



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

PS: \>Get-HELP New-AzApplicationGateway -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-AzApplicationGateway

SYNOPSIS

Creates an application gateway.

SYNTAX

New-AzApplicationGateway [-AsJob] [-AuthenticationCertificates

<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayAuthenticationCertificate[]>]

[-AutoscaleConfiguration <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayAutoscaleConfiguration>]

-BackendAddressPools

<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendAddressPool[]>]

[-BackendHttpSettingsCollection

<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendHttpSettings[]>]

[-BackendSettingsCollection

```

<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendSettings[]> [-CustomErrorConfiguration
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayCustomError[]> [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EnableFIPS]
[-EnableHttp2] [-EnableRequestBuffering <System.Boolean>]
    [-EnableResponseBuffering <System.Boolean>] [-FirewallPolicy
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayWebApplicationFirewallPolicy>] [-Force]
    [-ForceFirewallPolicyAssociation] [-FrontendIPConfigurations
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayFrontendIPConfiguration[]>] [-FrontendPorts
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayFrontendPort[]>] [-GatewayIPConfigurations
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayIPConfiguration[]>] [-HttpListeners
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayHttpListener[]>] [-Listeners
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayListener[]>]
    [-Location <System.String>] [-Name <System.String>] [-PrivateLinkConfiguration
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayPrivateLinkConfiguration[]>]
    [-Probes <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayProbe[]>] [-RedirectConfigurations
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRedirectConfiguration[]>] [-RequestRoutingRules
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRequestRoutingRule[]>] [-ResourceGroupName
<System.String>] [-RewriteRuleSet
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRewriteRuleSet[]>] [-RoutingRules
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRoutingRule[]>] [-Sku
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySku>] [-SslCertificates
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslCertificate[]>] [-SslPolicy
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslPolicy>]
    [-SslProfiles <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslProfile[]>] [-Tag
<System.Collections.Hashtable>] [-TrustedClientCertificates
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayTrustedClientCertificate[]>] [-TrustedRootCertificate
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayTrustedRootCertificate[]>] [-UrlPathMaps
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayUrlPathMap[]>]
[-WebApplicationFirewallConfiguration
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayWebApplicationFirewallConfiguration>] [-Zone
<System.String[]>] [-Confirm] [-WhatIf] [<CommonParameters>]

```

```

<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayAuthenticationCertificate[]>
    [-AutoscaleConfiguration <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayAutoscaleConfiguration>]
-BackendAddressPools
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendAddressPool[]>
[-BackendHttpSettingsCollection
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendHttpSettings[]>]
[-BackendSettingsCollection
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendSettings[]>] [-CustomErrorConfiguration
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayCustomError[]>] [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EnableFIPS]
[-EnableHttp2] [-EnableRequestBuffering <System.Boolean>]
    [-EnableResponseBuffering <System.Boolean>] [-FirewallPolicyId <System.String>] [-Force]
[-ForceFirewallPolicyAssociation] [-FrontendIPConfigurations
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayFrontendIPConfiguration[]>] -FrontendPorts
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayFrontendPort[]> -GatewayIPConfigurations
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayIPConfiguration[]> [-HttpListeners
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayHttpListener[]>] [-Listeners
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayListener[]>
    -Location <System.String> -Name <System.String> [-PrivateLinkConfiguration
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayPrivateLinkConfiguration[]>]
    [-Probes <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayProbe[]>] [-RedirectConfigurations
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRedirectConfiguration[]>] [-RequestRoutingRules
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRequestRoutingRule[]>] -ResourceGroupName
<System.String> [-RewriteRuleSet
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRewriteRuleSet[]>] [-RoutingRules
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRoutingRule[]>] -Sku
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySku> [-SslCertificates
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslCertificate[]>] [-SslPolicy
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslPolicy>]
    [-SslProfiles <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslProfile[]>] [-Tag
<System.Collections.Hashtable>] [-TrustedClientCertificates
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayTrustedClientCertificate[]>] [-TrustedRootCertificate
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayTrustedRootCertificate[]>] [-UrlPathMap

```

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<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayUrlPathMap[]>

[-WebApplicationFirewallConfiguration

    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayWebApplicationFirewallConfiguration>] [-Zone
<System.String[]>] [-Confirm] [-WhatIf] [<CommonParameters>]

                                New-AzApplicationGateway          [-AsJob]          [-AuthenticationCertificates
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayAuthenticationCertificate[]>]

    [-AutoscaleConfiguration <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayAutoscaleConfiguration>]
-BackendAddressPools

                                <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendAddressPool[]>

[-BackendHttpSettingsCollection

                                <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendHttpSettings[]>]

[-BackendSettingsCollection

    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendSettings[]>] [-CustomErrorConfiguration
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayCustomError[]>] [-DefaultProfile
        <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EnableFIPS]
[-EnableHttp2] [-EnableRequestBuffering <System.Boolean>]

    [-EnableResponseBuffering <System.Boolean>] [-Force] [-ForceFirewallPolicyAssociation] [-FrontendIPConfigurations
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayFrontendIPConfiguration[]>] -FrontendPorts
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayFrontendPort[]> -GatewayIPConfigurations
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayIPConfiguration[]> [-HttpListeners
        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayHttpListener[]>] -Identity
<Microsoft.Azure.Commands.Network.Models.PSManagedServiceIdentity> [-Listeners

    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayListener[]>] -Location <System.String> -Name
<System.String> [-PrivateLinkConfiguration

    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayPrivateLinkConfiguration[]>] [-Probes
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayProbe[]>] [-RedirectConfigurations
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRedirectConfiguration[]>] [-RequestRoutingRules
        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRequestRoutingRule[]>] -ResourceGroupName
<System.String> [-RewriteRuleSet

    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRewriteRuleSet[]>] [-RoutingRules
        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRoutingRule[]>] -Sku
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySku> [-SslCertificates

```

```

        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslCertificate[]>    [-SslPolicy
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslPolicy>]

        [-SslProfiles    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslProfile[]>]    [-Tag
<System.Collections.Hashtable>] [-TrustedClientCertificates

        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayTrustedClientCertificate[]>] [-TrustedRootCertificate
        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayTrustedRootCertificate[]>] [-UrlPathMaps
                <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayUrlPathMap[]>]
[-WebApplicationFirewallConfiguration

        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayWebApplicationFirewallConfiguration>] [-Zone
<System.String[]>] [-Confirm] [-WhatIf] [<CommonParameters>]

New-AzApplicationGateway        [-AsJob]        [-AuthenticationCertificates
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayAuthenticationCertificate[]>

        [-AutoscaleConfiguration <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayAutoscaleConfiguration>]
-BackendAddressPools

        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendAddressPool[]>
[-BackendHttpSettingsCollection

        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendHttpSettings[]>]
[-BackendSettingsCollection

        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendSettings[]>] [-CustomErrorConfiguration
        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayCustomError[]>] [-DefaultProfile

        <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EnableFIPS]
[-EnableHttp2] [-EnableRequestBuffering <System.Boolean>]

        [-EnableResponseBuffering <System.Boolean>] [-Force] [-ForceFirewallPolicyAssociation] [-FrontendIPConfigurations
        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayFrontendIPConfiguration[]>] -FrontendPorts
        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayFrontendPort[]> -GatewayIPConfigurations
        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayIPConfiguration[]> [-HttpListeners

                <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayHttpListener[]>]    [-Listeners
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayListener[]>]

        -Location    <System.String>    -Name    <System.String>    [-PrivateLinkConfiguration
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayPrivateLinkConfiguration[]>]

        [-Probes <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayProbe[]>] [-RedirectConfigurations
        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRedirectConfiguration[]>] [-RequestRoutingRules

```

```

    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRequestRoutingRule[]>] -ResourceGroupName
<System.String> [-RewriteRuleSet
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRewriteRuleSet[]>] [-RoutingRules
        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRoutingRule[]>] -Sku
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySku> [-SslCertificates
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslCertificate[]>] [-SslPolicy
<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslPolicy>]
    [-SslProfiles <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslProfile[]>] [-Tag
<System.Collections.Hashtable>] [-TrustedClientCertificates
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayTrustedClientCertificate[]>] [-TrustedRootCertificate
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayTrustedRootCertificate[]>] [-UrlPathMaps
        <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayUrlPathMap[]>] [-UserAssignedIdentityId
<System.String>] [-WebApplicationFirewallConfiguration
    <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayWebApplicationFirewallConfiguration>] [-Zone
<System.String[]>] [-Confirm] [-WhatIf] [<CommonParameters>]

```

DESCRIPTION

The `New-AzApplicationGateway` cmdlet creates an Azure application gateway. An application gateway requires the following:

- A resource group.
- A virtual network.
- A back-end server pool, containing the IP addresses of the back-end servers.
- Back-end server pool settings. Each pool has settings such as port, protocol and cookie-based affinity, that are applied to all servers within the pool.
- Front-end IP addresses, which are the IP addresses opened on the application gateway. A front-end IP address can be a public IP address or an internal IP address.
- Front-end ports, which are the public ports opened on the application gateway. Traffic that hits these ports is redirected to the back-end servers.

- A request routing rule that binds the listener and the back-end server pool. The rule defines which back-end server pool the traffic should be directed to when it hits a particular listener.

A listener has a front-end port, front-end IP address, protocol (HTTP or HTTPS) and Secure Sockets Layer (SSL) certificate name (if configuring SSL offload).

PARAMETERS

-AsJob <System.Management.Automation.SwitchParameter>

Run cmdlet in the background

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-AuthenticationCertificates

<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayAuthenticationCertificate[]>

Specifies authentication certificates for the application gateway.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-AutoscaleConfiguration <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayAutoscaleConfiguration>

Autoscale Configuration

Required? false

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

-BackendAddressPools <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendAddressPool[]>

Specifies the list of back-end address pools for the application gateway.

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

-BackendHttpSettingsCollection

<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendHttpSettings[]>

Specifies the list of back-end HTTP settings for the application gateway.

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

-BackendSettingsCollection <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendSettings[]>

The list of backend settings

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

-CustomErrorConfiguration <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayCustomError[]>

Customer error of an application gateway

Required? false

Position? named

Default value None

Accept pipeline input? False

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

-EnableFIPS <System.Management.Automation.SwitchParameter>

Whether FIPS is enabled.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-EnableHttp2 <System.Management.Automation.SwitchParameter>

Whether HTTP2 is enabled.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-EnableRequestBuffering <System.Boolean>

Whether Request Buffering is enabled.

Required? false

Position? named

Default value True

Accept pipeline input? False

Accept wildcard characters? false

-EnableResponseBuffering <System.Boolean>

Whether Response Buffering is enabled.

Required? false

Position? named

Default value True

Accept pipeline input? False

Accept wildcard characters? false

-FirewallPolicy <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayWebApplicationFirewallPolicy>

Firewall configuration

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-FirewallPolicyId <System.String>

FirewallPolicyId

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

-Force <System.Management.Automation.SwitchParameter>

Forces the command to run without asking for user confirmation.

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

-ForceFirewallPolicyAssociation <System.Management.Automation.SwitchParameter>

Whether Force firewallPolicy association is enabled.

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

-FrontendIPConfigurations

<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayFrontendIPConfiguration[]>

Specifies a list of front-end IP configurations for the application gateway.

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

-FrontendPorts <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayFrontendPort[]>

Specifies a list of front-end ports for the application gateway.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-GatewayIPConfigurations <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayIPConfiguration[]>

Specifies a list of IP configurations for the application gateway.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-HttpListeners <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayHttpListener[]>

Specifies a list of HTTP listeners for the application gateway.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Identity <Microsoft.Azure.Commands.Network.Models.PSManagedServiceIdentity>

Application Gateway Identity to be assigned to Application Gateway.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Listeners <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayListener[]>

The list of listener

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Location <System.String>

Specifies the region in which to create the application gateway.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Name <System.String>

Specifies the name of application gateway.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PrivateLinkConfiguration

The list of privateLink Configuration

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

-Probes <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayProbe[]>

Specifies probes for the application gateway.

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

-RedirectConfigurations <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRedirectConfiguration[]>

The list of redirect configuration

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

-RequestRoutingRules <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRequestRoutingRule[]>

Specifies a list of request routing rules for the application gateway.

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

Accept wildcard characters? false

-ResourceGroupName <System.String>

Specifies the name of the resource group in which to create the application gateway.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-RewriteRuleSet <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRewriteRuleSet[]>

The list of RewriteRuleSet

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-RoutingRules <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRoutingRule[]>

The list of routing rule

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Sku <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySku>

Specifies the stock keeping unit (SKU) of the application gateway.

Required? true

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

-SslCertificates <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslCertificate[]>

Specifies the list of Secure Sockets Layer (SSL) certificates for the application gateway.

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

-SslPolicy <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslPolicy>

Specifies an SSL policy for the application gateway.

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

-SslProfiles <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslProfile[]>

The list of ssl profiles

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

-Tag <System.Collections.Hashtable>

Key-value pairs in the form of a hash table. For example: @{key0="value0";key1=\$null;key2="value2"}

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

-TrustedClientCertificates

<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayTrustedClientCertificate[]>

The list of trusted client CA certificate chains

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

-TrustedRootCertificate <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayTrustedRootCertificate[]>

The list of trusted root certificates

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

-UrlPathMaps <Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayUrlPathMap[]>

Specifies URL path maps for the application gateway.

Required? false
Position? named
Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-UserAssignedIdentityId <System.String>

ResourceId of the user assigned identity to be assigned to Application Gateway.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-WebApplicationFirewallConfiguration

<Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayWebApplicationFirewallConfiguration>

Specifies a web application firewall (WAF) configuration. You can use the `Get-AzApplicationGatewayWebApplicationFirewallConfiguration` cmdlet to get a WAF.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Zone <System.String[]>

A list of availability zones denoting where the application gateway needs to come from.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Confirm <System.Management.Automation.SwitchParameter>

Prompts you for confirmation before running the cmdlet.

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

-WhatIf <System.Management.Automation.SwitchParameter>

Shows what would happen if the cmdlet runs. The cmdlet is not run.

Required?	false
Position?	named
Default value	False
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

System.String

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySku

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslPolicy

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayIPConfiguration[]

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewaySslCertificate[]

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayAuthenticationCertificate[]

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayTrustedRootCertificate[]

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayFrontendIPConfiguration[]

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayFrontendPort[]

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayProbe[]

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendAddressPool[]

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayBackendHttpSettings[]

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayHttpListener[]

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayUrlPathMap[]

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRequestRoutingRule[]

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRewriteRuleSet[]

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayRedirectConfiguration[]

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayWebApplicationFirewallConfiguration

Microsoft.Azure.Commands.Network.Models.PSApplicationGatewayAutoscaleConfiguration

System.Collections.Hashtable

Microsoft.Azure.Commands.Network.Models.PSManagedServiceIdentity

OUTPUTS

Microsoft.Azure.Commands.Network.Models.PSApplicationGateway

NOTES

```

$ResourceGroup = New-AzResourceGroup -Name "ResourceGroup01" -Location "West US" -Tag @{Name =
"Department"; Value = "Marketing"}

$Subnet = New-AzVirtualNetworkSubnetConfig -Name "Subnet01" -AddressPrefix 10.0.0.0/24

$VNet = New-AzVirtualNetwork -Name "VNet01" -ResourceGroupName "ResourceGroup01" -Location "West US"
-AddressPrefix 10.0.0.0/16 -Subnet $Subnet

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

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

$GatewayIpconfig = New-AzApplicationGatewayIPConfiguration -Name "GatewayIp01" -Subnet $Subnet

$Pool = New-AzApplicationGatewayBackendAddressPool -Name "Pool01" -BackendIPAddresses 10.10.10.1, 10.10.10.2,
10.10.10.3

$PoolSetting = New-AzApplicationGatewayBackendHttpSetting -Name "PoolSetting01" -Port 80 -Protocol "Http"
-CookieBasedAffinity "Disabled"

$FrontEndPort = New-AzApplicationGatewayFrontendPort -Name "FrontEndPort01" -Port 80

# Create a public IP address

$PublicIp = New-AzPublicIpAddress -ResourceGroupName "ResourceGroup01" -Name "PublicIpName01" -Location
"West US" -AllocationMethod "Dynamic"

$FrontEndIpConfig = New-AzApplicationGatewayFrontendIPConfig -Name "FrontEndConfig01" -PublicIpAddress
$PublicIp

$Listener = New-AzApplicationGatewayHttpListener -Name "ListenerName01" -Protocol "Http" -FrontendIpConfiguration
$FrontEndIpConfig -FrontendPort $FrontEndPort

$Rule = New-AzApplicationGatewayRequestRoutingRule -Name "Rule01" -RuleType basic -BackendHttpSettings
$PoolSetting -HttpListener $Listener -BackendAddressPool $Pool

$Sku = New-AzApplicationGatewaySku -Name "Standard_Small" -Tier Standard -Capacity 2

$Gateway = New-AzApplicationGateway -Name "AppGateway01" -ResourceGroupName "ResourceGroup01" -Location
"West US" -BackendAddressPools $Pool

-BackendHttpSettingsCollection $PoolSetting -FrontendIpConfigurations $FrontEndIpConfig -GatewayIpConfigurations
$GatewayIpConfig -FrontendPorts $FrontEndPort

-HttpListeners $Listener -RequestRoutingRules $Rule -Sku $Sku

```

The following example creates an application gateway by first creating a resource group and a virtual network, as well as the following: - A back-end server pool

- Back-end server pool settings

- Front-end ports

- Front-end IP addresses

- A request routing rule

These four commands create a virtual network. The first command creates a subnet configuration. The second command creates a virtual network. The third command

verifies the subnet configuration and the fourth command verifies that the virtual network is created successfully. The following commands create the application

gateway. The first command creates an IP configuration named GatewayIp01 for the subnet created previously. The second command creates a back-end server pool named

Pool01 with a list of back-end IP addresses and stores the pool in the \$Pool variable. The third command creates the settings for the back-end server pool and stores

the settings in the \$PoolSetting variable. The forth command creates a front-end port on port 80, names it FrontEndPort01, and stores the port in the \$FrontEndPort

variable. The fifth command creates a public IP address by using New-AzPublicIpAddress. The sixth command creates a front-end IP configuration using \$PublicIp, names

it FrontEndPortConfig01, and stores it in the \$FrontEndIpConfig variable. The seventh command creates a listener using the previously created \$FrontEndIpConfig

\$FrontEndPort. The eighth command creates a rule for the listener. The ninth command sets the SKU. The tenth command creates the gateway using the objects set by the previous commands.

Example 2: Create an application gateway with UserAssigned Identity

```
$ResourceGroup = New-AzResourceGroup -Name "ResourceGroup01" -Location "West US" -Tag @{Name = "Department"; Value = "Marketing"}
```

```
$Subnet = New-AzVirtualNetworkSubnetConfig -Name "Subnet01" -AddressPrefix 10.0.0.0/24
```

```
$VNet = New-AzVirtualNetwork -Name "VNet01" -ResourceGroupName "ResourceGroup01" -Location "West US"
```

-AddressPrefix 10.0.0.0/16 -Subnet \$Subnet

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

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

\$GatewayIpconfig = New-AzApplicationGatewayIPConfiguration -Name "GatewayIp01" -Subnet \$Subnet

\$Pool = New-AzApplicationGatewayBackendAddressPool -Name "Pool01" -BackendIPAddresses 10.10.10.1, 10.10.10.2,
10.10.10.3

\$PoolSetting = New-AzApplicationGatewayBackendHttpSetting -Name "PoolSetting01" -Port 80 -Protocol "Http"

-CookieBasedAffinity "Disabled"

\$FrontEndPort = New-AzApplicationGatewayFrontendPort -Name "FrontEndPort01" -Port 80

Create a public IP address

\$PublicIp = New-AzPublicIpAddress -ResourceGroupName "ResourceGroup01" -Name "PublicIpName01" -Location
"West US" -AllocationMethod "Dynamic"

\$FrontEndIpConfig = New-AzApplicationGatewayFrontendIPConfig -Name "FrontEndConfig01" -PublicIpAddress
\$PublicIp

\$Listener = New-AzApplicationGatewayHttpListener -Name "ListenerName01" -Protocol "Http" -FrontendIpConfiguration
\$FrontEndIpConfig -FrontendPort \$FrontEndPort

\$Rule = New-AzApplicationGatewayRequestRoutingRule -Name "Rule01" -RuleType basic -BackendHttpSettings
\$PoolSetting -HttpListener \$Listener -BackendAddressPool \$Pool

\$Sku = New-AzApplicationGatewaySku -Name "Standard_Small" -Tier Standard -Capacity 2

\$Identity = New-AzUserAssignedIdentity -Name "Identity01" -ResourceGroupName "ResourceGroup01" -Location "West
US"

\$AppgwIdentity = New-AzApplicationGatewayIdentity -UserAssignedIdentity \$Identity.Id

\$Gateway = New-AzApplicationGateway -Name "AppGateway01" -ResourceGroupName "ResourceGroup01" -Location
"West US" -Identity \$AppgwIdentity -BackendAddressPools \$Pool

-BackendHttpSettingsCollection \$PoolSetting -FrontendIpConfigurations \$FrontEndIpConfig -GatewayIpConfigurations
\$GatewayIpConfig -FrontendPorts \$FrontEndPort

-HttpListeners \$Listener -RequestRoutingRules \$Rule -Sku \$Sku

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

New-AzApplicationGatewayBackendAddressPool

New-AzApplicationGatewayBackendHttpSetting

New-AzApplicationGatewayFrontendIPConfig

New-AzApplicationGatewayFrontendPort

New-AzApplicationGatewayHttpListener

New-AzApplicationGatewayIPConfiguration

New-AzApplicationGatewayRequestRoutingRule

New-AzApplicationGatewaySku

New-AzVirtualNetwork

New-AzVirtualNetworkSubnetConfig