



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

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

NAME

New-AzApiManagement

SYNOPSIS

Creates an API Management deployment.

SYNTAX

```

New-AzApiManagement [-AdditionalRegions
<Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementRegion[]>] -AdminEmail <System.String>
[-Capacity
<System.Nullable`1[System.Int32]>] [-CustomHostnameConfiguration
<Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementCustomHostNameConfiguration[]>]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-DisableGateway <System.Nullable`1[System.Boolean]>]
[-EnableClientCertificate] -Location <System.String> [-MinimalControlPlaneApiVersion <System.String>] -Name
<System.String> -Organization <System.String>
[-PublicIpAddressId <System.String>] [-PublicNetworkAccess <System.String>] -ResourceGroupName <System.String>
[-Sku {Developer | Basic | Standard | Premium |
Consumption}] [-SslSetting <Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementSslSetting>]

```

```
[-SystemAssignedIdentity] [-SystemCertificateConfiguration
    <Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementSystemCertificate[]>] [-Tag
<System.Collections.Generic.Dictionary`2[System.String,System.String]>]
    [-UserAssignedIdentity <System.String[]>] [-VirtualNetwork
<Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementVirtualNetwork>] [-VpnType {None | External |
    Internal}] [-Zone <System.String[]>] [<CommonParameters>]
```

DESCRIPTION

The New-AzApiManagement cmdlet creates an API Management deployment in Azure API Management.

PARAMETERS

-AdditionalRegions <Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementRegion[]>

Additional deployment regions of Azure API Management.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-AdminEmail <System.String>

Specifies the originating email address for all notifications that the API Management system sends.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Capacity <System.Nullable`1[System.Int32]>

Specifies the SKU capacity of the Azure API Management service. The default is one (1).

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

-CustomHostnameConfiguration

<Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementCustomHostNameConfiguration[]>

Custom hostname configurations. Default value is \$null. Passing \$null will set the default hostname.

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

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

Flag only meant to be used for Premium SKU ApiManagement Service and Non Internal VNET deployments. This is useful in case we want to take a gateway region out of

rotation. This can also be used to standup a new region in Passive mode, test it and then make it Live later.

Required? false
Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-EnableClientCertificate <System.Management.Automation.SwitchParameter>

Flag only meant to be used for Consumption SKU ApiManagement Service. This enforces a client certificate to be presented on each request to the gateway. This also enables the ability to authenticate the certificate in the policy on the gateway.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Location <System.String>

Specifies the location to create the Api Management service. To obtain valid locations, use the cmdlet `Get-AzResourceProvider -ProviderNamespace`

`"Microsoft.ApiManagement" | where {$_.ResourceTypes[0].ResourceTypeName -eq "service"} | Select-Object Locations`

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-MinimalControlPlaneApiVersion <System.String>

Minimal Control Plane Apis version to allow for managing the API Management service.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Name <System.String>

Specifies a name for the API Management deployment.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Organization <System.String>

Specifies the name of an organization. API Management uses this address in the developer portal in email notifications.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PublicIpAddressId <System.String>

Standard SKU PublicIpAddress ResourceId for integration into stv2 Virtual Network Deployments

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-PublicNetworkAccess <System.String>

Whether or not public endpoint access is allowed for this service. Possible values include: 'Enabled', 'Disabled'

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

-ResourceGroupName <System.String>

Specifies the name of the resource group under which this cmdlet creates an API Management deployment.

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

-Sku <System.Nullable`1[Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementSku]>

The tier of the Azure API Management service. Valid values are Developer, Basic, Standard, Premium and Consumption. The default value is Developer.

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

-SslSetting <Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementSslSetting>

The Ssl Setting of the ApiManagement Service. Default value is \$null

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

Accept wildcard characters? false

-SystemAssignedIdentity <System.Management.Automation.SwitchParameter>

Generate and assign an Azure Active Directory Identity for this server for use with key management services like Azure KeyVault.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-SystemCertificateConfiguration

<Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementSystemCertificate[]>

Certificates issued by Internal CA to be installed on the service. Default value is \$null.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Tag <System.Collections.Generic.Dictionary`2[System.String,System.String]>

Tags dictionary.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-UserAssignedIdentity <System.String[]>

Assign User Identities to this server for use with key management services like Azure KeyVault.

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

-VirtualNetwork <Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementVirtualNetwork>

Virtual Network Configuration of master Azure API Management deployment region.

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

-VpnType <Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementVpnType>

Virtual Network Type of the ApiManagement Deployment. Valid Values are

- "None" (Default Value. ApiManagement is not part of any Virtual Network")
- "External" (ApiManagement Deployment is setup inside a Virtual Network having an Internet Facing Endpoint)
- "Internal" (ApiManagement Deployment is setup inside a Virtual Network having an Intranet Facing Endpoint)

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

-Zone <System.String[]>

A list of availability zones denoting where the api management service is deployed into.

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

System.Nullable`1[[Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementSku, Microsoft.Azure.PowerShell.Cmdlets.ApiManagement, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null]]

System.Nullable`1[[System.Int32, System.Private.CoreLib, Version=4.0.0.0, Culture=neutral, PublicKeyToken=7cec85d7bea7798e]]

Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementVirtualNetwork

System.Collections.Generic.Dictionary`2[[System.String, System.Private.CoreLib, Version=4.0.0.0, Culture=neutral, PublicKeyToken=7cec85d7bea7798e],[System.String, System.Private.CoreLib, Version=4.0.0.0, Culture=neutral, PublicKeyToken=7cec85d7bea7798e]]

Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementRegion[]

Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementCustomHostNameConfiguration[]

Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementSystemCertificate[]

OUTPUTS

Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagement

NOTES

-- Example 1: Create a Developer tier API Management service --

```
New-AzApiManagement -ResourceGroupName "ContosoGroup02" -Name "ContosoApi2" -Location "Central US"
-Organization "Contoso" -AdminEmail "admin@contoso.com"
```

PublicIPAddresses : {104.43.240.65}

PrivateIPAddresses :

Id :

/subscriptions/a200340d-6b82-494d-9dbf-687ba6e33f9e/resourceGroups/ContosoGroup02/providers/Microsoft.ApiManagement/service/ContosoApi2

Name : ContosoApi2

Location : Central US

Skus : Developer

Capacity : 1

CreatedTimeUtc : 2/24/2020 10:34:12 PM

ProvisioningState : Succeeded

RuntimeUrl : https://contosoapi2.azure-api.net

RuntimeRegionalUrl : https://contosoapi2-centralus-01.regional.azure-api.net

PortalUrl : https://contosoapi2.portal.azure-api.net

DeveloperPortalUrl : https://contosoapi2.developer.azure-api.net

ManagementApiUrl : https://contosoapi2.management.azure-api.net

ScmUrl : https://contosoapi2.scm.azure-api.net

PublisherEmail : admin@contoso.com

OrganizationName : Contoso

NotificationSenderEmail : apimgmt-noreply@mail.windowsazure.com

VirtualNetwork :

VpnType : None

PortalCustomHostnameConfiguration :

ProxyCustomHostnameConfiguration : {contosoapi2.azure-api.net}

ManagementCustomHostnameConfiguration :

ScmCustomHostnameConfiguration :

DeveloperPortalHostnameConfiguration :

SystemCertificates :

Tags : {}

AdditionalRegions : {}

SslSetting : Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementSslSetting

Identity :

EnableClientCertificate :

ResourceGroupName : ContosoGroup02

This command creates a Developer tier API Management service. The command specifies the organization and the administrator address. The command does not specify the SKU parameter. Therefore, the cmdlet uses the default value of Developer.

Example 2: Create a Standard tier service that has three units

```
New-AzApiManagement -ResourceGroupName "ContosoGroup02" -Name "ContosoApi" -Location "Central US"
-Organization "Contoso" -AdminEmail "admin@contoso.com" -Sku
Standard -Capacity 3
```

This command creates a Standard tier API Management service that has three units.

----- Example 3: Create a Consumption tier service -----

```
New-AzApiManagement -ResourceGroupName Api-Default-North-Europe -Name consumptionskuservice -Location 'West
Europe' -Sku Consumption -Organization microsoft
-AdminEmail contoso@contoso.com -SystemAssignedIdentity -EnableClientCertificate
```

```
PublicIPAddresses      :
PrivateIPAddresses     :
Id                     :
```

```
/subscriptions/subid/resourceGroups/Api-Default-North-Europe/providers/Microsoft.ApiManagement/service/consumptionsk
uservice
```

```
Name                  : consumptionskuservice
Location              : West Europe
Sku                   : Consumption
Capacity              : 0
ProvisioningState     : Succeeded
RuntimeUrl             : https://consumptionskuservice.azure-api.net
PortalCustomHostnameConfiguration :
ProxyCustomHostnameConfiguration : {consumptionskuservice.azure-api.net}
ManagementCustomHostnameConfiguration :
ScmCustomHostnameConfiguration   :
DeveloperPortalHostnameConfiguration :
SystemCertificates        :
```

Tags : {}

AdditionalRegions : {}

SslSetting : Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementSslSetting

Identity : Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementServiceIdentity

EnableClientCertificate : True

ResourceGroupName : Api-Default-North-Europe

This command creates a consumption tier API Management service with Client Certificate enabled in west Europe.

Example 4: Create an API Management service and Enable TLS 1.0 protocol

```
$enableTls=@{"Tls10" = "True"}
```

```
$sslSetting = New-AzApiManagementSslSetting -FrontendProtocol $enableTls -BackendProtocol $enableTls
```

```
New-AzApiManagement -ResourceGroupName Api-Default-CentralUS -Name "testtlspowershell" -Sku Standard
-Location "CentralUS" -Organization "Microsoft" -AdminEmail
"bar@contoso.com" -SslSetting $sslSetting
```

PublicIPAddresses : {23.99.140.18}

PrivateIPAddresses :

Id :

```
/subscriptions/subid/resourceGroups/Api-Default-CentralUS/providers/Microsoft.ApiManagement/service/testtlspowershell
```

Name : testtlspowershell

Location : Central US

Sku : Standard

Capacity : 1

ProvisioningState : Succeeded

RuntimeUrl : https://testtlspowershell.azure-api.net

RuntimeRegionalUrl : https://testtlspowershell-centralus-01.regional.azure-api.net

PortalUrl : https://testtlspowershell.portal.azure-api.net

ManagementApiUrl : https://testtlspowershell.management.azure-api.net

ScmUrl : https://testtlspowershell.scm.azure-api.net

PublisherEmail : bar@contoso.com

OrganizationName : Microsoft
 NotificationSenderEmail : apimgmt-noreply@mail.windowsazure.com
 VirtualNetwork :
 VpnType : None
 PortalCustomHostnameConfiguration :
 ProxyCustomHostnameConfiguration : {testtlspowershell.azure-api.net}
 ManagementCustomHostnameConfiguration :
 ScmCustomHostnameConfiguration :
 DeveloperPortalHostnameConfiguration :
 SystemCertificates :
 Tags : {}
 AdditionalRegions : {}
 SslSetting : Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementSslSetting
 Identity :
 EnableClientCertificate :
 ResourceGroupName : Api-Default-CentralUS

This command creates a Standard SKU Api Management service and Enable TLS 1.0 on Frontend client to ApiManagement Gateway and Backend client between ApiManagement Gateway and Backend.

Example 5: Create an API Management service in Availability Zones

New-AzApiManagement -ResourceGroupName "contoso-rg" -Name "apim-test-pshell-azs" -Location "Central US"
 -Organization "Contoso" -AdminEmail "admin@contoso.com" -Sku
 Premium -Capacity 3 -Zone @("1","2","3")

PublicIPAddresses : {52.238.252.170}
 PrivateIPAddresses :
 Id :

ervice/apim-test-pshell-azs

Name : apim-test-pshell-azs

Location : Central US

Skus : Premium

Capacity : 3

CreatedTimeUtc : 7/30/2021 7:47:12 PM

ProvisioningState : Succeeded

RuntimeUrl : https://apim-test-pshell-azs.azure-api.net

RuntimeRegionalUrl : https://apim-test-pshell-azs-centralus-01.regional.azure-api.net

PortalUrl : https://apim-test-pshell-azs.portal.azure-api.net

DeveloperPortalUrl : https://apim-test-pshell-azs.developer.azure-api.net

ManagementApiUrl : https://apim-test-pshell-azs.management.azure-api.net

ScmUrl : https://apim-test-pshell-azs.scm.azure-api.net

PublisherEmail : admin@contoso.com

OrganizationName : Contoso

NotificationSenderEmail : apimgmt-noreply@mail.windowsazure.com

VirtualNetwork :

VpnType : None

PortalCustomHostnameConfiguration :

ProxyCustomHostnameConfiguration : {apim-test-pshell-azs.azure-api.net}

ManagementCustomHostnameConfiguration :

ScmCustomHostnameConfiguration :

DeveloperPortalHostnameConfiguration :

SystemCertificates :

Tags : {}

AdditionalRegions : {}

SslSetting : Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementSslSetting

Identity :

EnableClientCertificate :

Zone : {1, 2, 3}

DisableGateway : False

MinimalControlPlaneApiVersion :

ResourceGroupName : contoso-rg

This command creates a Premium SKU Api Management service in Zones

Example 6: Create an API Management service in Internal Mode into Virtual Network with Stv2

```
$virtualNetwork = New-AzApiManagementVirtualNetwork -SubnetResourceId
```

```
"/subscriptions/4f5285a3-9fd7-40ad-91b1-d8fc3823983d/resourceGroups/contosogroup/providers/Microsoft.Network/virtual  
Networks/apimvnet/subnets/ps"
```

```
$publicIpAddressId =
```

```
"/subscriptions/4f5285a3-9fd7-40ad-91b1-d8fc3823983d/resourceGroups/contosogroup/providers/Microsoft.Network/publicI  
PAddresses/apim-external-vnet-ipv4"
```

```
New-AzApiManagement -ResourceGroupName "contosogroup" -Location "West US2" -Name "pctestinternalvnet2"  
-Organization "Contoso" -AdminEmail "admin@contoso.com"  
-VirtualNetwork $virtualNetwork -VpnType "Internal" -Sku "Premium" -PublicIpAddressId $publicIpAddressId
```

```
PublicIPAddresses      : {20.99.249.73}
```

```
PrivateIPAddresses     : {10.0.2.4}
```

```
Id                      :
```

```
/subscriptions/4f5285a3-9fd7-40ad-91b1-d8fc3823983d/resourceGroups/contosogroup/providers/Microsoft.ApiManagement  
/service/pctestinternalvnet2
```

```
Name                   : pctestinternalvnet2
```

```
Location               : West US 2
```

```
Sku                    : Premium
```

```
Capacity               : 1
```

```
CreatedTimeUtc         : 3/24/2022 11:09:57 PM
```

```
ProvisioningState      : Succeeded
```

```
RuntimeUrl             : https://pctestinternalvnet2.azure-api.net
```

```
RuntimeRegionalUrl     : https://pctestinternalvnet2-westus2-01.regional.azure-api.net
```

```
PortalUrl              : https://pctestinternalvnet2.portal.azure-api.net
```


DeveloperPortalUrl : https://pstestinternalvnet2.developer.azure-api.net
ManagementApiUrl : https://pstestinternalvnet2.management.azure-api.net
ScmUrl : https://pstestinternalvnet2.scm.azure-api.net
PublisherEmail : admin@contoso.com
OrganizationName : Contoso
NotificationSenderEmail : apimgmt-noreply@mail.windowsazure.com
VirtualNetwork : Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementVirtualNetwork
VpnType : Internal
PortalCustomHostnameConfiguration :
ProxyCustomHostnameConfiguration : {pstestinternalvnet2.azure-api.net}
ManagementCustomHostnameConfiguration :
ScmCustomHostnameConfiguration :
DeveloperPortalHostnameConfiguration :
SystemCertificates :
Tags : {}
AdditionalRegions : {}
SslSetting : Microsoft.Azure.Commands.ApiManagement.Models.PsApiManagementSslSetting
Identity :
EnableClientCertificate :
Zone :
DisableGateway :
MinimalControlPlaneApiVersion :
PublicIpAddressId :

/subscriptions/4f5285a3-9fd7-40ad-91b1-d8fc3823983d/resourceGroups/contosogroup/providers/Microsoft.Network/publicIP
Addresses/apim-external-vnet-ipv4

PlatformVersion : stv2
PublicNetworkAccess : Enabled
PrivateEndpointConnections :
ResourceGroupName : contosogroup

The cmdlet deploys the API Management service into Virtual Network using stv2 platform version.

Example 7: Create an API Management service for an external virtual network for Stv1

```
$virtualNetwork = New-AzApiManagementVirtualNetwork -SubnetResourceId  
"/subscriptions/a8ff56dc-3bc7-4174-b1e8-3726ab15d0e2/resourceGroups/ContosoGroup/providers/Micros  
oft.Network/virtualNetworks/westUsVirtualNetwork/subnets/backendSubnet"  
New-AzApiManagement -ResourceGroupName "ContosoGroup" -Location "West US" -Name "ContosoApi" -Organization  
Contoso -AdminEmail admin@contoso.com -VirtualNetwork  
$virtualNetwork -VpnType "External" -Sku "Premium"
```

This command creates a Premium-tier API Management service in an Azure virtual network subnet having an external-facing gateway endpoint with a master region in the

West US in stv1 model

RELATED LINKS

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

Backup-AzApiManagement

Get-AzApiManagement

Set-AzApiManagement

Remove-AzApiManagement

Restore-AzApiManagement