



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

PS:\>Get-HELP Add-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

Add-AzApplicationGatewayFrontendIPConfig

SYNOPSIS

Adds a front-end IP configuration to an application gateway.

SYNTAX

```

Add-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>]

```

```
<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 Add-AzApplicationGatewayFrontendIPConfig cmdlet adds a front-end IP configuration to an application gateway. An application gateway supports two types of

front-end IP configurations:

- Public IP addresses

- Private IP addresses using internal load-balancing (ILB)

An application gateway can have at most one public IP and one private IP. Add the public IP address and private IP address as separate front-end IPs.

PARAMETERS

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

Specifies the application gateway to which this cmdlet adds a 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 to add.

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

-PrivateIPAddress <System.String>

Specifies the private IP address to add as a front-end IP for the application gateway. 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 which this cmdlet adds as a front-end IP address for the application gateway.

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 which this cmdlet adds as a front-end IP address for the application gateway.

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 which this cmdlet adds as front-end IP configuration. If you specify this parameter, it implies that the application gateway supports a

private IP based-configuration. 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

-SubnetId <System.String>

Specifies the subnet ID which this cmdlet adds as the front-end IP configuration. Passing subnet implies private IP. If the PrivateIpAddress parameter is

specified, it should belong to this subnet. Otherwise, one of the IP from this subnet is dynamically picked up as the front-end IP 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: Add a public IP as the front-end IP address ----

```
$PublicIp = New-AzPublicIpAddress -ResourceGroupName "ResourceGroup01" -Name "PublicIp01" -location "West US"
-AllocationMethod Dynamic

$AppGw = Get-AzApplicationGateway -Name "ApplicationGateway01" -ResourceGroupName "ResourceGroup01"

$AppGw = Add-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 adds the front-end IP configuration named FrontEndIp01, for the gateway in \$AppGw, using the address stored in \$PublicIp.

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

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

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

$AppGw = Get-AzApplicationGateway -Name "ApplicationGateway01" -ResourceGroupName "ResourceGroup01"

$AppGw = Add-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: Add a dynamic private IP as the front-end IP address

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

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

```
$AppGw = Get-AzApplicationGateway -Name "ApplicationGateway01" -ResourceGroupName "ResourceGroup01"
```

```
$AppGw = Add-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/add-azapplicationgatewayfrontendipconfig>

Get-AzApplicationGatewayFrontendIPConfig

New-AzApplicationGatewayFrontendIPConfig

Remove-AzApplicationGatewayFrontendIPConfig

Set-AzApplicationGatewayFrontendIPConfig

