Windows PowerShell Get-Help on Cmdlet 'Set-AzApplicationGatewayFrontendIPConfig'

PS:\>Get-HELP Set-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

   Set-AzApplicationGatewayFrontendIPConfig

SYNOPSIS

   Modifies a front-end IP address configuration.

SYNTAX

   Set-AzApplicationGatewayFrontendIPConfig   -ApplicationGateway <Microsoft.Azure.Commands.Network.Models.PSApplicationGateway> [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]   -Name <System.String> [-PrivateIPAddress <System.String>]

   [-PrivateLinkConfiguration <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayPrivateLinkConfiguration>] [-PublicIPAddress <Microsoft.Azure.Commands.Network.Models.PSPublicIpAddress>]   [-Subnet <Microsoft.Azure.Commands.Network.Models.PSSubnet>] [<CommonParameters>]

Set-AzApplicationGatewayFrontendIPConfig -ApplicationGateway <Microsoft.Azure.Commands.Network.Models.PSApplicationGateway> [-DefaultProfile <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 Set-AzApplicationGatewayFrontendIPConfig cmdlet updates a front-end IP configuration. An application gateway supports two types of front-end IP addresses: -

Public IP addresses

- Private IP addresses for which the configuration uses Internal Load Balancing (ILB)

An application gateway can have at most one public IP address and one private IP address. A public IP address and a private IP address should be added separately as

front-end IP addresses.

PARAMETERS

-ApplicationGateway <Microsoft.Azure.Commands.Network.Models.PSApplicationGateway>

Specifies an application gateway object in which to modify the front-end IP configuration.

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

-Name <System.String>

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

   Required?   true

   Position?   named

   Default value   None

   Accept pipeline input?   False

   Accept wildcard characters? false

-PrivateIPAddress <System.String>

   Specifies the private IP address. If specified, this IP is statically allocated from the subnet.

   Required?   false

   Position?   named

   Default value   None

   Accept pipeline input?   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.

   Required?   false

   Position?   named

   Default value   None

   Accept pipeline input?   False

   Accept wildcard characters? false

-PublicIPAddressId <System.String>

   Specifies the ID of the public IP address.

   Required?   false

   Position?   named

   Default value   None

   Accept pipeline input?   False

   Accept wildcard characters? false

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

   Specifies the subnet that the application gateway uses. Specify this parameter if the gateway uses a private IP address. If the PrivateIPAddress address is

   specified, it should belong to this 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?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-SubnetId <System.String>

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

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?   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

Microsoft.Azure.Commands.Network.Models.PSApplicationGateway

OUTPUTS

Microsoft.Azure.Commands.Network.Models.PSApplicationGateway

NOTES

Example 1: Set a public IP as front-end IP of an application gateway

    $PublicIp = New-AzPublicIpAddress -ResourceGroupName "ResourceGroup01" -Name "PublicIp01" -location "West US" -AllocationMethod Dynamic
    $AppGw = Get-AzApplicationGateway -Name "ApplicationGateway01" -ResourceGroupName "ResourceGroup01"
        $AppGw = Set-AzApplicationGatewayFrontendIPConfig -ApplicationGateway $AppGw -Name "FrontEndIp01" -PublicIPAddress $PublicIp

    The first command creates a public IP address object and stores it in the $PublicIp variable. The second command gets the application gateway named
    ApplicationGateway01 that belongs to the resource group named ResourceGroup01, and stores it in the $AppGw variable. The third command updates the front-end IP
    configuration named FrontEndIp01, for the gateway in $AppGw, using the address stored in $PublicIp.

Example 2: Set a static private IP as the front-end IP of an application gateway

    $VNet = Get-AzVirtualNetwork -Name "VNet01" -ResourceGroupName "ResourceGroup01"
    $Subnet = Get-AzVirtualNetworkSubnetConfig -Name "Subnet01" -VirtualNetwork $VNet
    $AppGw = Get-AzApplicationGateway -Name "ApplicationGateway01" -ResourceGroupName "ResourceGroup01"
     $AppGw = Set-AzApplicationGatewayFrontendIPConfig -ApplicationGateway $AppGw -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 gets the application

gateway named ApplicationGateway01 that belongs to the resource group named ResourceGroup01, and stores it in the

$AppGw variable. The fourth command adds a front-end

IP configuration named FrontendIP02 using $Subnet from the second command and the private IP address 10.0.1.1.

Example 3: Set a dynamic private IP as the front-end IP of an application gateway

```
$VNet = Get-AzVirtualNetwork -Name "VNet01" -ResourceGroupName "ResourceGroup01"
$Subnet = Get-AzVirtualNetworkSubnetConfig -Name "Subnet01" -VirtualNetwork $VNet
$AppGw = Get-AzApplicationGateway -Name "ApplicationGateway01" -ResourceGroupName "ResourceGroup01"
$AppGw = Set-AzApplicationGatewayFrontendIPConfig -ApplicationGateway $AppGw -Name "FrontendIP02" -Subnet $Subnet
```

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 gets the application

gateway named ApplicationGateway01 that belongs to the resource group named ResourceGroup01, and stores it in the

$AppGw variable. The fourth command adds a front-end

IP configuration named FrontendIP02 using $Subnet from the second command.

RELATED LINKS

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

Add-AzApplicationGatewayFrontendIPConfig

Add-AzApplicationGatewayFrontendIPConfig

Get-AzApplicationGatewayFrontendIPConfig

New-AzApplicationGatewayFrontendIPConfig

Remove-AzApplicationGatewayFrontendIPConfig