



Windows PowerShell Get-Help on Cmdlet 'Get-AzKeyVaultKey'

PS:\>Get-HELP Get-AzKeyVaultKey -Full

NAME

Get-AzKeyVaultKey

SYNOPSIS

Gets Key Vault keys. Please notes that detailed information about a key, like key type or key size, only available when querying a specific key version.

SYNTAX

```
Get-AzKeyVaultKey [-Name] <System.String> [-Version] <System.String> [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -HsmName
    <System.String> [-OutFile <System.String>] [<CommonParameters>]
```

```
Get-AzKeyVaultKey [[-Name] <System.String>] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -HsmName
    <System.String> [-InRemovedState] [-OutFile <System.String>] [<CommonParameters>]
```

```
Get-AzKeyVaultKey [-Name] <System.String> [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -HsmName
    <System.String> -IncludeVersions [-OutFile <System.String>] [<CommonParameters>]
```

```
Get-AzKeyVaultKey [-HsmObject] <Microsoft.Azure.Commands.KeyVault.Models.PSManagedHsm> [[-Name]
<System.String>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-InRemovedState]
[-OutFile <System.String>] [<CommonParameters>]
```

```
Get-AzKeyVaultKey [-HsmObject] <Microsoft.Azure.Commands.KeyVault.Models.PSManagedHsm> [-Name]
<System.String> [-Version] <System.String> [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-OutFile
<System.String>] [<CommonParameters>]
```

```
Get-AzKeyVaultKey [-HsmObject] <Microsoft.Azure.Commands.KeyVault.Models.PSManagedHsm> [-Name]
<System.String> [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -IncludeVersions
[-OutFile <System.String>] [<CommonParameters>]
```

```
Get-AzKeyVaultKey [[-Name] <System.String>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -HsmResourceId
<System.String> [-InRemovedState] [-OutFile <System.String>] [<CommonParameters>]
```

```
Get-AzKeyVaultKey [-Name] <System.String> [-Version] <System.String> [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -HsmResourceId
<System.String> [-OutFile <System.String>]
[<CommonParameters>]
```

```
Get-AzKeyVaultKey [-Name] <System.String> [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -HsmResourceId
<System.String> -IncludeVersions [-OutFile <System.String>] [<CommonParameters>]
```

```
Get-AzKeyVaultKey [-VaultName] <System.String> [-Name] <System.String> [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -IncludeVersions
[-OutFile <System.String>] [<CommonParameters>]
```

Get-AzKeyVaultKey [-InputObject] <Microsoft.Azure.Commands.KeyVault.Models.PSKeyVault> [-Name] <System.String>
[-DefaultProfile

<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -IncludeVersions
[-OutFile <System.String>] [<CommonParameters>]

Get-AzKeyVaultKey [-Name] <System.String> [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -IncludeVersions
[-OutFile <System.String>] -ResourceId <System.String> [<CommonParameters>]

Get-AzKeyVaultKey [-InputObject] <Microsoft.Azure.Commands.KeyVault.Models.PSKeyVault> [[-Name]
<System.String>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-InRemovedState]
[-OutFile <System.String>] [<CommonParameters>]

Get-AzKeyVaultKey [-InputObject] <Microsoft.Azure.Commands.KeyVault.Models.PSKeyVault> [-Name] <System.String>
[-Version] <System.String> [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-OutFile
<System.String>] [<CommonParameters>]

Get-AzKeyVaultKey [-VaultName] <System.String> [[-Name] <System.String>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-InRemovedState]
[-OutFile <System.String>] [<CommonParameters>]

Get-AzKeyVaultKey [[-Name] <System.String>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>
[-InRemovedState] [-OutFile <System.String>] -ResourceId <System.String> [<CommonParameters>]

Get-AzKeyVaultKey [-VaultName] <System.String> [-Name] <System.String> [-Version] <System.String> [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-OutFile
<System.String>] [<CommonParameters>]

Get-AzKeyVaultKey [-Name] <System.String> [-Version] <System.String> [-DefaultProfile

<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-OutFile

<System.String> -ResourceId <System.String> [<CommonParameters>]

DESCRIPTION

The Get-AzKeyVaultKey cmdlet gets Azure Key Vault keys. This cmdlet gets a specific Microsoft.Azure.Commands.KeyVault.Models.KeyBundle or a list of all KeyBundle objects in a key vault or by version.

PARAMETERS

-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

-HsmName <System.String>

HSM name. Cmdlet constructs the FQDN of a managed HSM based on the name and currently selected environment.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-HsmObject <Microsoft.Azure.Commands.KeyVault.Models.PSManagedHsm>

HSM object.

Required? true

Position? 0

Default value None
Accept pipeline input? True (ByValue)
Accept wildcard characters? false

-HsmResourceId <System.String>

HSM Resource Id.

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

-IncludeVersions <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet gets all versions of a key. The current version of a key is the first one on the list. If you specify this parameter you must also

specify the Name and VaultName parameters. If you do not specify the IncludeVersions parameter, this cmdlet gets the current version of the key with the specified

Name .

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

-InputObject <Microsoft.Azure.Commands.KeyVault.Models.PSKeyVault>

KeyVault object.

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

Accept wildcard characters? false

-InRemovedState <System.Management.Automation.SwitchParameter>

Specifies whether to show the previously deleted keys in the output

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Name <System.String>

Specifies the name of the key bundle to get.

Required? false

Position? 1

Default value None

Accept pipeline input? False

Accept wildcard characters? true

-OutFile <System.String>

Specifies the output file for which this cmdlet saves the key. The public key is saved in PEM format by default.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ResourceId <System.String>

KeyVault Resource Id.

Required? true

Position? named
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-VaultName <System.String>

Specifies the name of the key vault from which this cmdlet gets keys. This cmdlet constructs the fully qualified domain name (FQDN) of a key vault based on the name that this parameter specifies and your selected environment.

Required? true
Position? 0
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-Version <System.String>

Specifies the key version. This cmdlet constructs the FQDN of a key based on the key vault name, your currently selected environment, the key name, and the key version.

Required? true
Position? 2
Default value None
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 \(https://go.microsoft.com/fwlink/?LinkID=113216\)](https://go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

Microsoft.Azure.Commands.KeyVault.Models.PSKeyVault

System.String

OUTPUTS

Microsoft.Azure.Commands.KeyVault.Models.PSKeyVaultKeyIdentityItem

Microsoft.Azure.Commands.KeyVault.Models.PSKeyVaultKey

Microsoft.Azure.Commands.KeyVault.Models.PSDeletedKeyVaultKeyIdentityItem

Microsoft.Azure.Commands.KeyVault.Models.PSDeletedKeyVaultKey

NOTES

----- Example 1: Get all the keys in a key vault -----

Get-AzKeyVaultKey -VaultName 'contoso'

Vault/HSM Name : contoso

Name : test1

Version :
Id : https://contoso.vault.azure.net:443/keys/test1
Enabled : True
Expires : 11/24/2018 6:08:13 PM
Not Before : 5/24/2018 5:58:13 PM
Created : 5/24/2018 6:08:13 PM
Updated : 5/24/2018 6:08:13 PM
Purge Disabled : False
Tags :

Vault Name : contoso
Name : test2
Version :
Id : https://contoso.vault.azure.net:443/keys/test2
Enabled : True
Expires : 11/24/2018 6:09:44 PM
Not Before : 5/24/2018 5:59:44 PM
Created : 5/24/2018 6:09:44 PM
Updated : 5/24/2018 6:09:44 PM
Purge Disabled : False
Tags :

This command gets all the keys in the key vault named Contoso.

----- Example 2: Get the current version of a key -----

Get-AzKeyVaultKey -VaultName 'contoso' -KeyName 'test1'

Vault/HSM Name : contoso
Name : test1
Key Type : RSA
Key Size : 2048

Version : 7fe415d5518240c1a6fce89986b8d334
Id : https://contoso.vault.azure.net:443/keys/test1/7fe415d5518240c1a6fce89986b8d334
Enabled : True
Expires : 11/24/2018 6:08:13 PM
Not Before : 5/24/2018 5:58:13 PM
Created : 5/24/2018 6:08:13 PM
Updated : 5/24/2018 6:08:13 PM
Purge Disabled : False
Tags :

This command gets the current version of the key named test1 in the key vault named Contoso.

----- Example 3: Get all versions of a key -----

Get-AzKeyVaultKey -VaultName 'contoso' -KeyName 'test1' -IncludeVersions

Vault/HSM Name : contoso
Name : test1
Version : 7fe415d5518240c1a6fce89986b8d334
Id : https://contoso.vault.azure.net:443/keys/test1/7fe415d5518240c1a6fce89986b8d334
Enabled : True
Expires : 11/24/2018 6:08:13 PM
Not Before : 5/24/2018 5:58:13 PM
Created : 5/24/2018 6:08:13 PM
Updated : 5/24/2018 6:08:13 PM
Purge Disabled : False
Tags :

Vault/HSM Name : contoso
Name : test1
Version : e4e95940e669407fbdb4298bc21a3e1d
Id : https://contoso.vault.azure.net:443/keys/test1/e4e95940e669407fbdb4298bc21a3e1d

Enabled : False
Expires : 11/24/2018 6:08:08 PM
Not Before : 5/24/2018 5:58:08 PM
Created : 5/24/2018 6:08:08 PM
Updated : 5/24/2018 6:08:08 PM
Purge Disabled : False
Tags :

This command gets all versions the key named ITPfx in the key vault named Contoso.

----- Example 4: Get a specific version of a key -----

```
Get-AzKeyVaultKey -VaultName 'contoso' -KeyName 'test1' -Version 'e4e95940e669407fbdb4298bc21a3e1d'
```

Vault/HSM Name : contoso
Name : test1
Key Type : RSA
Key Size : 2048
Version : e4e95940e669407fbdb4298bc21a3e1d
Id : https://contoso.vault.azure.net:443/keys/test1/e4e95940e669407fbdb4298bc21a3e1d
Enabled : False
Expires : 11/24/2018 6:08:08 PM
Not Before : 5/24/2018 5:58:08 PM
Created : 5/24/2018 6:08:08 PM
Updated : 5/24/2018 6:08:08 PM
Purge Disabled : False
Tags :

This command gets a specific version of the key named test1 in the key vault named Contoso. After running this command, you can inspect various properties of the key by navigating the \$Key object.

Example 5: Get all the keys that have been deleted but not purged for this key vault

```
Get-AzKeyVaultKey -VaultName 'contoso' -InRemovedState
```

Vault/HSM Name : contoso
Name : test3
Id : https://contoso.vault.azure.net:443/keys/test3
Deleted Date : 5/24/2018 8:32:42 PM
Scheduled Purge Date : 8/22/2018 8:32:42 PM
Enabled : True
Expires :
Not Before :
Created : 5/24/2018 8:32:27 PM
Updated : 5/24/2018 8:32:27 PM
Purge Disabled : False
Tags :

This command gets all the keys that have been previously deleted, but not purged, in the key vault named Contoso.

Example 6: Gets the key ITPfx that has been deleted but not purged for this key vault.

```
Get-AzKeyVaultKey -VaultName 'contoso' -KeyName 'test3' -InRemovedState
```

Vault/HSM Name : contoso
Name : test3
Id : https://contoso.vault.azure.net:443/keys/test3/1af807cc331a49d0b52b7c75e1b2366e
Deleted Date : 5/24/2018 8:32:42 PM
Scheduled Purge Date : 8/22/2018 8:32:42 PM
Enabled : True
Expires :
Not Before :

Created : 5/24/2018 8:32:27 PM
Updated : 5/24/2018 8:32:27 PM
Purge Disabled : False
Tags :

This command gets the key test3 that has been previously deleted, but not purged, in the key vault named Contoso. This command will return metadata such as the deletion date, and the scheduled purging date of this deleted key.

-- Example 7: Get all the keys in a key vault using filtering --

```
Get-AzKeyVaultKey -VaultName 'contoso' -KeyName "test*"
```

Vault/HSM Name : contoso
Name : test1
Version :
Id : https://contoso.vault.azure.net:443/keys/test1
Enabled : True
Expires : 11/24/2018 6:08:13 PM
Not Before : 5/24/2018 5:58:13 PM
Created : 5/24/2018 6:08:13 PM
Updated : 5/24/2018 6:08:13 PM
Purge Disabled : False
Tags :

Vault/HSM Name : contoso
Name : test2
Version :
Id : https://contoso.vault.azure.net:443/keys/test2
Enabled : True
Expires : 11/24/2018 6:09:44 PM
Not Before : 5/24/2018 5:59:44 PM

Created : 5/24/2018 6:09:44 PM

Updated : 5/24/2018 6:09:44 PM

Purge Disabled : False

Tags :

This command gets all the keys in the key vault named Contoso that start with "test".

----- Example 8: Download a public key as a .pem file -----

```
$path = "D:\public.pem"
```

```
Get-AzKeyVaultKey -VaultName $vaultName -KeyName $keyName -OutFile $path
```

You can download the public key of a RSA key by specifying the `-OutFile`` parameter. This is one step of importing HSM-protected keys to Azure Key Vault. See

<https://learn.microsoft.com/azure/key-vault/keys/hsm-protected-keys>

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/az.keyvault/get-azkeyvaultkey>

[Add-AzKeyVaultKey](#)

[Remove-AzKeyVaultKey](#)

[Undo-AzKeyVaultKeyRemoval](#)