



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

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

NAME

Get-AzBatchComputeNode

SYNOPSIS

Gets Batch compute nodes from a pool.

SYNTAX

```
Get-AzBatchComputeNode [-PoolId] <System.String> -BatchContext
<Microsoft.Azure.Commands.Batch.BatchAccountContext> [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Filter
<System.String>] [-MaxCount <System.Int32>] [-Select
    <System.String>] [<CommonParameters>]
```

```
Get-AzBatchComputeNode [[-Pool] <Microsoft.Azure.Commands.Batch.Models.PSCloudPool>] -BatchContext
<Microsoft.Azure.Commands.Batch.BatchAccountContext>
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-Filter <System.String>] [-MaxCount <System.Int32>]
[-Select <System.String>] [<CommonParameters>]
```

```
Get-AzBatchComputeNode [-PoolId] <System.String> [[-Id] <System.String>] -BatchContext
<Microsoft.Azure.Commands.Batch.BatchAccountContext> [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Select
<System.String>] [<CommonParameters>]
```

DESCRIPTION

The Get-AzBatchComputeNode cmdlet gets Azure Batch compute nodes from a pool. Specify either the PoolId or Pool parameter. Specify the Id parameter to get a single compute node. Specify the Filter parameter to get the compute nodes that match an Open Data Protocol (OData) filter.

PARAMETERS

-BatchContext <Microsoft.Azure.Commands.Batch.BatchAccountContext>

Specifies the BatchAccountContext instance that this cmdlet uses to interact with the Batch service. If you use the Get-AzBatchAccount cmdlet to get your

BatchAccountContext, then Microsoft Entra authentication will be used when interacting with the Batch service. To use shared key authentication instead, use the

Get-AzBatchAccountKey cmdlet to get a BatchAccountContext object with its access keys populated. When using shared key authentication, the primary access key is used by default. To change the key to use, set the BatchAccountContext.KeyInUse property.

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

-Filter <System.String>

Specifies an OData filter clause. This cmdlet returns compute nodes that match the filter that this parameter specifies.

If you do not specify a filter, this

cmdlet returns all compute nodes for the pool.

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

-Id <System.String>

Specifies the ID of the compute node that this cmdlet gets from the pool. You cannot specify wildcard characters.

Required? false
Position? 1
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-MaxCount <System.Int32>

Specifies the maximum number of compute nodes to return. If you specify a value of zero (0) or less, the cmdlet does not use an upper limit. The default value is 1000.

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

Accept wildcard characters? false

-Pool <Microsoft.Azure.Commands.Batch.Models.PSCloudPool>

Specifies the pool, as a PSCloudPool object, that contains the compute nodes. To obtain a PSCloudPool object, use the Get-AzBatchPool cmdlet.

Required? false

Position? 0

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-PoolId <System.String>

Specifies the ID of the pool that contains the compute nodes.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Select <System.String>

Specifies an OData select clause. Specify a value for this parameter to get specific properties rather than all object properties.

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

System.String

Microsoft.Azure.Commands.Batch.Models.PSCloudPool

Microsoft.Azure.Commands.Batch.BatchAccountContext

OUTPUTS

Microsoft.Azure.Commands.Batch.Models.PSComputeNode

NOTES

----- Example 1: Get a compute node by ID -----

Get-AzBatchComputeNode -PoolId "Pool06" -Id "tvm-2316545714_1-20150725t213220z" -BatchContext \$Context

Id : tvm-2316545714_1-20150725t213220z

Url :

https://cmdletexample.westus.batch.azure.com/pools/MyPool/nodes/tvm-2316545714_1-20150725t213220z

State : Idle

```

StateTransitionTime : 7/25/2015 9:36:53 PM
LastBootTime       : 7/25/2015 9:36:53 PM
AllocationTime     : 7/25/2015 9:32:20 PM
IPAddress          : 10.14.121.1
AffinityId         : TVM:tvm-2316545714_1-20150725t213220z
VirtualMachineSize : standard_d1_v2
TotalTasksRun      : 1
StartTaskInformation :
RecentTasks        : {}
StartTask          :
CertificateReferences :
Errors             :

```

This command gets the compute node that has the ID tvn-2316545714_1-20150725t213220z from the pool that has the ID Pool06. Use the Get-AzBatchAccountKey cmdlet to assign a context to the \$Context variable.

----- Example 2: Get all idle compute nodes from a pool -----

```
Get-AzBatchComputeNode -PoolId "Pool06" -Filter "state eq 'idle'" -BatchContext $Context
```

```

Id           : tvn-2316545714_1-20150725t213220z
Url          :
https://cmdletexample.westus.batch.azure.com/pools/MyPool/nodes/tvn-2316545714_1-20150725t213220z
State        : Idle
StateTransitionTime : 7/25/2015 9:36:53 PM
LastBootTime : 7/25/2015 9:36:53 PM
AllocationTime : 7/25/2015 9:32:20 PM
IPAddress     : 10.14.121.1
AffinityId    : TVM:tvm-2316545714_1-20150725t213220z
VirtualMachineSize : standard_d1_v2
TotalTasksRun : 1

```

StartTaskInformation :

RecentTasks : {}

StartTask :

CertificateReferences :

Errors :

Id : tvn-2316545714_2-20150726t172920z

Url :

https://cmdletexample.westus.batch.azure.com/pools/MyPool/nodes/tvn-2316545714_2-20150726t172920z

State : Idle

StateTransitionTime : 7/26/2015 5:33:58 PM

LastBootTime : 7/26/2015 5:33:58 PM

AllocationTime : 7/26/2015 5:29:20 PM

IPAddress : 10.14.121.38

AffinityId : TVM:tvn-2316545714_2-20150726t172920z

VirtualMachineSize : standard_d1_v2

TotalTasksRun : 0

StartTaskInformation :

RecentTasks :

StartTask :

CertificateReferences :

Errors :

This command gets all idle compute nodes that are contained in the pool that has the ID Pool06. The command specifies the idle state by using the Filter parameter.

----- Example 3: Get all compute nodes in a specified pool -----

Get-AzBatchPool -Id "Pool07" -BatchContext \$Context | Get-AzBatchComputeNode -BatchContext \$Context

Id : tvn-2316545714_1-20150725t213220z

Url : Page 7/9 :

https://cmdletexample.westus.batch.azure.com/pools/MyPool/nodes/tvm-2316545714_1-20150725t213220z

State : Idle

StateTransitionTime : 7/25/2015 9:36:53 PM

LastBootTime : 7/25/2015 9:36:53 PM

AllocationTime : 7/25/2015 9:32:20 PM

IPAddress : 10.14.121.1

AffinityId : TVM:tvm-2316545714_1-20150725t213220z

VirtualMachineSize : standard_d1_v2

TotalTasksRun : 1

StartTaskInformation :

RecentTasks : {}

StartTask :

CertificateReferences :

Errors :

Id : tvn-2316545714_2-20150726t172920z

Url :

https://cmdletexample.westus.batch.azure.com/pools/MyPool/nodes/tvn-2316545714_2-20150726t172920z

State : Idle

StateTransitionTime : 7/26/2015 5:33:58 PM

LastBootTime : 7/26/2015 5:33:58 PM

AllocationTime : 7/26/2015 5:29:20 PM

IPAddress : 10.14.121.38

AffinityId : TVM:tvm-2316545714_2-20150726t172920z

VirtualMachineSize : standard_d1_v2

TotalTasksRun : 0

StartTaskInformation :

RecentTasks :

StartTask :

CertificateReferences :

Errors :

This command gets the pool that has the ID Pool07 by using the Get-AzBatchPool cmdlet. The command passes that pool to the current cmdlet by using the pipeline operator. That cmdlet gets all compute nodes from that pool.

RELATED LINKS

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

Get-AzBatchComputeNode

Get-AzBatchNodeFile

Get-AzBatchNodeFileContent

Get-AzBatchPool

Reset-AzBatchComputeNode

Restart-AzBatchComputeNode

Azure Batch Cmdlets