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

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

WARNING: The names of some imported commands from the module 'Az.NetworkCloud.private' include unapproved verbs that might make them less discoverable. To find the

commands with unapproved verbs, run the Import-Module command again with the Verbose parameter. For a list of approved verbs, type Get-Verb.

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NAME

   New-AzNetworkCloudCluster

SYNOPSIS

   Create a new cluster or update the properties of the cluster if it exists.

SYNTAX

```
        New-AzNetworkCloudCluster  -Name  <String>  -ResourceGroupName  <String>  [-SubscriptionId  <String>]
-AggregatorOrSingleRackDefinitionNetworkRackId <String>

    -AggregatorOrSingleRackDefinitionRackSerialNumber <String> -AggregatorOrSingleRackDefinitionRackSkuId <String>
-ClusterType <ClusterType> -ClusterVersion <String>

      -ExtendedLocationName  <String>  -ExtendedLocationType  <String>  -Location  <String>  -NetworkFabricId  <String>
[-AggregatorOrSingleRackDefinitionAvailabilityZone

    <String>] [-AggregatorOrSingleRackDefinitionBareMetalMachineConfiguration <IBareMetalMachineConfigurationData[]>]
[-AggregatorOrSingleRackDefinitionRackLocation

      <String>]  [-AggregatorOrSingleRackDefinitionStorageApplianceConfiguration <IStorageApplianceConfigurationData[]>]
[-AnalyticsWorkspaceId <String>] [-ClusterLocation

                <String>]      [-ClusterServicePrincipalApplicationId      <String>]      [-ClusterServicePrincipalId      <String>]
[-ClusterServicePrincipalPassword <SecureString>]

    [-ClusterServicePrincipalTenantId <String>] [-ComputeDeploymentThresholdGrouping <ValidationThresholdGrouping>]
[-ComputeDeploymentThresholdType

              <ValidationThresholdType>]      [-ComputeDeploymentThresholdValue      <Int64>]      [-ComputeRackDefinition
<IRackDefinition[]>] [-ManagedResourceGroupConfigurationLocation

      <String>] [-ManagedResourceGroupConfigurationName <String>] [-Tag <Hashtable>] [-DefaultProfile <PSObject>]
[-AsJob] [-Break] [-HttpPipelineAppend <SendAsyncStep[]>]

        [-HttpPipelinePrepend  <SendAsyncStep[]>]  [-NoWait]  [-Proxy  <Uri>]  [-ProxyCredential  <PSCredential>]
[-ProxyUseDefaultCredentials] [-WhatIf] [-Confirm]

  [<CommonParameters>]
```

DESCRIPTION

  Create a new cluster or update the properties of the cluster if it exists.

PARAMETERS

  -Name <String>

    The name of the cluster.

    Required?   true

    Position?   named
```

Default value

Accept pipeline input?     false

Accept wildcard characters?  false


-ResourceGroupName <String>

The name of the resource group.

The name is case insensitive.


Required?               true

Position?               named

Default value

Accept pipeline input?     false

Accept wildcard characters?  false


-SubscriptionId <String>

The ID of the target subscription.

The value must be an UUID.


Required?               false

Position?               named

Default value

Accept pipeline input?     false

Accept wildcard characters?  false


-AggregatorOrSingleRackDefinitionNetworkRackId <String>

The resource ID of the network rack that matches this rack definition.


Required?               true

Position?               named

Default value

Accept pipeline input?     false

Accept wildcard characters?  false

-AggregatorOrSingleRackDefinitionRackSerialNumber <String>

The unique identifier for the rack within Network Cloud cluster.

An alternate unique alphanumeric value other than a serial number may be provided if desired.

Required?               true

Position?               named

Default value

Accept pipeline input?     false

Accept wildcard characters?  false

-AggregatorOrSingleRackDefinitionRackSkuId <String>

The resource ID of the sku for the rack being added.

Required?               true

Position?               named

Default value

Accept pipeline input?     false

Accept wildcard characters?  false

-ClusterType <ClusterType>

The type of rack configuration for the cluster.

Required?               true

Position?               named

Default value

Accept pipeline input?     false

Accept wildcard characters?  false

-ClusterVersion <String>

The current runtime version of the cluster.

Required?               true

Position?               named

Default value

Accept pipeline input?     false

Accept wildcard characters?  false


-ExtendedLocationName <String>

   The resource ID of the extended location on which the resource will be created.


   Required?              true

   Position?              named

   Default value

   Accept pipeline input?     false

   Accept wildcard characters?  false


-ExtendedLocationType <String>

   The extended location type, for example, CustomLocation.


   Required?              true

   Position?              named

   Default value

   Accept pipeline input?     false

   Accept wildcard characters?  false


-Location <String>

   The geo-location where the resource lives


   Required?              true

   Position?              named

   Default value

   Accept pipeline input?     false

   Accept wildcard characters?  false


-NetworkFabricId <String>

   The resource ID of the Network Fabric associated with the cluster.

Required?                    true

Position?                    named

Default value

Accept pipeline input?       false

Accept wildcard characters?  false


-AggregatorOrSingleRackDefinitionAvailabilityZone <String>

The zone name used for this rack when created.

Availability zones are used for workload placement.


Required?                    false

Position?                    named

Default value

Accept pipeline input?       false

Accept wildcard characters?  false


-AggregatorOrSingleRackDefinitionBareMetalMachineConfiguration <IBareMetalMachineConfigurationData[]>

The unordered list of bare metal machine configuration.

To construct, see NOTES section for AGGREGATORORSINGLERACKDEFINITIONBAREMETALMACHINECONFIGURATION properties and create a hash table.


Required?                    false

Position?                    named

Default value

Accept pipeline input?       false

Accept wildcard characters?  false


-AggregatorOrSingleRackDefinitionRackLocation <String>

The free-form description of the rack's location.


Required?                    false

Position?                named

Default value

Accept pipeline input?      false

Accept wildcard characters?  false


-AggregatorOrSingleRackDefinitionStorageApplianceConfiguration <IStorageApplianceConfigurationData[]>

The list of storage appliance configuration data for this rack.

To      construct,      see      NOTES      section      for AGGREGATORORSINGLERACKDEFINITIONSTORAGEAPPLIANCECONFIGURATION  properties  and  create  a  hash table.


Required?                false

Position?                named

Default value

Accept pipeline input?      false

Accept wildcard characters?  false


-AnalyticsWorkspaceId <String>

The resource ID of the Log Analytics Workspace that will be used for storing relevant logs.


Required?                false

Position?                named

Default value

Accept pipeline input?      false

Accept wildcard characters?  false


-ClusterLocation <String>

The customer-provided location information to identify where the cluster resides.


Required?                false

Position?                named

Default value

Accept pipeline input?      false

Accept wildcard characters?  false

-ClusterServicePrincipalApplicationId <String>

The application ID, also known as client ID, of the service principal.

Required?               false

Position?               named

Default value

Accept pipeline input?      false

Accept wildcard characters?  false

-ClusterServicePrincipalId <String>

The principal ID, also known as the object ID, of the service principal.

Required?               false

Position?               named

Default value

Accept pipeline input?      false

Accept wildcard characters?  false

-ClusterServicePrincipalPassword <SecureString>

The password of the service principal.

Required?               false

Position?               named

Default value

Accept pipeline input?      false

Accept wildcard characters?  false

-ClusterServicePrincipalTenantId <String>

The tenant ID, also known as the directory ID, of the tenant in which the service principal is created.

Required?               false

Position?              named

Default value

Accept pipeline input?      false

Accept wildcard characters?  false


-ComputeDeploymentThresholdGrouping <ValidationThresholdGrouping>

Selection of how the type evaluation is applied to the cluster calculation.


Required?              false

Position?              named

Default value

Accept pipeline input?      false

Accept wildcard characters?  false


-ComputeDeploymentThresholdType <ValidationThresholdType>

Selection of how the threshold should be evaluated.


Required?              false

Position?              named

Default value

Accept pipeline input?      false

Accept wildcard characters?  false


-ComputeDeploymentThresholdValue <Int64>

The numeric threshold value.


Required?              false

Position?              named

Default value          0

Accept pipeline input?      false

Accept wildcard characters?  false


-ComputeRackDefinition <IRackDefinition[]>

The list of rack definitions for the compute racks in a multi-rackcluster, or an empty list in a single-rack cluster.

To construct, see NOTES section for COMPUTERACKDEFINITION properties and create a hash table.

Required?                false

Position?                named

Default value

Accept pipeline input?      false

Accept wildcard characters?  false

-ManagedResourceGroupConfigurationLocation <String>

The location of the managed resource group.

If not specified, the location of the parent resource is chosen.

Required?                false

Position?                named

Default value

Accept pipeline input?      false

Accept wildcard characters?  false

-ManagedResourceGroupConfigurationName <String>

The name for the managed resource group.

If not specified, the unique name is automatically generated.

Required?                false

Position?                named

Default value

Accept pipeline input?      false

Accept wildcard characters?  false

-Tag <Hashtable>

Resource tags.

Required?                false

Position?                named

Default value

Accept pipeline input?       false

Accept wildcard characters?  false

-DefaultProfile <PSObject>

The DefaultProfile parameter is not functional.

Use the SubscriptionId parameter when available if executing the cmdlet against a different subscription.

Required?                false

Position?                named

Default value

Accept pipeline input?       false

Accept wildcard characters?  false

-AsJob [<SwitchParameter>]

Run the command as a job

Required?                false

Position?                named

Default value            False

Accept pipeline input?       false

Accept wildcard characters?  false

-Break [<SwitchParameter>]

Wait for .NET debugger to attach

Required?                false

Position?                named

Default value            False

Accept pipeline input?       false

Accept wildcard characters?  false

-HttpPipelineAppend <SendAsyncStep[]>

    SendAsync Pipeline Steps to be appended to the front of the pipeline


    Required?               false

    Position?             named

    Default value

    Accept pipeline input?     false

    Accept wildcard characters?  false


-HttpPipelinePrepend <SendAsyncStep[]>

    SendAsync Pipeline Steps to be prepended to the front of the pipeline


    Required?               false

    Position?             named

    Default value

    Accept pipeline input?     false

    Accept wildcard characters?  false


-NoWait [<SwitchParameter>]

    Run the command asynchronously


    Required?               false

    Position?             named

    Default value          False

    Accept pipeline input?     false

    Accept wildcard characters?  false


-Proxy <Uri>

    The URI for the proxy server to use


    Required?               false

    Position?             named

    Default value

Accept pipeline input?     false

Accept wildcard characters?  false


-ProxyCredential <PSCredential>

Credentials for a proxy server to use for the remote call


Required?              false

Position?              named

Default value

Accept pipeline input?     false

Accept wildcard characters?  false


-ProxyUseDefaultCredentials [<SwitchParameter>]

Use the default credentials for the proxy


Required?              false

Position?              named

Default value          False

Accept pipeline input?     false

Accept wildcard characters?  false


-WhatIf [<SwitchParameter>]


Required?              false

Position?              named

Default value

Accept pipeline input?     false

Accept wildcard characters?  false


-Confirm [<SwitchParameter>]


Required?              false

Position?              named

Default value

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


OUTPUTS

Microsoft.Azure.PowerShell.Cmdlets.NetworkCloud.Models.Api20230701.ICluster


NOTES


COMPLEX PARAMETER PROPERTIES


To create the parameters described below, construct a hash table containing the appropriate properties. For information on hash tables, run Get-Help

about_Hash_Tables.


AGGREGATORORSINGLERACKDEFINITIONBAREMETALMACHINECONFIGURATION

<IBareMetalMachineConfigurationData[]>: The unordered list of bare metal machine configuration.

BmcCredentialsPassword <SecureString>: The password of the administrator of the device used during initialization.

BmcCredentialsUsername <String>: The username of the administrator of the device used during initialization.

BmcMacAddress <String>: The MAC address of the BMC for this machine.

BootMacAddress <String>: The MAC address associated with the PXE NIC card.

RackSlot <Int64>: The slot the physical machine is in the rack based on the BOM configuration.

SerialNumber <String>: The serial number of the machine. Hardware suppliers may use an alternate value. For

example, service tag.

[MachineDetail <String>]: The free-form additional information about the machine, e.g. an asset tag.

[MachineName <String>]: The user-provided name for the bare metal machine created from this specification.        If not provided, the machine name will be

generated programmatically.

AGGREGATORORSINGLERACKDEFINITIONSTORAGEAPPLIANCECONFIGURATION <IStorageApplianceConfigurationData[]>: The list of storage appliance configuration data for this

rack.

AdminCredentialsPassword <SecureString>: The password of the administrator of the device used during initialization.

AdminCredentialsUsername <String>: The username of the administrator of the device used during initialization.

RackSlot <Int64>: The slot that storage appliance is in the rack based on the BOM configuration.

SerialNumber <String>: The serial number of the appliance.

[StorageApplianceName <String>]: The user-provided name for the storage appliance that will be created from this specification.

COMPUTERACKDEFINITION <IRackDefinition[]>: The list of rack definitions for the compute racks in a multi-rackcluster, or an empty list in a single-rack cluster.

NetworkRackId <String>: The resource ID of the network rack that matches this rack definition.

RackSerialNumber <String>: The unique identifier for the rack within Network Cloud cluster. An alternate unique alphanumeric value other than a serial number

may be provided if desired.

RackSkuId <String>: The resource ID of the sku for the rack being added.

[AvailabilityZone <String>]: The zone name used for this rack when created. Availability zones are used for workload placement.

[BareMetalMachineConfigurationData <IBareMetalMachineConfigurationData[]>]: The unordered list of bare metal machine configuration.

BmcCredentialsPassword <SecureString>: The password of the administrator of the device used during initialization.

BmcCredentialsUsername <String>: The username of the administrator of the device used during initialization.

BmcMacAddress <String>: The MAC address of the BMC for this machine.

BootMacAddress <String>: The MAC address associated with the PXE NIC card.

RackSlot <Int64>: The slot the physical machine is in the rack based on the BOM configuration.

SerialNumber <String>: The serial number of the machine. Hardware suppliers may use an alternate value. For example, service tag.

[MachineDetail <String>]: The free-form additional information about the machine, e.g. an asset tag.

[MachineName <String>]: The user-provided name for the bare metal machine created from this specification.        If not provided, the machine name will be

generated programmatically.

[RackLocation <String>]: The free-form description of the rack's location.

[StorageApplianceConfigurationData <IStorageApplianceConfigurationData[]>]: The list of storage appliance configuration data for this rack.

AdminCredentialsPassword <SecureString>: The password of the administrator of the device used during initialization.

AdminCredentialsUsername <String>: The username of the administrator of the device used during initialization.

RackSlot <Int64>: The slot that storage appliance is in the rack based on the BOM configuration.

SerialNumber <String>: The serial number of the appliance.

[StorageApplianceName <String>]: The user-provided name for the storage appliance that will be created from this specification.


-------------------------- EXAMPLE 1 --------------------------


```
PS C:\>$storageapplianceconfigurationdata = @()


$baremetalmachineconfigurationdata = @()
$computerackdefinition = @(@{IRackDefinition = "The list of rack definitions for the compute racks in a multi-rackcluster,
or an empty list in a single-rack
cluster."})
$tagHash = @{
   tag = "tag"
}
$securePassword = ConvertTo-SecureString "password" -asplaintext -force


New-AzNetworkCloudCluster    -ResourceGroupName    resourceGroup    -Name    clusterName
-AggregatorOrSingleRackDefinitionNetworkRackId rackId
-AggregatorOrSingleRackDefinitionRackSerialNumber sr1234 -AggregatorOrSingleRackDefinitionRackSku rackSku
```

-ClusterType clustertype -ClusterVersion clusterversion

-ExtendedLocationName CmExtendedLocation -ExtendedLocationType CustomLocation -Location location

-NetworkFabricId networkFabricId -SubscriptionId subscriptionId

-AggregatorOrSingleRackDefinitionAvailabilityZone avilabilityzone

-AggregatorOrSingleRackDefinitionBareMetalMachineConfiguration $baremetalmachineconfigurationdata

-AggregatorOrSingleRackDefinitionRackLocation rackLocation

-AggregatorOrSingleRackDefinitionStorageApplianceConfiguration $storageapplianceconfigurationdata

-AnalyticsWorkspaceId anlyticsWorkSpaceId -ClusterServicePrincipalApplicationId clusterServicePrincipalAppId

-ClusterServicePrincipalId ClusterServicePrincipalId

-ClusterServicePrincipalPassword $securePassword -ClusterServicePrincipalTenantId tenantId -ComputeRackDefinition $computerackdefinition -Tag $tagHash

RELATED LINKS

https://learn.microsoft.com/powershell/module/az.networkcloud/new-aznetworkcloudcluster