



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

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

NAME

Restore-AzSqlInstanceDatabase

SYNOPSIS

Restores an Azure SQL Managed Instance database.

SYNTAX

```
Restore-AzSqlInstanceDatabase [-ResourceGroupName] <System.String> [-InstanceName] <System.String> [-Name]
<System.String> [-DeletionDate] <System.DateTime> [-AsJob]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
-FromPointInTimeBackup -PointInTime <System.DateTime>
[-SubscriptionId <System.String>] -TargetInstanceDatabaseName <System.String> [-Confirm] [-WhatIf]
[<CommonParameters>]
```

```
Restore-AzSqlInstanceDatabase [-ResourceGroupName] <System.String> [-InstanceName] <System.String> [-Name]
<System.String> [-DeletionDate] <System.DateTime> [-AsJob]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
-FromPointInTimeBackup -PointInTime <System.DateTime>
[-SubscriptionId <System.String>] -TargetInstanceDatabaseName <System.String> -TargetInstanceName <System.String>
```

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

Restore-AzSqlInstanceDatabase [-ResourceGroupName] <System.String> [-InstanceName] <System.String> [-Name]
<System.String> [-DeletionDate] <System.DateTime> [-AsJob]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
-FromPointInTimeBackup -PointInTime <System.DateTime>
-SubscriptionId <System.String> -TargetInstanceDatabaseName <System.String> -TargetInstanceName
<System.String> -TargetResourceGroupName <System.String>
-TargetSubscriptionId <System.String> [-Confirm] [-WhatIf] [<CommonParameters>]

Restore-AzSqlInstanceDatabase [-GeoBackupObject]
<Microsoft.Azure.Commands.Sql.ManagedDatabase.Model.AzureSqlRecoverableManagedDatabaseModel> [-AsJob]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
-FromGeoBackup -TargetInstanceDatabaseName <System.String>
-TargetInstanceName <System.String> -TargetResourceGroupName <System.String> [-Confirm] [-WhatIf]
[<CommonParameters>]

Restore-AzSqlInstanceDatabase [-ResourceId] <System.String> [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -FromGeoBackup
-TargetInstanceDatabaseName <System.String>
-TargetInstanceName <System.String> -TargetResourceGroupName <System.String> [-Confirm] [-WhatIf]
[<CommonParameters>]

Restore-AzSqlInstanceDatabase [-ResourceGroupName] <System.String> [-InstanceName] <System.String> [-Name]
<System.String> [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -FromGeoBackup
-TargetInstanceDatabaseName <System.String>
-TargetInstanceName <System.String> -TargetResourceGroupName <System.String> [-Confirm] [-WhatIf]
[<CommonParameters>]

Restore-AzSqlInstanceDatabase [-ResourceId] <System.String> [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]

-FromLongTermRetentionBackup [-SubscriptionId <System.String>
-TargetInstanceDatabaseName <System.String> -TargetInstanceName <System.String> -TargetResourceGroupName
<System.String> [-Confirm] [-WhatIf] [<CommonParameters>]

Restore-AzSqlInstanceDatabase [-ResourceGroupName] <System.String> [-InstanceName] <System.String> [-Name]
<System.String> [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]

-FromPointInTimeBackup -PointInTime <System.DateTime> [-SubscriptionId
<System.String>] -TargetInstanceDatabaseName <System.String> [-Confirm] [-WhatIf] [<CommonParameters>]

Restore-AzSqlInstanceDatabase [-InputObject]
<Microsoft.Azure.Commands.Sql.ManagedDatabase.Model.AzureSqlManagedDatabaseBaseModel> [-AsJob]
[-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]

-FromPointInTimeBackup -PointInTime <System.DateTime>
-TargetInstanceDatabaseName <System.String> [-Confirm] [-WhatIf] [<CommonParameters>]

Restore-AzSqlInstanceDatabase [-ResourceId] <System.String> [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
-FromPointInTimeBackup -PointInTime <System.DateTime>
-TargetInstanceDatabaseName <System.String> [-Confirm] [-WhatIf] [<CommonParameters>]

Restore-AzSqlInstanceDatabase [-ResourceGroupName] <System.String> [-InstanceName] <System.String> [-Name]
<System.String> [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]

-FromPointInTimeBackup -PointInTime <System.DateTime> [-SubscriptionId
<System.String>] -TargetInstanceDatabaseName <System.String> -TargetInstanceName <System.String>
-TargetResourceGroupName <System.String> [-Confirm] [-WhatIf]
[<CommonParameters>]

Restore-AzSqlInstanceDatabase [-InputObject]
<Microsoft.Azure.Commands.Sql.ManagedDatabase.Model.AzureSqlManagedDatabaseBaseModel> [-AsJob]
[-DefaultProfile

```

        <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
-FromPointInTimeBackup -PointInTime <System.DateTime>
    -TargetInstanceDatabaseName <System.String> -TargetInstanceName <System.String> -TargetResourceGroupName
<System.String> [-Confirm] [-WhatIf] [<CommonParameters>]

Restore-AzSqlInstanceDatabase [-ResourceId] <System.String> [-AsJob] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
-FromPointInTimeBackup -PointInTime <System.DateTime>
    -TargetInstanceDatabaseName <System.String> -TargetInstanceName <System.String> -TargetResourceGroupName
<System.String> [-Confirm] [-WhatIf] [<CommonParameters>]

Restore-AzSqlInstanceDatabase [-ResourceGroupName] <System.String> [-InstanceName] <System.String> [-Name]
<System.String> [-AsJob] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
-FromPointInTimeBackup -PointInTime <System.DateTime> -SubscriptionId
    <System.String> -TargetInstanceDatabaseName <System.String> -TargetInstanceName <System.String>
-TargetResourceGroupName <System.String> -TargetSubscriptionId
    <System.String> [-Confirm] [-WhatIf] [<CommonParameters>]

Restore-AzSqlInstanceDatabase [-InputObject]
<Microsoft.Azure.Commands.Sql.ManagedDatabase.Model.AzureSqlManagedDatabaseBaseModel> [-AsJob]
[-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
-FromPointInTimeBackup -PointInTime <System.DateTime>
    -TargetInstanceDatabaseName <System.String> -TargetInstanceName <System.String> -TargetResourceGroupName
<System.String> -TargetSubscriptionId <System.String>
    [-Confirm] [-WhatIf] [<CommonParameters>]

Restore-AzSqlInstanceDatabase [-ResourceId] <System.String> [-AsJob] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
-FromPointInTimeBackup -PointInTime <System.DateTime>
    -TargetInstanceDatabaseName <System.String> -TargetInstanceName <System.String> -TargetResourceGroupName
<System.String> -TargetSubscriptionId <System.String>
    [-Confirm] [-WhatIf] [<CommonParameters>]

```

[-Confirm] [-WhatIf] [<CommonParameters>]

DESCRIPTION

The Restore-AzSqlInstanceDatabase cmdlet restores an instance database from a geo-redundant backup, a point in time in a live database, or a long term retention backup. The restored database is created as a new instance 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

-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>

The deletion date of deleted database.

Required? true

Position? 3

Default value None
Accept pipeline input? False
Accept wildcard characters? false

-FromGeoBackup <System.Management.Automation.SwitchParameter>

Restore from a geo backup.

Required? true
Position? named
Default value False
Accept pipeline input? False
Accept wildcard characters? false

-FromLongTermRetentionBackup <System.Management.Automation.SwitchParameter>

Restore 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>

Restore from a point-in-time backup.

Required? true
Position? named
Default value False
Accept pipeline input? False
Accept wildcard characters? false

-GeoBackupObject

The recoverable instance database object to restore

Required?	true
Position?	0
Default value	None
Accept pipeline input?	True (ByValue)
Accept wildcard characters?	false

-InputObject <Microsoft.Azure.Commands.Sql.ManagedDatabase.Model.AzureSqlManagedDatabaseBaseModel>

The Instance Database object to restore

Required?	true
Position?	0
Default value	None
Accept pipeline input?	True (ByValue)
Accept wildcard characters?	false

-InstanceName <System.String>

The instance name.

Required?	true
Position?	1
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

-Name <System.String>

The instance database name to restore.

Required?	true
Position?	2
Default value	None
Accept pipeline input?	False

Accept wildcard characters? false

-PointInTime <System.DateTime>

The point in time to restore the database to.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ResourceGroupName <System.String>

The name of the resource group.

Required? true

Position? 0

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ResourceId <System.String>

The resource id of Instance Database object to restore

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-SubscriptionId <System.String>

Source subscription id.

Required? false

Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-TargetInstanceDatabaseName <System.String>

The name of the target instance database to restore to.

Required? true
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-TargetInstanceName <System.String>

The name of the target instance to restore to. If not specified, the target instance is the same as the source instance.

Required? true
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-TargetResourceGroupName <System.String>

The name of the target resource group to restore to. If not specified, the target resource group is the same as the source resource group.

Required? true
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-TargetSubscriptionId <System.String>

The name of the target subscription id to restore to.

Required? true

Position? named

Default value None

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

Microsoft.Azure.Commands.Sql.ManagedDatabase.Model.AzureSqlManagedDatabaseBaseModel

Microsoft.Azure.Commands.Sql.ManagedDatabase.Model.AzureSqlRecoverableManagedDatabaseModel

System.String

OUTPUTS

Microsoft.Azure.Commands.Sql.ManagedDatabase.Model.AzureSqlManagedDatabaseModel

NOTES

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

```
Restore-AzSqlInstanceDatabase -Name "Database01" -InstanceName "managedInstance1" -ResourceGroupName  
"ResourceGroup01" -PointInTime UTCDateTime  
-TargetInstanceDatabaseName "Database01_restored"
```

The command restores the instance database Database01 from the specified point-in-time backup to the instance database named Database01_restored.

Example 2: Restore an instance database from a point in time to another instance on different resource group

```
Restore-AzSqlInstanceDatabase -Name "Database01" -InstanceName "managedInstance1" -ResourceGroupName
"ResourceGroup01" -PointInTime UTCDateTime
    -TargetInstanceDatabaseName "Database01_restored" -TargetInstanceName "managedInstance1"
-TargetResourceGroupName "ResourceGroup02"
```

The command restores the instance database Database01 on instance managedInstance1 on resource group ResourceGroup01 from the specified point-in-time backup to the instance database named Database01_restored on instance managedInstance2 on resource group ResourceGroup02.

----- Example 3: Geo-Restore an instance database -----

```
$GeoBackup = Get-AzSqlInstanceDatabaseGeoBackup -ResourceGroupName "ResourceGroup01" -InstanceName
"managedInstance1" -Name "Database01"
    $GeoBackup | Restore-AzSqlInstanceDatabase -FromGeoBackup -TargetInstanceDatabaseName
"Database01_restored" -TargetInstanceName "managedInstance2"
-TargetResourceGroupName "ResourceGroup02"
```

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 instance database named Database01_restored.

Example 4: Restore a deleted instance database from a point in time

```
$deletedDatabase = Get-AzSqlDeletedInstanceDatabaseBackup -ResourceGroupName "ResourceGroup01"
-InstanceName "managedInstance1" -DatabaseName "DB1"
    Restore-AzSqlInstanceDatabase -FromPointInTimeBackup -Name $deletedDatabase.Name -InstanceName
$deletedDatabase.ManagedInstanceName -ResourceGroupName
    $deletedDatabase.ResourceGroupName -DeletionDate $deletedDatabase.DeletionDate -PointInTime UTCDateTime
-TargetInstanceDatabaseName "Database01_restored"
```

The first command gets the deleted instance databases named 'DB1' on Instance 'managedInstance1'. The second

command restores the fetched database, from the specified
point-in-time backup to the instance database named Database01_restored.

Example 5: Restore a deleted instance database from a point in time

```
$deletedDatabase = Get-AzSqlDeletedInstanceDatabaseBackup -ResourceGroupName "ResourceGroup01"
-InstanceName "managedInstance1" -DatabaseName "DB1"

Restore-AzSqlInstanceDatabase -FromPointInTimeBackup -InputObject $deletedDatabase[0] -PointInTime
UTCDateTime -TargetInstanceDatabaseName "Database01_restored"
```

The first command gets the deleted instance databases named 'DB1' on Instance 'managedInstance1'. The second
command restores the fetched database, from the specified
point-in-time backup to the instance database named Database01_restored using input object.

----- Example 6: Restore a database from LTR backup. -----

```
Restore-AzSqlInstanceDatabase -FromLongTermRetentionBackup -ResourceId
"/subscriptions/f46521f3-5bb0-4eea-a3c2-c2d5987df96b/resourceGroups/testResourceGroup/providers/
Microsoft.Sql/locations/southeastasia/longTermRetentionManagedInstances/testInstance/longTermRetentionDatabases/test
/longTermRetentionManagedInstanceBackups/15be823c-7
e2c-49d8-819f-a3fdcad92215;132268250550000000" -TargetInstanceDatabaseName "restoreTarget"
-TargetInstanceName "testInstance" -TargetResourceGroupName
"testResourceGroup"
```

```
Location          : southeastasia
Tags              :
Collation         : SQL_Latin1_General_CP1_CI_AS
Status            : Online
RestorePointInTime :
DefaultSecondaryLocation : northeurope
```

CatalogCollation :
 CreateMode :
 StorageContainerUri :
 StorageContainerSasToken :
 SourceDatabaseId :
 FailoverGroupId :
 RecoverableDatabaseId :
 RestorableDroppedDatabaseId :
 LongTermRetentionBackupResourceId :
 ResourceGroupName : testResourceGroup
 ManagedInstanceName : testInstance
 Name : restoreTarget
 CreationDate : 3/4/2020 8:12:56 AM
 EarliestRestorePoint : 3/4/2020 8:14:29 AM
 Id :

/subscriptions/f46521f3-5bb0-4eea-a3c2-c2d5987df96b/resourceGroups/testResourceGroup/providers/Microsoft.Sql/managedInstances/testInstance/databases/restoreTarget

Restores LTR backup with the given resource ID (which can be found by running Get-AzSqlInstanceDatabaseLongTermRetentionBackup).

--- Example 7. Restore database from different subscription ---

```

Restore-AzSqlInstanceDatabase -FromPointInTimeBackup `
  -SubscriptionId "sourceSubscriptionID" `
  -ResourceGroupName "sourceRGName" `
  -InstanceName "sourceManagedInstanceName" `
  -Name "sourceDatabaseName" `
  -PointInTime $pointInTime `
  -TargetInstanceDatabaseName "targetDatabaseName" `
  -TargetInstanceName "targetManagedInstnaceName" `
  
```

```
-TargetResourceGroupName "targetResourceGroupName" `
-TargetSubscriptionId "targetSubscriptionId"
```

The command restores database backup from instance in one subscription to database `targetDatabaseName` on instance `targetManagedInstanceName` to different subscription `targetSubscriptionId`.

Example 8. Restore database from different subscription using source object and piping

```
Set-AzContext -SubscriptionId "sourceSubscriptionId"

$sourceDatabase = Get-AzSqlInstanceDatabase -Name "sourceDatabaseName" -InstanceName
"sourceManagedInstanceName" -ResourceGroupName "sourceRGName"
```

```
Set-AzContext -SubscriptionId "targetSubscriptionId"

$sourceDatabase | Restore-AzSqlInstanceDatabase -FromPointInTimeBackup `
-PointInTime $pointInTime `
-TargetInstanceDatabaseName "targetDatabaseName" `
-TargetInstanceName "targetManagedInstnaceName" `
-TargetResourceGroupName "targetResourceGroupName" `
-TargetSubscriptionId "targetSubscriptionId"
```

First command gets source managed database object and stores in variable sourceDatabase. Second command executes restore from source to the given target database using point in time restore.

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/az.sql/restore-azsqlinstancedatabase>