



Windows PowerShell Get-Help on Cmdlet 'New-AzSqlServer'

PS:\>Get-HELP New-AzSqlServer -Full

NAME

New-AzSqlServer

SYNOPSIS

Creates a SQL Database server.

SYNTAX

```
New-AzSqlServer [-ResourceGroupName] <System.String> [-AsJob] [-AssignIdentity] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-EnableActiveDirectoryOnlyAuthentication] [-ExternalAdminName
    <System.String>] [-ExternalAdminSID <System.Nullable`1[System.Guid]>] [-FederatedClientId
    <System.Nullable`1[System.Guid]>] [-IdentityType <System.String>] [-KeyId
    <System.String>] -Location <System.String> [-MinimalTlsVersion {None | 1.0 | 1.1 | 1.2}] [-PrimaryUserAssignedIdentityId
    <System.String>] [-PublicNetworkAccess
    <System.String>] [-RestrictOutboundNetworkAccess <System.String>] -ServerName <System.String> [-ServerVersion
    <System.String>] [-SqlAdministratorCredentials
    <System.Management.Automation.PSCredential>] [-Tags <System.Collections.Hashtable>] [-UserAssignedIdentityId
    <System.Collections.Generic.List`1[System.String]>]
[-Confirm] [-WhatIf] [<CommonParameters>]
```

DESCRIPTION

The New-AzSqlServer cmdlet creates an Azure SQL Database server.

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 server for use with key management services like Azure KeyVault.

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

-EnableActiveDirectoryOnlyAuthentication <System.Management.Automation.SwitchParameter>

Enable Active Directory Only Authentication on the server.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-ExternalAdminName <System.String>

Specifies the display name of the user, group or application which is the Microsoft Entra administrator for the server.

This display name must exist in the active

directory associated with the current subscription.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

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

Specifies the object ID of the user, group or application which is the Microsoft Entra administrator.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

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

Specifies the Federated client ID of the server when using Cross-Tenant CMK, Do not set this value if you do not intend

to use Cross-Tenant CMK

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

-IdentityType <System.String>

Type of identity to be assigned to the server. Possible values are SystemAssigned, UserAssigned, 'SystemAssigned,UserAssigned' and None.

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

-KeyId <System.String>

The Azure Key Vault URI that is used for encryption.

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

-Location <System.String>

Specifies the location of the data center where this cmdlet creates the server.

Required?	true
Position?	named
Default value	None

Accept pipeline input? False

Accept wildcard characters? false

-MinimalTlsVersion <System.String>

The minimal TLS version to enforce for Sql Server

Required? false

Position? named

Default value 1.2

Accept pipeline input? False

Accept wildcard characters? false

-PrimaryUserAssignedIdentityId <System.String>

The primary User Managed Identity(UMI) id.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-PublicNetworkAccess <System.String>

Takes a flag, enabled/disabled, to specify whether public network access to server is allowed or not. When disabled, only connections made through Private Links can reach this server.

Required? false

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 server.

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

-RestrictOutboundNetworkAccess <System.String>

When enabled, only outbound connections allowed by the outbound firewall rules will succeed.

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

-ServerName <System.String>

Specifies the name of the new server.

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

-ServerVersion <System.String>

Specifies the version of the new server. The acceptable values for this parameter are: 2.0 and 12.0. Specify 2.0 to create a version 11 server, or 12.0 to create a version 12 server.

Required?	false
Position?	named

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

-SqlAdministratorCredentials <System.Management.Automation.PSCredential>

Specifies the SQL Database server administrator credentials for the new server. To obtain a PSCredential object, use the Get-Credential cmdlet. For more information, type ``Get-Help Get-Credential``.

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

-Tags <System.Collections.Hashtable>

Key-value pairs in the form of a hash table. For example: `@{key0="value0";key1=$null;key2="value2"}`

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

-UserAssignedIdentityId <System.Collections.Generic.List`1[System.String]>

The list of user assigned identities.

Required? false
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

System.String

OUTPUTS

Microsoft.Azure.Commands.Sql.Server.Model.AzureSqlServerModel

NOTES

----- Example 1: Create a new Azure SQL Database server -----

```
New-AzSqlServer -ResourceGroupName "ResourceGroup01" -Location "Central US" -ServerName "server01"
-ServerVersion "12.0" -SqlAdministratorCredentials (Get-Credential)
```

ResourceGroupName : resourcegroup01

ServerName : server01

Location : Central US

SqlAdministratorLogin : adminLogin

SqlAdministratorPassword :

ServerVersion : 12.0

Tags :

This command creates a version 12 Azure SQL Database server.

Example 2: Create a new Azure SQL Database server with External (Microsoft Entra ID) Administrator, Microsoft Entra-only Authentication and no

SqlAdministratorCredentials

```
New-AzSqlServer -ResourceGroupName "ResourceGroup01" -Location "Central US" -ServerName "server01"
-ServerVersion "12.0" -ExternalAdminName DummyLogin
-EnableActiveDirectoryOnlyAuthentication
```

ResourceGroupName : resourcegroup01

ServerName : server01

Location : Central US

SqlAdministratorLogin : adminLogin

SqlAdministratorPassword :

ServerVersion : 12.0

Tags :

Administrators :

```
$val = Get-AzSqlServer -ResourceGroupName "ResourceGroup01" -ServerName "server01"
```

-ExpandActiveDirectoryAdministrator

ResourceGroupName : resourcegroup01

ServerName : server01

Location : Central US

SqlAdministratorLogin : randomLogin

SqlAdministratorPassword :

ServerVersion : 12.0

Tags :

Administrators : Microsoft.Azure.Management.Sql.Models.ServerExternalAdministrator

\$val.Administrators

AdministratorType : ActiveDirectory

PrincipalType : Group

Login : DummyLogin

Sid : df7667b8-f9fd-4029-a0e3-b43c75ce9538

TenantId : f553829b-6d84-481b-86a9-42db57c1dc73

AzureADOnlyAuthentication : True

This command creates a version 12 Azure SQL Database server with external administrator properties and Microsoft Entra-only authentication enabled.

Example 3: Create a new Azure SQL Database server with TDE CMK

```
New-AzSqlServer -ResourceGroupName "ResourceGroup01" -Location "East US" -ServerName "server01"
```

-ServerVersion "12.0" -SqlAdministratorCredentials (Get-Credential)

```
-AssignIdentity -IdentityType "UserAssigned" -PrimaryUserAssignedIdentityId
```

```
"/subscriptions/xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx/resourceGroups/resourcegroup01/providers/Microsoft.ManagedIdentity/userAssignedIdentities/identity01"
```

```
-UserAssignedIdentityId
```

```
"/subscriptions/xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx/resourceGroups/resourcegroup01/providers/Microsoft.ManagedIdentity/userAssignedIdentities/identity01" -KeyId
```

```
"https://contoso.vault.azure.net/keys/contosokey/01234567890123456789012345678901"
```

```
ResourceGroupName      : resourcegroup01
```

```
ServerName             : server01
```

```
Location               : East US
```

```
SqlAdministratorLogin  : adminLogin
```

```
SqlAdministratorPassword :
```

```
ServerVersion          : 12.0
```

```
Tags                   :
```

```
Identity               : Microsoft.Azure.Management.Sql.Models.ResourceIdentity
```

```
KeyId                  : https://contoso.vault.azure.net/keys/contosokey/01234567890123456789012345678901
```

```
PrimaryUserAssignedIdentityId :
```

```
/subscriptions/xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx/resourceGroups/resourcegroup01/providers/Microsoft.ManagedIdentity/userAssignedIdentities/identity01
```

This command creates a version 12 Azure SQL Database server with TDE CMK enabled.

RELATED LINKS

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

Get-AzSqlServer

Remove-AzSqlServer

Set-AzSqlServer

New-AzSqlServerFirewallRule

