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# Windows PowerShell Get-Help on Cmdlet 'New-AzApplicationGatewayFrontendlPConfig'

## PS:\>Get-HELP New-AzApplicationGatewayFrontendIPConfig -Full

WARNING: The names of some imported commands from the module 'Microsoft.Azure.PowerShell.Cmdlets.Network' 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.

## NAME

New-AzApplicationGatewayFrontendIPConfig

## SYNOPSIS

Creates a front-end IP configuration for an application gateway.

## SYNTAX

	New-AzApplication	GatewayFrontendIPCon	fig [-De	faultProfile
<microsoft.azure.commands.common.authentication.abstractions.core.iazurecontextcontainer>] -Name</microsoft.azure.commands.common.authentication.abstractions.core.iazurecontextcontainer>				
<system.string< td=""><td>;&gt; [-PrivateIPAddress]</td><td><system.string>]</system.string></td><td>[-PrivateLinkCo</td><td>onfiguration</td></system.string<>	;> [-PrivateIPAddress]	<system.string>]</system.string>	[-PrivateLinkCo	onfiguration
<microsoft.azure.commands.network.models.psapplicationgatewayprivatelinkconfiguration>]</microsoft.azure.commands.network.models.psapplicationgatewayprivatelinkconfiguration>				
[-PublicIPAddress	<microsoft.azure.comman< td=""><td>ds.Network.Models.PSP</td><td>ubliclpAddress&gt;]</td><td>[-Subnet</td></microsoft.azure.comman<>	ds.Network.Models.PSP	ubliclpAddress>]	[-Subnet
<microsoft.azure.commands.network.models.pssubnet>1 [<commonparameters>]</commonparameters></microsoft.azure.commands.network.models.pssubnet>				

<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] -Name <System.String> [-PrivateIPAddress <System.String>] [-PrivateLinkConfigurationId <System.String>] [-PublicIPAddressId <System.String>] [-SubnetId <System.String>] [<CommonParameters>]

#### DESCRIPTION

The New-AzApplicationGatewayFrontendIPConfig cmdlet creates a front-end IP configuration for an Azure application gateway. An application gateway supports two types

of front-end IP configuration: - Public IP addresses -- Private IP addresses using internal load balancing (ILB). An application gateway can have at most one

public IP address and one private IP address. The public IP address and private IP address should be added separately as front-end IP addresses.

#### PARAMETERS

-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 ir	put? False
Accept wildcard of	characters? false

#### -Name <System.String>

Specifies the name of the front-end IP configuration that this cmdlet creates.

Required?	true
Position?	named
Default value	None
Accept pipeline in	put? False
Accept wildcard o	haracters? false

-PrivateIPAddress <System.String>

Specifies the private IP address which this cmdlet associates with the front-end IP address of the application gateway. This can be specified only if a subnet is

specified. This IP is statically allocated from the subnet.

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

-PrivateLinkConfiguration < Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayPrivateLinkConfiguration > PrivateLinkConfiguration

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

# -PrivateLinkConfigurationId <System.String>

PrivateLinkConfigurationId

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

-PublicIPAddress <Microsoft.Azure.Commands.Network.Models.PSPublicIpAddress>

Specifies the public IP address object which this cmdlet associates with the front-end IP address of the application

Required?falsePosition?namedDefault valueNoneAccept pipeline input?FalseAccept wildcard characters?false

#### -PublicIPAddressId <System.String>

Specifies the public IP address ID which this cmdlet associates with the front-end IP of the application gateway.

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

#### -Subnet <Microsoft.Azure.Commands.Network.Models.PSSubnet>

Specifies the subnet object which this cmdlet associates with the front-end IP address of the application gateway. If you specify this parameter, it implies that

the gateway uses a private IP address. If the PrivateIPAddress parameter is specified, it should belong to the subnet specified by this parameter. If

PrivateIPAddress is not specified, one of the IP addresses from this subnet is dynamically picked up as the front-end IP address of the application gateway.

Required?	false
Position?	named
Default value	None
Accept pipeline inpu	it? False

Accept wildcard characters? false

#### -SubnetId <System.String>

Specifies the subnet ID which this cmdlet associates with the front-end IP configuration of the application gateway. If

implies that the gateway uses a private IP address. If the PrivateIPAddress parameter is specified, it should belong to the subnet specified by Subnet . If

PrivateIPAddress is not specified, one of the IP addresses from this subnet is dynamically picked up as the front-end IP address of the application gateway.

Required?falsePosition?namedDefault valueNoneAccept pipeline input?FalseAccept 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. Network. Models. PSA pplication Gateway Frontend IPC on figuration

## NOTES

\$PublicIP = New-AzPublicIpAddress -ResourceGroupName "ResourceGroup01" -Name "PublicIP01" -location "West US"
-AllocationMethod Dynamic

\$FrontEnd = New-AzApplicationGatewayFrontendIPConfig -Name "FrontEndIP01" -PublicIPAddress \$PublicIP

The first command creates a public IP resource object and stores it in the \$PublicIP variable. The second command uses \$PublicIP to create a new front-end IP

configuration named FrontEndIP01 and stores it in the \$FrontEnd variable.

Example 2: Create a static private IP as the front-end IP address

\$VNet = Get-AzVirtualNetwork -Name "VNet01" -ResourceGroupName "ResourceGroup01"

\$Subnet = Get-AzVirtualNetworkSubnetConfig -Name "Subnet01" -VirtualNetwork \$VNet

\$FrontEnd = New-AzApplicationGatewayFrontendIPConfig -Name "FrontendIP02" -Subnet \$Subnet -PrivateIPAddress
10.0.1.1

The first command gets a virtual network named VNet01 that belongs to the resource group named ResourceGroup01,

and stores it in the \$VNet variable. The second

command gets a subnet configuration named Subnet01 using \$VNet from the first command and stores it in the \$Subnet variable. The third command creates a front-end IP

configuration named FrontEndIP02 using \$Subnet from the second command and the private IP address 10.0.1.1, and then stores it in the \$FrontEnd variable.

Example 3: Create a dynamic private IP as the front-end IP address

\$VNet = Get-AzVirtualNetwork -Name "VNet01" -ResourceGroupName "ResourceGroup01"

\$Subnet = Get-AzVirtualNetworkSubnetConfig -Name "Subnet01" -VirtualNetwork \$VNet

\$FrontEnd = New-AzApplicationGatewayFrontendIPConfig -Name "FrontendIP03" -Subnet \$Subnet

The first command gets a virtual network named VNet01 that belongs to the resource group named ResourceGroup01,

command gets a subnet configuration named Subnet01 using \$VNet from the first command and stores it in the \$Subnet

variable. The third command creates a front-end IP

configuration named FrontEndIP03 using \$Subnet from the second command, and stores it in the \$FrontEnd variable.

# **RELATED LINKS**

Online Version: https://learn.microsoft.com/powershell/module/az.network/new-azapplicationgatewayfrontendipconfig

- Add-AzApplicationGatewayFrontendIPConfig
- Get-AzApplicationGatewayFrontendIPConfig
- Remove-AzApplicationGatewayFrontendIPConfig
- Set-AzApplicationGatewayFrontendIPConfig