



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

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

NAME

New-AzHDInsightClusterConfig

SYNOPSIS

Creates a non-persisted cluster configuration object that describes an Azure HDInsight cluster configuration.

SYNTAX

```
New-AzHDInsightClusterConfig [-AadTenantId <System.Guid>] [-ApplicationId <System.Guid>] [-AssignedIdentity
<System.String>] [-CertificateFileContents
<System.Byte[]>] [-CertificateFilePath <System.String>] [-CertificatePassword <System.String>] [-ClusterTier {Standard |
Premium}] [-ClusterType <System.String>]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-EdgeNodeSize <System.String>] [-EncryptionAlgorithm
{RSA-OAEP | RSA-OAEP-256 | RSA1_5}] [-EncryptionAtHost <System.Nullable`1[System.Boolean]>]
[-EncryptionInTransit <System.Nullable`1[System.Boolean]>]
[-EncryptionKeyName <System.String>] [-EncryptionKeyVersion <System.String>] [-EncryptionVaultUri <System.String>]
[-HeadNodeSize <System.String>] [-HiveMetastore
<Microsoft.Azure.Commands.HDInsight.Models.AzureHDInsightMetastore>] [-MinSupportedTlsVersion <System.String>]
[-ObjectId <System.Guid>] [-OozieMetastore
```

```

    <Microsoft.Azure.Commands.HDInsight.Models.AzureHDInsightMetastore>] [-StorageAccountKey <System.String>]
[-StorageAccountResourceId <System.String>]
    [-StorageAccountType {AzureStorage | AzureDataLakeStore | AzureDataLakeStorageGen2}] [-WorkerNodeSize
<System.String>] [-ZookeeperNodeSize <System.String>]
    [<CommonParameters>]

```

DESCRIPTION

The New-AzHDInsightClusterConfig cmdlet creates a non-persisted object that describes an Azure HDInsight cluster configuration.

PARAMETERS

-AadTenantId <System.Guid>

Specifies the Microsoft Entra tenant ID that will be used when accessing Azure Data Lake Store.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ApplicationId <System.Guid>

Gets or sets the Service Principal Application Id for accessing Azure Data Lake.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-AssignedIdentity <System.String>

Gets or sets the assigned identity.

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

-CertificateFileContents <System.Byte[]>

Specifies file contents of the certificate that will be used when accessing Azure Data Lake Store.

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

-CertificateFilePath <System.String>

Specifies the file path to the certificate that will be used to authenticate as the Service Principal. The cluster will use this when accessing Azure Data Lake Store.

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

-CertificatePassword <System.String>

Specifies the password for the certificate that will be used to authenticate as the Service Principal. The cluster will use this when accessing Azure Data Lake Store.

Required? false

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

-ClusterTier <System.String>

Specifies the HDInsight cluster tier. The acceptable values for this parameter are: - Standard

- Premium

The default value is Standard. The Premium tier can only be used with Linux clusters, and it enables the use of some new features.

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

-ClusterType <System.String>

Specifies the type of cluster to create. The acceptable values for this parameter are: - Hadoop

- HBase

- Storm

- Spark

- INTERACTIVEHIVE

- Kafka

- RServer

Required? false
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

-EdgeNodeSize <System.String>

Specifies the size of the virtual machine for the edge node. Use Get-AzVMSize for acceptable VM sizes, and see HDInsight's pricing page. This parameter is valid only for RServer clusters.

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

-EncryptionAlgorithm <System.String>

Gets or sets the encryption algorithm.

Required? false
Position? named
Default value None

Accept pipeline input? False

Accept wildcard characters? false

-EncryptionAtHost <System.Nullable`1[System.Boolean]>

Gets or sets the flag which indicates whether enable encryption at host or not.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-EncryptionInTransit <System.Nullable`1[System.Boolean]>

Gets or sets the flag which indicates whether enable encryption in transit or not.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-EncryptionKeyName <System.String>

Gets or sets the encryption key name.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-EncryptionKeyVersion <System.String>

Gets or sets the encryption key version.

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

-EncryptionVaultUri <System.String>

Gets or sets the encryption vault uri.

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

-HeadNodeSize <System.String>

Specifies the size of the virtual machine for the Head node. Use Get-AzVMSize for acceptable VM sizes, and see HDInsight's pricing page.

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

-HiveMetastore <Microsoft.Azure.Commands.HDInsight.Models.AzureHDInsightMetastore>

Specifies the metastore to store Hive metadata. You can alternatively use the Add-AzHDInsightMetastore cmdlet.

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

-MinSupportedTlsVersion <System.String>

Gets or sets the minimal supported TLS version.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ObjectId <System.Guid>

Specifies the Microsoft Entra object ID (a GUID) of the Microsoft Entra service principal that represents the cluster. The cluster will use this when accessing Azure Data Lake Store.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-OozieMetastore <Microsoft.Azure.Commands.HDInsight.Models.AzureHDInsightMetastore>

Specifies the metastore to store Oozie metadata. You can alternatively use the Add-AzHDInsightMetastore cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-StorageAccountKey <System.String>

Gets or sets the storage account access key.

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

-StorageAccountResourceId <System.String>

Gets or sets the storage account resource id.

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

-StorageAccountType <Microsoft.Azure.Commands.HDInsight.Models.Management.StorageType>

Gets or sets the type of the default storage account.

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

-WorkerNodeSize <System.String>

Specifies the size of the virtual machine for the Worker node. Use Get-AzVMSize for acceptable VM sizes, and see HDInsight's pricing page.

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

-ZookeeperNodeSize <System.String>

Specifies the size of the virtual machine for the Zookeeper node. Use Get-AzVMSize for acceptable VM sizes, and see HDInsight's pricing page. This parameter is valid only for HBase or Storm clusters.

Required? false

Position? named

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>).

INPUTS

None

OUTPUTS

Microsoft.Azure.Commands.HDInsight.Models.AzureHDInsightConfig

NOTES

----- Example 1: Create a cluster configuration object -----

Primary storage account info

\$storageAccountResourceGroupName = "Group"

\$storageAccountResourceId = "yourstorageaccountresourceid"

\$storageAccountName = "yourstorageaccountname"

\$storageAccountKey = (Get-AzStorageAccountKey -ResourceGroupName \$storageAccountResourceGroupName -Name
\$storageAccountName)[0].value

\$storageContainer = "container002"

Cluster configuration info

\$location = "East US 2"

\$clusterResourceGroupName = "Group"

\$clusterName = "your-hadoop-002"

\$clusterCreds = Get-Credential

If the cluster's resource group doesn't exist yet, run:

New-AzResourceGroup -Name \$clusterResourceGroupName -Location \$location

Create the cluster

New-AzHDInsightClusterConfig `

| Add-AzHDInsightStorage `

-StorageAccountName "\$secondStorageAccountName.blob.core.contoso.net" `

-StorageAccountKey \$key2 `

| New-AzHDInsightCluster `

-ClusterType Hadoop `

-OSType Windows `

-ClusterSizeInNodes 4 `

-ResourceGroupName \$clusterResourceGroupName `

-ClusterName \$clusterName `

-HttpCredential \$clusterCreds `

- Location \$location `
- StorageAccountResourceId \$storageAccountResourceId `
- StorageAccountKey \$storageAccountKey `
- StorageContainer \$storageContainer

This command creates a cluster configuration object.

RELATED LINKS

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

Add-AzHDInsightStorage