term retention backup.

Required? true

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-FromPointInTimeBackup <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet restores a SQL database from a point-in-time backup.

Required? true

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-HAReplicaCount <System.Int32>

The HA Replica Count used to store backups for the SQL Database.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-KeyList <System.String[]>

The list of AKV keys for the SQL Database.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-LicenseType <System.String>

The license type for the Azure Sql database.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-PointInTime <System.DateTime>

Specifies the point in time, as a DateTime object, that you want to restore your SQL database to. To get a DateTime object, use Get-Date cmdlet. Use this

parameter together with the FromPointInTimeBackup parameter.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ResourceGroupName <System.String>

Specifies the name of the resource group to which this cmdlet assigns the SQL database.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ResourceId <System.String>

Specifies the ID of the resource to restore.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ServerName <System.String>

Specifies the name of the SQL database server.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ServiceObjectiveName <System.String>

Specifies the name of the service objective.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Tag <System.Collections.Hashtable>

The tags to associate with the Azure Sql Database

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-TargetDatabaseName <System.String>

Specifies the name of the database to restore to.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-UserAssignedIdentityId <System.String[]>

The list of user assigned identity for the SQL Database.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-VCore <System.Int32>

The Vcore numbers of the restored Azure Sql Database.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ZoneRedundant <System.Management.Automation.SwitchParameter>

The zone redundancy to associate with the Azure Sql Database. This property is only settable for Hyperscale edition databases.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Confirm <System.Management.Automation.SwitchParameter>

Prompts you for confirmation before running the cmdlet.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-WhatIf <System.Management.Automation.SwitchParameter>

Shows what would happen if the cmdlet runs. The cmdlet is not run.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug,

ErrorAction, ErrorVariable, WarningAction, WarningVariable,

OutBuffer, PipelineVariable, and OutVariable. For more information, see

about_CommonParameters (https:/go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

System.DateTime

System.String

OUTPUTS

Microsoft.Azure.Commands.Sql.Database.Model.AzureSqlDatabaseModel

NOTES

------ Example 1: Restore a database from a point in time ------

$Database = Get-AzSqlDatabase -ResourceGroupName "ResourceGroup01" -ServerName "Server01" -DatabaseName "Database01"

Restore-AzSqlDatabase -FromPointInTimeBackup -PointInTime UTCDateTime -ResourceGroupName $Database.ResourceGroupName -ServerName $Database.ServerName

-TargetDatabaseName "RestoredDatabase" -ResourceId $Database.ResourceID -Edition "Standard" -ServiceObjectiveName "S2"

The first command gets the SQL database named Database01, and then stores it in the $Database variable. The second command restores the database in $Database from the

specified point-in-time backup to the database named RestoredDatabase.

Example 2: Restore a database from a point in time to an elastic pool

$Database = Get-AzSqlDatabase -ResourceGroupName "ResourceGroup01" -ServerName "Server01" -DatabaseName "Database01"

Restore-AzSqlDatabase -FromPointInTimeBackup -PointInTime UTCDateTime -ResourceGroupName $Database.ResourceGroupName -ServerName $Database.ServerName

-TargetDatabaseName "RestoredDatabase" -ResourceId $Database.ResourceID -ElasticPoolName "ElasticPool01"

The first command gets the SQL database named Database01, and then stores it in the $Database variable. The second command restores the database in $Database from the

specified point-in-time backup to the SQL database named RestoredDatabase in the elastic pool named elasticpool01.

---------- Example 3: Restore a deleted database ----------

$DeletedDatabase = Get-AzSqlDeletedDatabaseBackup -ResourceGroupName "ResourceGroup01" -ServerName "Server01" -DatabaseName "Database01"

Restore-AzSqlDatabase -FromDeletedDatabaseBackup -DeletionDate $DeletedDatabase.DeletionDate -ResourceGroupName $DeletedDatabase.ResourceGroupName -ServerName

$DeletedDatabase.ServerName -TargetDatabaseName "RestoredDatabase" -ResourceId $DeletedDatabase.ResourceID -Edition "Standard" -ServiceObjectiveName "S2" -PointInTime

UTCDateTime

The first command gets the deleted database backup that you want to restore by using Get-AzSqlDeletedDatabaseBackup (./Get-AzSqlDeletedDatabaseBackup.md). The second

command starts the restore from the deleted database backup by using the Restore-AzSqlDatabase (./Restore-AzSqlDatabase.md)cmdlet. If the -PointInTime parameter is

not specified, the database will be restored to the deletion time.

-- Example 4: Restore a deleted database into an elastic pool --

$DeletedDatabase = Get-AzSqlDeletedDatabaseBackup -ResourceGroupName $resourceGroupName -ServerName $sqlServerName -DatabaseName 'DatabaseToRestore'

Restore-AzSqlDatabase -FromDeletedDatabaseBackup -DeletionDate $DeletedDatabase.DeletionDate -ResourceGroupName $DeletedDatabase.ResourceGroupName -ServerName

$DeletedDatabase.ServerName -TargetDatabaseName "RestoredDatabase" -ResourceId $DeletedDatabase.ResourceID -ElasticPoolName "elasticpool01" -PointInTime UTCDateTime

The first command gets the deleted database backup that you want to restore by using Get-AzSqlDeletedDatabaseBackup (./Get-AzSqlDeletedDatabaseBackup.md). The second

command starts the restore from the deleted database backup by using Restore-AzSqlDatabase (./Restore-AzSqlDatabase.md). If the -PointInTime parameter is not

specified, the database will be restored to the deletion time.

---------- Example 5: Geo-Restore a database ----------

$GeoBackup = Get-AzSqlDatabaseGeoBackup -ResourceGroupName "ResourceGroup01" -ServerName "Server01" -DatabaseName "Database01"

Restore-AzSqlDatabase -FromGeoBackup -ResourceGroupName "TargetResourceGroup" -ServerName "TargetServer" -TargetDatabaseName "RestoredDatabase" -ResourceId

$GeoBackup.ResourceID -Edition "Standard" -ServiceObjectiveName "S2"

The first command gets the geo-redundant backup for the database named Database01, and then stores it in the $GeoBackup variable. The second command restores the

backup in $GeoBackup to the SQL database named RestoredDatabase.

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/az.sql/restore-azsqldatabase

Recover an Azure SQL Database from an outage http://go.microsoft.com/fwlink/?LinkId=746882

Recover an Azure SQL Database from a user error http://go.microsoft.com/fwlink/?LinkId=746944

Get-AzSqlDatabase

Get-AzSqlDatabaseGeoBackup

Get-AzSqlDeletedDatabaseBackup

SQL Database Documentation https://learn.microsoft.com/azure/sql-database/