



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

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

NAME

New-AzContainerGroup

SYNOPSIS

Create or update container groups with specified configurations.

SYNTAX

```
New-AzContainerGroup -Name <String> -ResourceGroupName <String> [-SubscriptionId <String>] -Container
<IContainer[]> -Location <String> [-OSType
<OperatingSystemTypes>] [-DnsConfigNameServer <String[]>] [-DnsConfigOption <String>] [-DnsConfigSearchDomain
<String>] [-EncryptionPropertyKeyName <String>]
[-EncryptionPropertyKeyVersion <String>] [-EncryptionPropertyVaultBaseUrl <String>] [-IPAddressDnsNameLabel
<String>] [-IPAddressIP <String>] [-IPAddressPort
<IPort[]>] [-IPAddressType <ContainerGroupIPAddressType>] [-IdentityType <ResourceIdentityType>]
[-IdentityUserAssignedIdentity <Hashtable>] [-ImageRegistryCredential
<IImageRegistryCredential[]>] [-InitContainer <IInitContainerDefinition[]>] [-LogAnalyticLogType <LogAnalyticsLogType>]
[-LogAnalyticMetadata <Hashtable>]
[-LogAnalyticWorkspaceId <String>] [-LogAnalyticWorkspaceKey <String>] [-LogAnalyticWorkspaceResourceId <String>]
[-RestartPolicy <ContainerGroupRestartPolicy>] [-Sku
```

<ContainerGroupSku>] [-SubnetId <IContainerGroupSubnetId[]>] [-Tag <Hashtable>] [-Volume <IVolume[]>] [-Zone
 <String[]>] [-Priority <String>] [-DefaultProfile
 <PSObject>] [-AsJob] [-Break] [-HttpPipelineAppend <SendAsyncStep[]>] [-HttpPipelinePrepend <SendAsyncStep[]>]
 [-NoWait] [-Proxy <Uri>] [-ProxyCredential
 <PSCredential>] [-ProxyUseDefaultCredentials] [-WhatIf] [-Confirm] [<CommonParameters>]

DESCRIPTION

Create or update container groups with specified configurations.

PARAMETERS

-Name <String>

The name of the container group.

Required? true

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-ResourceGroupName <String>

The name of the resource group.

Required? true

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-SubscriptionId <String>

Subscription credentials which uniquely identify Microsoft Azure subscription.

The subscription ID forms part of the URI for every service call.

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

-Container <IContainer[]>

The containers within the container group.
To construct, see NOTES section for CONTAINER properties and create a hash table.

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

-Location <String>

The resource location.

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

-OSType <OperatingSystemTypes>

The operating system type required by the containers in the container group.

Required? false
Position? named
Default value
Accept pipeline input? false

Accept wildcard characters? false

-DnsConfigNameServer <String[]>

The DNS servers for the container group.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-DnsConfigOption <String>

The DNS options for the container group.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-DnsConfigSearchDomain <String>

The DNS search domains for hostname lookup in the container group.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-EncryptionPropertyKeyName <String>

The encryption key name.

Required? false

Position? named
Default value
Accept pipeline input? false
Accept wildcard characters? false

-EncryptionPropertyKeyVersion <String>

The encryption key version.

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

-EncryptionPropertyVaultBaseUrl <String>

The keyvault base url.

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

-IPAddressDnsNameLabel <String>

The Dns name label for the IP.

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

-IPAddressIP <String>

The IP exposed to the public internet.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-IPAddressPort <IPort[]>

The list of ports exposed on the container group.

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

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-IPAddressType <ContainerGroupIPAddressType>

Specifies if the IP is exposed to the public internet or private VNET.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-IdentityType <ResourceIdentityType>

The type of identity used for the container group.

The type 'SystemAssigned, UserAssigned' includes both an implicitly created identity and a set of user assigned identities.

The type 'None' will remove any identities from the container group.

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

-IdentityUserAssignedIdentity <Hashtable>

The list of user identities associated with the container group.

The user identity dictionary key references will be ARM resource ids in the form:

`'/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.ManagedIdentity/userAssignedIdentities/{identityName}'`.

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

-ImageRegistryCredential <ImageRegistryCredential[]>

The image registry credentials by which the container group is created from.

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

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

-InitContainer <InitContainerDefinition[]>

The init containers for a container group.

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

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

-LogAnalyticLogType <LogAnalyticsLogType>

The log type to be used.

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

-LogAnalyticMetadata <Hashtable>

Metadata for log analytics.

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

-LogAnalyticWorkspaceId <String>

The workspace id for log analytics

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

-LogAnalyticWorkspaceKey <String>

The workspace key for log analytics

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-LogAnalyticWorkspaceResourceId <String>

The workspace resource id for log analytics

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-RestartPolicy <ContainerGroupRestartPolicy>

Restart policy for all containers within the container group.

- `Always` Always restart- `OnFailure` Restart on failure- `Never` Never restart

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-Sku <ContainerGroupSku>

The SKU for a container group.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-SubnetId <IContainerGroupSubnetId[]>

The subnet resource IDs for a container group.

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

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-Tag <Hashtable>

The resource tags.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-Volume <IVolume[]>

The list of volumes that can be mounted by containers in this container group.

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

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-Zone <String[]>

The zones for the container group.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-Priority <String>

The priority of the Container Group.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-DefaultProfile <PSObject>

The credentials, account, tenant, and subscription used for communication with Azure.

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.ContainerInstance.Models.Api20221001Preview.IContainerGroup

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.

CONTAINER <IContainer[]>: The containers within the container group.

Image <String>: The name of the image used to create the container instance.

Name <String>: The user-provided name of the container instance.

RequestCpu <Double>: The CPU request of this container instance.

RequestMemoryInGb <Double>: The memory request in GB of this container instance.

[Command <String[]>]: The commands to execute within the container instance in exec form.

[EnvironmentVariable <IEnvironmentVariable[]>]: The environment variables to set in the container instance.

Name <String>: The name of the environment variable.

[SecureValue <String>]: The value of the secure environment variable.

[Value <String>]: The value of the environment variable.

[LimitCpu <Double?>]: The CPU limit of this container instance.

[LimitMemoryInGb <Double?>]: The memory limit in GB of this container instance.

[LimitsGpuCount <Int32?>]: The count of the GPU resource.

[LimitsGpuSku <GpuSku?>]: The SKU of the GPU resource.

[LivenessProbeExecCommand <String[]>]: The commands to execute within the container.

[LivenessProbeFailureThreshold <Int32?>]: The failure threshold.

[LivenessProbeHttpGetHttpHeader <IHttpHeader[]>]: The HTTP headers.

[Name <String>]: The header name.

[Value <String>]: The header value.

[LivenessProbeHttpGetPath <String>]: The path to probe.

[LivenessProbeHttpGetPort <Int32?>]: The port number to probe.

[LivenessProbeHttpGetScheme <Scheme?>]: The scheme.

[LivenessProbeInitialDelaySecond <Int32?>]: The initial delay seconds.

[LivenessProbePeriodSecond <Int32?>]: The period seconds.

[LivenessProbeSuccessThreshold <Int32?>]: The success threshold.

[LivenessProbeTimeoutSecond <Int32?>]: The timeout seconds.

[Port <IContainerPort[]>]: The exposed ports on the container instance.

Port <Int32>: The port number exposed within the container group.

[Protocol <ContainerNetworkProtocol?>]: The protocol associated with the port.

[ReadinessProbeExecCommand <String[]>]: The commands to execute within the container.

[ReadinessProbeFailureThreshold <Int32?>]: The failure threshold.

[ReadinessProbeHttpGetHttpHeader <IHttpHeader[]>]: The HTTP headers.

[ReadinessProbeHttpGetPath <String>]: The path to probe.

[ReadinessProbeHttpGetPort <Int32?>]: The port number to probe.

[ReadinessProbeHttpGetScheme <Scheme?>]: The scheme.

[ReadinessProbeInitialDelaySecond <Int32?>]: The initial delay seconds.

[ReadinessProbePeriodSecond <Int32?>]: The period seconds.

[ReadinessProbeSuccessThreshold <Int32?>]: The success threshold.

[ReadinessProbeTimeoutSecond <Int32?>]: The timeout seconds.

[RequestsGpuCount <Int32?>]: The count of the GPU resource.

[RequestsGpuSku <GpuSku?>]: The SKU of the GPU resource.

[VolumeMount <IVolumeMount[]>]: The volume mounts available to the container instance.

MountPath <String>: The path within the container where the volume should be mounted. Must not contain colon (:).

Name <String>: The name of the volume mount.

[ReadOnly <Boolean?>]: The flag indicating whether the volume mount is read-only.

IMAGEREGISTRYCREDENTIAL <IImageRegistryCredential[]>: The image registry credentials by which the container group is created from.

Server <String>: The Docker image registry server without a protocol such as "http" and "https".

[Identity <String>]: The identity for the private registry.

[IdentityUrl <String>]: The identity URL for the private registry.

[Password <String>]: The password for the private registry.

[Username <String>]: The username for the private registry.

INITCONTAINER <IInitContainerDefinition[]>: The init containers for a container group.

Name <String>: The name for the init container.

[Command <String[]>]: The command to execute within the init container in exec form.

[EnvironmentVariable <IEnvironmentVariable[]>]: The environment variables to set in the init container.

Name <String>: The name of the environment variable.

[SecureValue <String>]: The value of the secure environment variable.

[Value <String>]: The value of the environment variable.

[Image <String>]: The image of the init container.

[VolumeMount <IVolumeMount[]>]: The volume mounts available to the init container.

MountPath <String>: The path within the container where the volume should be mounted. Must not contain colon (:).

Name <String>: The name of the volume mount.

[ReadOnly <Boolean?>]: The flag indicating whether the volume mount is read-only.

IPADDRESSPORT <IPort[]>: The list of ports exposed on the container group.

Port1 <Int32>: The port number.

[Protocol <ContainerGroupNetworkProtocol?>]: The protocol associated with the port.

SUBNETID <IContainerGroupSubnetId[]>: The subnet resource IDs for a container group.

Id <String>: Resource ID of virtual network and subnet.

[Name <String>]: Friendly name for the subnet.

VOLUME <IVolume[]>: The list of volumes that can be mounted by containers in this container group.

Name <String>: The name of the volume.

[AzureFileReadOnly <Boolean?>]: The flag indicating whether the Azure File shared mounted as a volume is read-only.

[AzureFileShareName <String>]: The name of the Azure File share to be mounted as a volume.

[AzureFileStorageAccountKey <String>]: The storage account access key used to access the Azure File share.

[AzureFileStorageAccountName <String>]: The name of the storage account that contains the Azure File share.

[EmptyDir <IVolumeEmptyDir>]: The empty directory volume.

[(Any) <Object>]: This indicates any property can be added to this object.

[GitRepoDirectory <String>]: Target directory name. Must not contain or start with '..'. If '.' is supplied, the volume directory will be the git repository.

Otherwise, if specified, the volume will contain the git repository in the subdirectory with the given name.

[GitRepoRepository <String>]: Repository URL

[GitRepoRevision <String>]: Commit hash for the specified revision.

[Secret <ISecretVolume>]: The secret volume.

[(Any) <String>]: This indicates any property can be added to this object.

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

```
$port2 = New-AzContainerInstancePortObject -Port 8001 -Protocol TCP

$container = New-AzContainerInstanceObject -Name test-container -Image nginx -RequestCpu 1 -RequestMemoryInGb 1.5 -Port @($port1, $port2)

$containerGroup = New-AzContainerGroup -ResourceGroupName test-rg -Name test-cg -Location eastus -Container $container -OsType Linux -RestartPolicy "Never" -IpAddressType Public
```

----- EXAMPLE 2 -----

```
PS C:\>$env1 = New-AzContainerInstanceEnvironmentVariableObject -Name "env1" -Value "value1"

$env2 = New-AzContainerInstanceEnvironmentVariableObject -Name "env2" -SecureValue (ConvertTo-SecureString -String "value2" -AsPlainText -Force)

$container = New-AzContainerInstanceObject -Name test-container -Image alpine -Command "/bin/sh -c myscript.sh" -EnvironmentVariable @($env1, $env2)

$containerGroup = New-AzContainerGroup -ResourceGroupName test-rg -Name test-cg -Location eastus -Container $container -OsType Linux
```

----- EXAMPLE 3 -----

```
PS C:\>$container = New-AzContainerInstanceObject -Name test-container -Image alpine -Command "echo hello"

$containerGroup = New-AzContainerGroup -ResourceGroupName test-rg -Name test-cg -Location eastus -Container $container -OsType Linux
```

----- EXAMPLE 4 -----

```
PS C:\>$container = New-AzContainerInstanceObject -Name test-container -Image myacr.azurecr.io/nginx:latest

$imageRegistryCredential = New-AzContainerGroupImageRegistryCredentialObject -Server "myacr.azurecr.io"
-Username "username" -Password (ConvertTo-SecureString
"PlainTextPassword" -AsPlainText -Force)

$containerGroup = New-AzContainerGroup -ResourceGroupName test-rg -Name test-cg -Location eastus -Container
$container -ImageRegistryCredential
$imageRegistryCredential
```

----- EXAMPLE 5 -----

```
PS C:\>$container = New-AzContainerInstanceObject -Name test-container -Image myserver.com/nginx:latest

$imageRegistryCredential = New-AzContainerGroupImageRegistryCredentialObject -Server "myserver.com" -Username
"username" -Password (ConvertTo-SecureString
"PlainTextPassword" -AsPlainText -Force)

$containerGroup = New-AzContainerGroup -ResourceGroupName test-rg -Name test-cg -Location eastus -Container
$container -ImageRegistryCredential
$imageRegistryCredential
```

----- EXAMPLE 6 -----

```
PS C:\>$volume = New-AzContainerGroupVolumeObject -Name "myvolume" -AzureFileShareName "myshare"
```

```
-AzureFileStorageAccountName "username" -AzureFileStorageAccountKey  
(ConvertTo-SecureString "PlainTextPassword" -AsPlainText -Force)
```

```
$mount = New-AzContainerInstanceVolumeMountObject -MountPath "/aci/logs" -Name "myvolume"  
$container = New-AzContainerInstanceObject -Name test-container -Image alpine -VolumeMount $mount  
$containerGroup = New-AzContainerGroup -ResourceGroupName test-rg -Name test-cg -Location eastus -Container  
$container -Volume $volume
```

----- EXAMPLE 7 -----

```
PS C:\>$container = New-AzContainerInstanceObject -Name test-container -Image alpine  
  
$containerGroup = New-AzContainerGroup -ResourceGroupName test-rg -Name test-cg -Location eastus -Container  
$container -IdentityType "SystemAssigned, UserAssigned"  
-IdentityUserAssignedIdentity  
  
@"{/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.ManagedIdentity/userAssignedIdentities/{identityName}" = @{}
```

RELATED LINKS

<https://learn.microsoft.com/powershell/module/az.containerinstance/new-azcontainergroup>