Overview

This documentation describes the deployment of an Azure Application Gateway in front of Imaging v3.

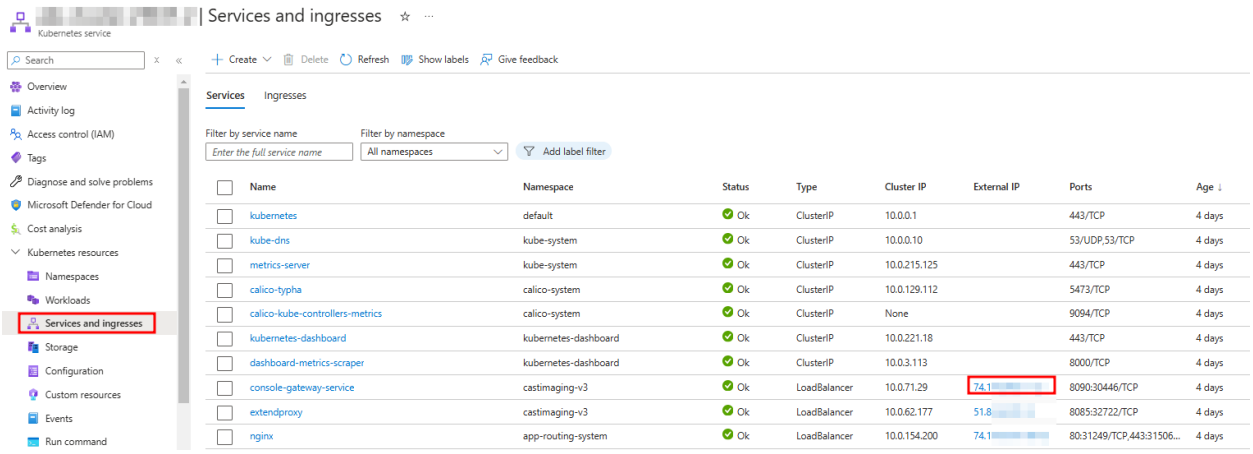
Prerequisites

- You own a valid certificate in the PFX format with the associated passphrase.
- You have the required permissions on your Azure tenant to create Application Gateways.
- You have the required permissions to create a DNS record on the desired DNS zone which will point to your Application Gateway listener IP address.

Procedure

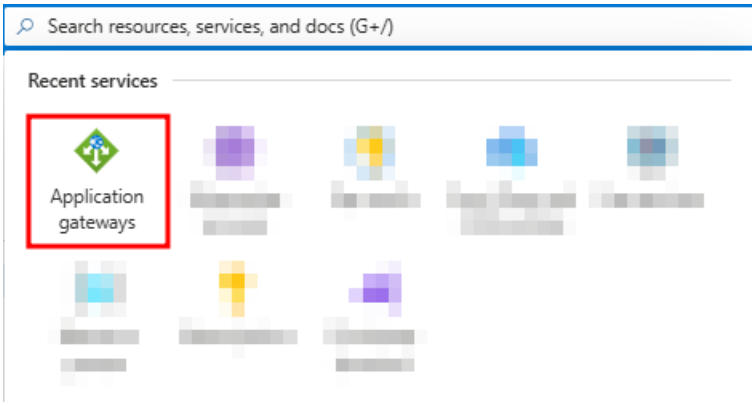
Retrieve console-gateway-service external IP

Retrieve the console-gateway-service pod external IP.

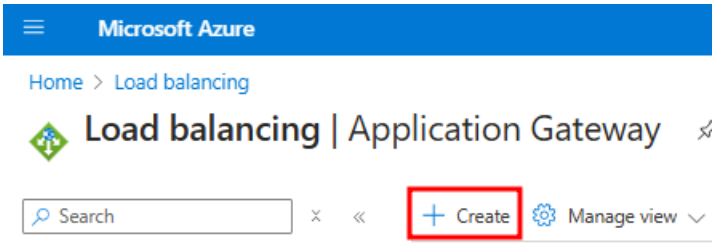


Create the Application Gateway

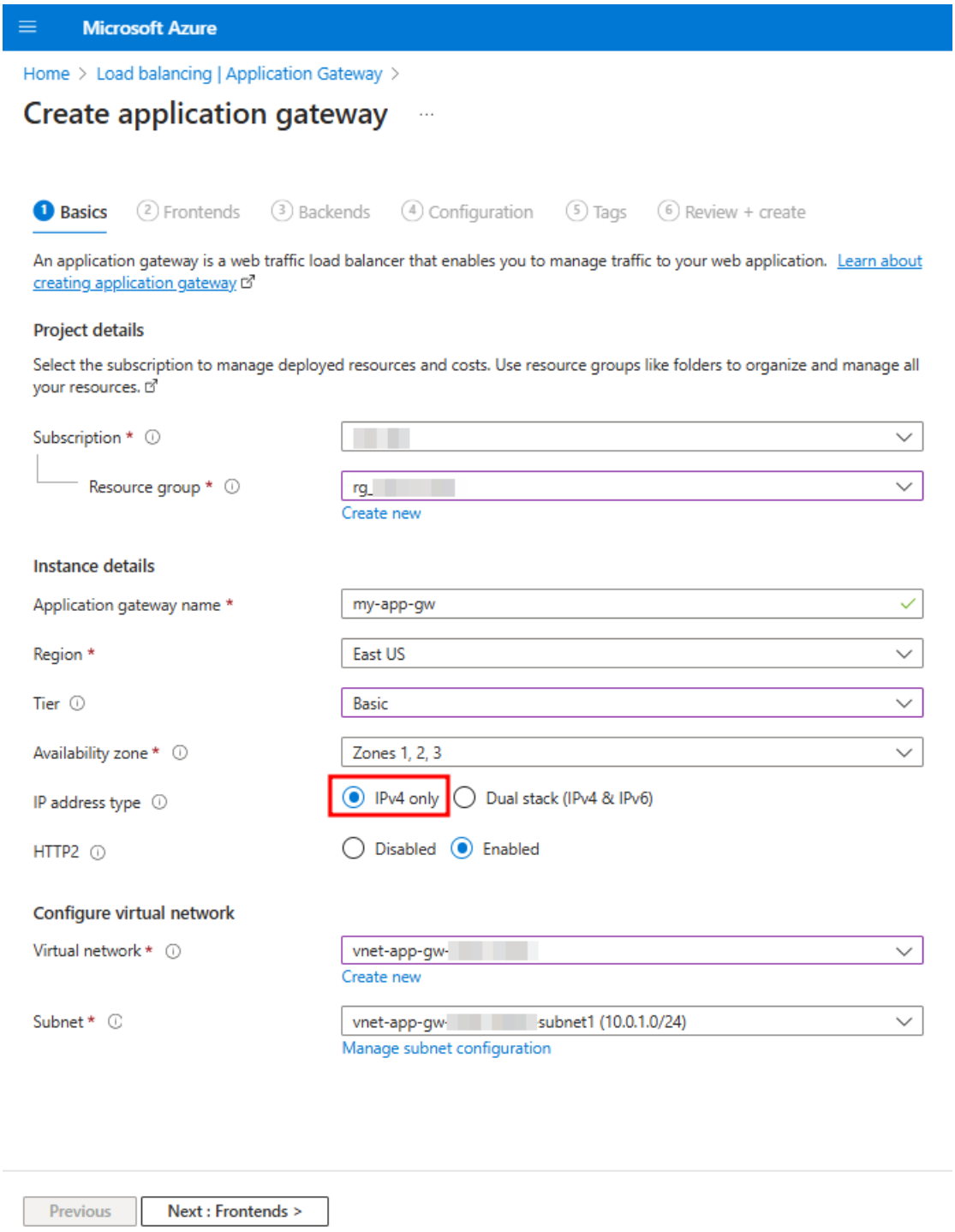
Search for the Azure Application Gateways service.



Create a new one.

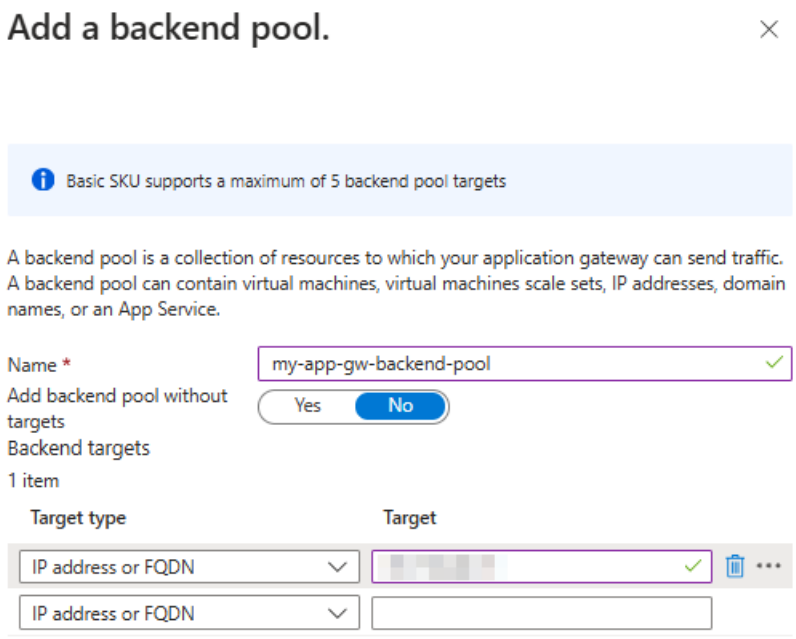


Set the usual settings as desired. You will need to use a subnet dedicated to Application Gateways. Only use IPv4 IP address types as IPv6 is not yet supported on Imaging.

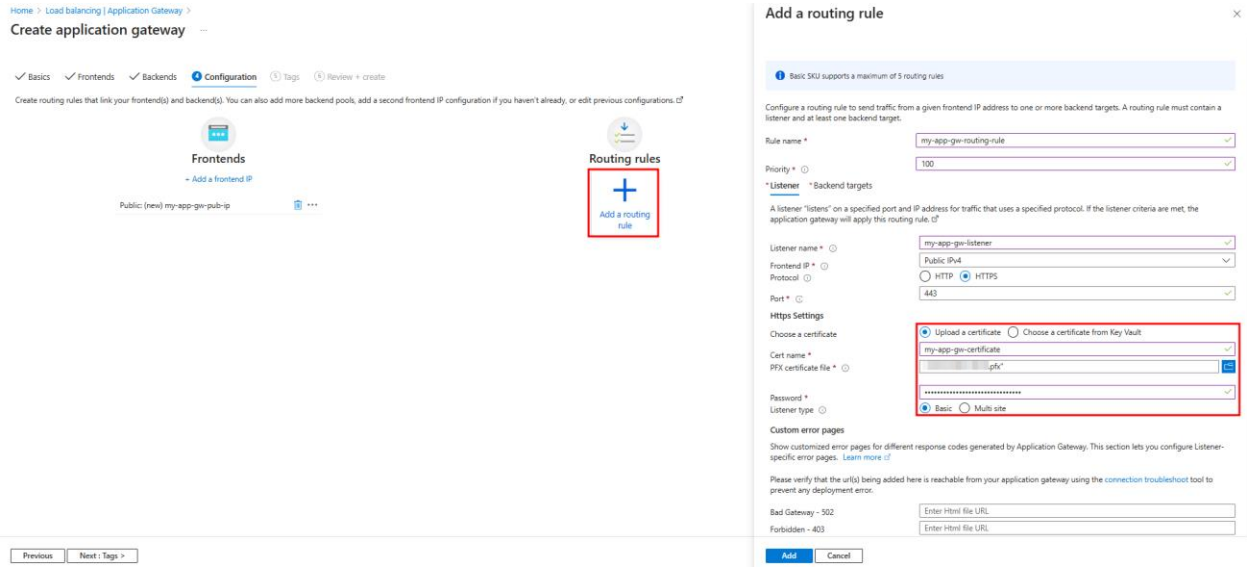


Configure a new IP address or use an existing one.

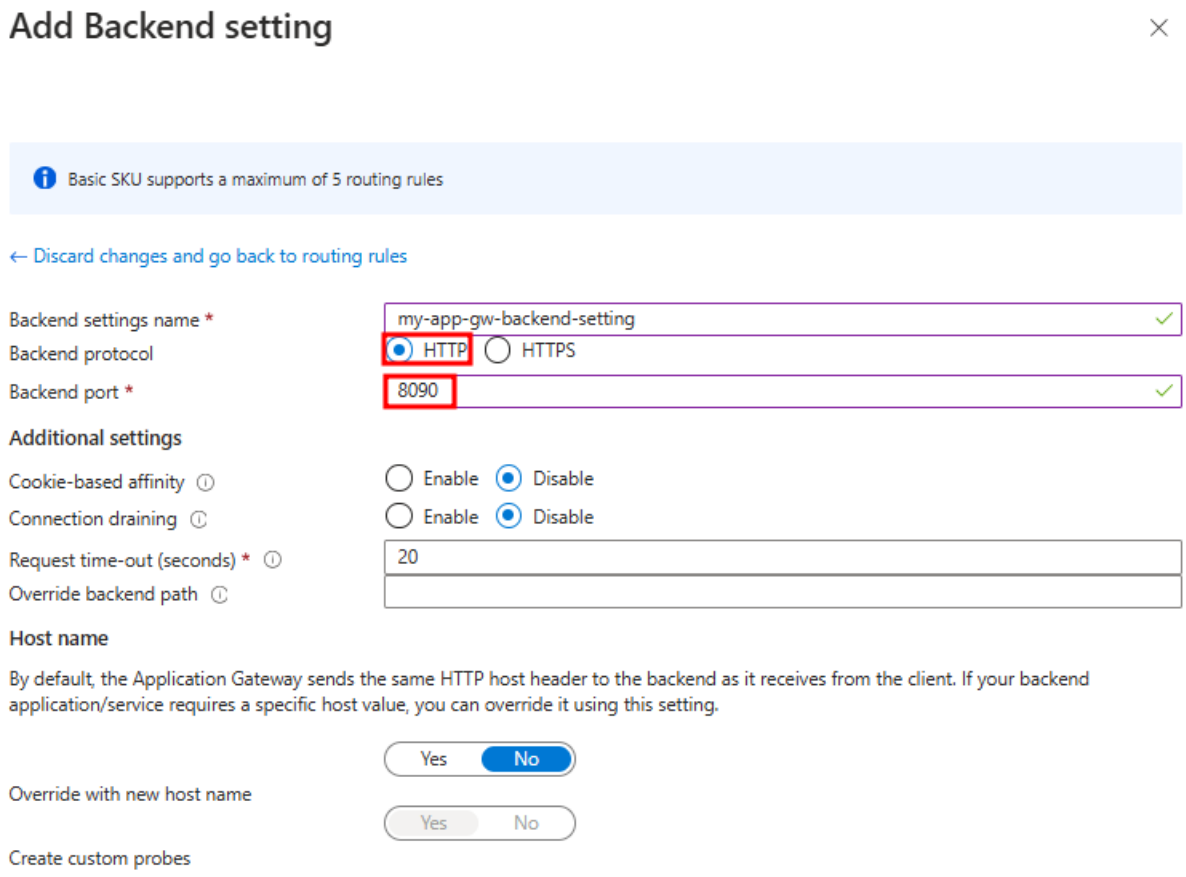
Create a new backend pool. Use the console-gateway-service external IP you retrieved above.



Configure the listener. Choose the “Upload a certificate” option and upload a certificate which will be valid for the FQDN you plan to use for the Application Gateway.



Configure the backend target with the following backend setting.



Add a routing rule

Basic SKU supports a maximum of 5 routing rules

Configure a routing rule to send traffic from a given frontend IP address to one or more backend targets. A routing rule must contain a listener and at least one backend target.

Rule name *: my-app-gw-routing-rule

Priority *: 100

* Listener * **Backend targets**

Choose a backend pool to which this routing rule will send traffic. You will also need to specify a set of Backend settings that define the behavior of the routing rule.

Target type: (•) Backend pool ( ) Redirection

Backend target *: my-app-gw-backend-pool — Add new

Backend settings *: my-app-gw-backend-setting — Add new

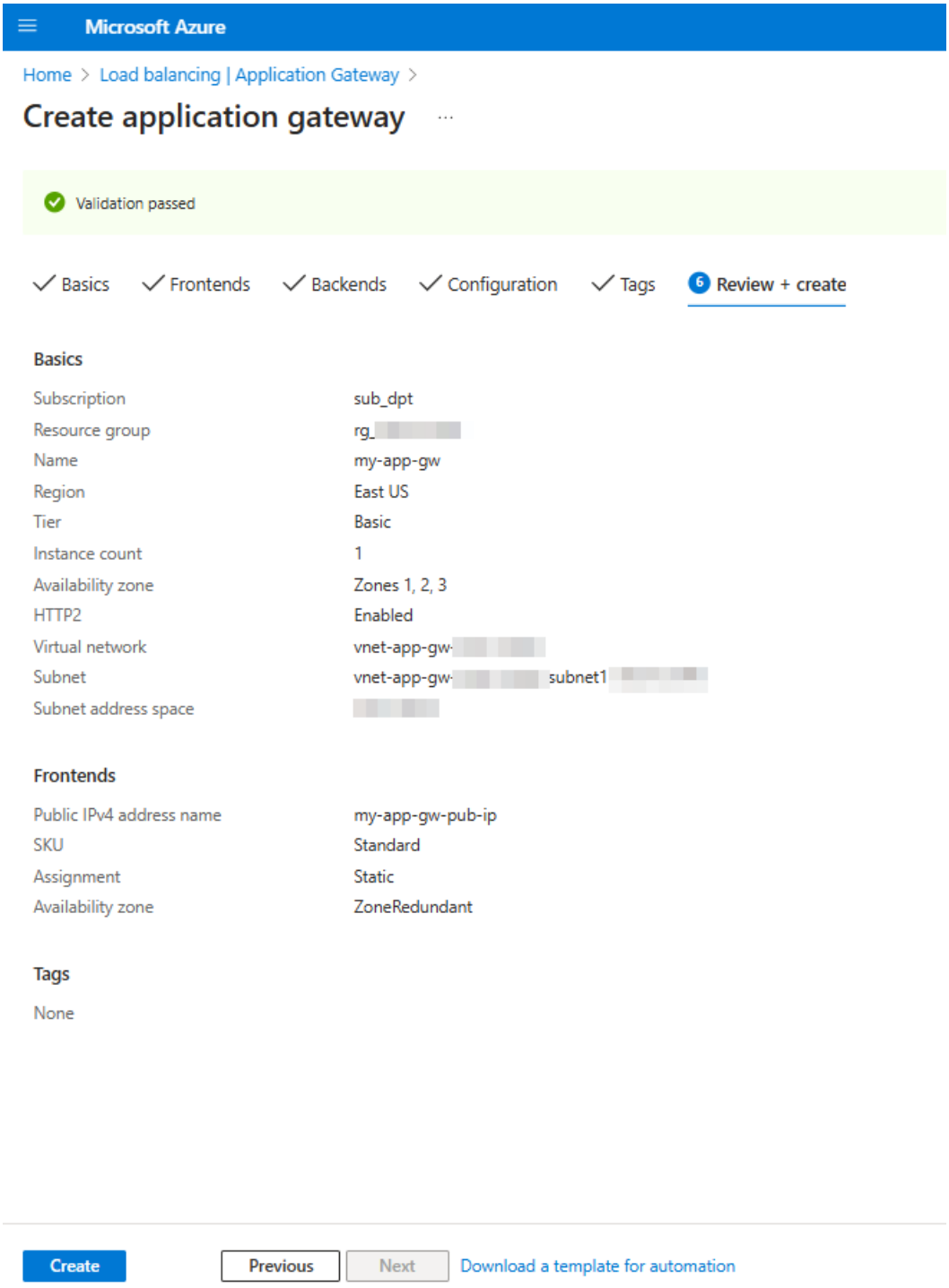
Path-based routing

You can route traffic from this rule's listener to different backend targets based on the URL path of the request. You can also apply a different set of Backend settings based on the URL path.

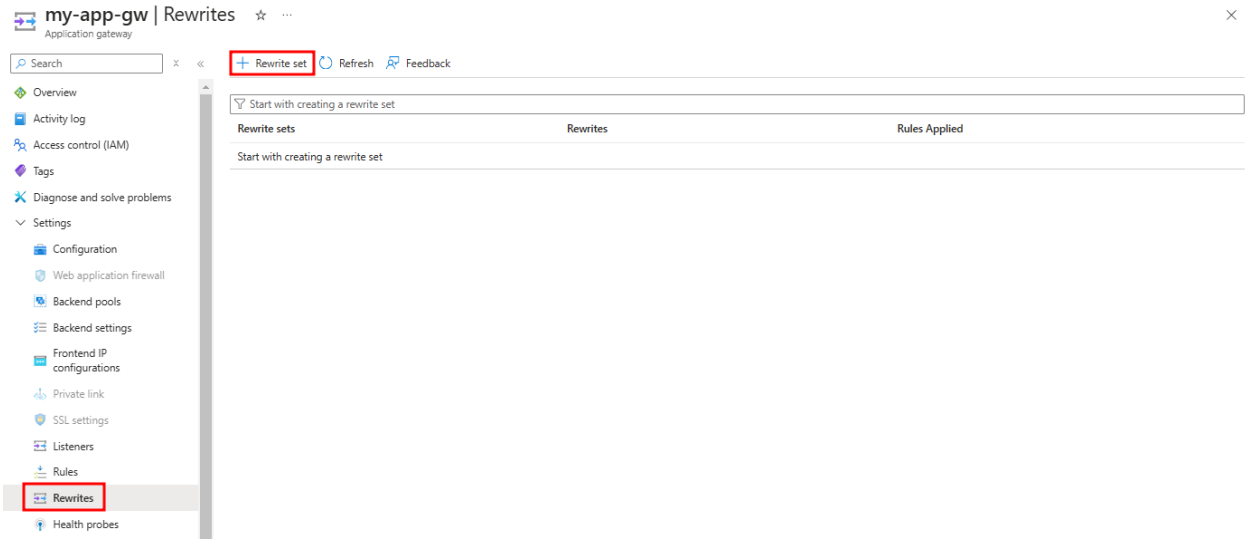
Path based rules

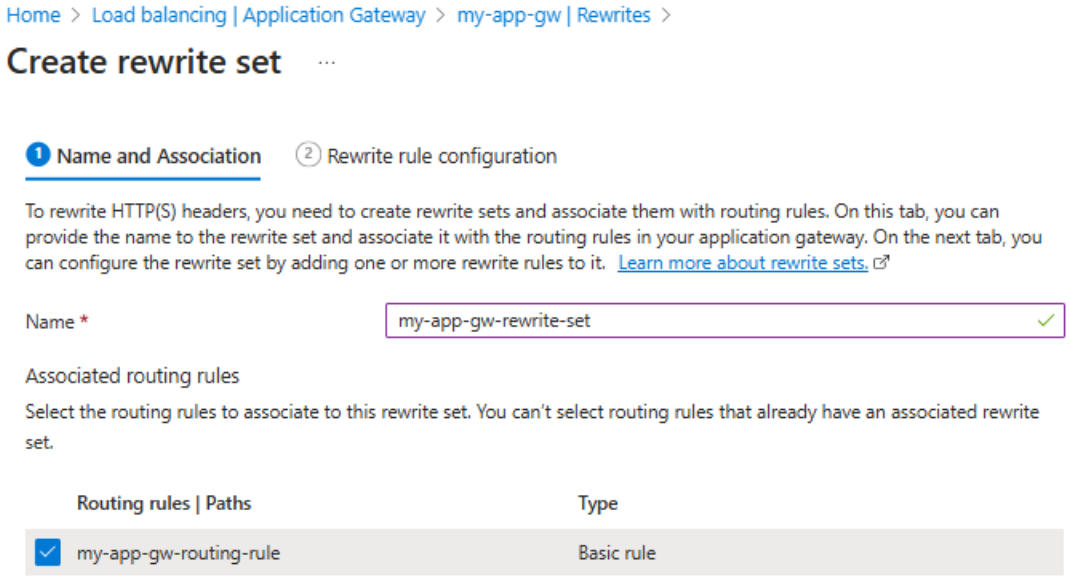
Path	Target name	Backend setting name	Backend pool
No additional targets to display			

Review the settings and click on the create button.



Wait for your Application Gateway to be deployed, then create a new Rewrite set.

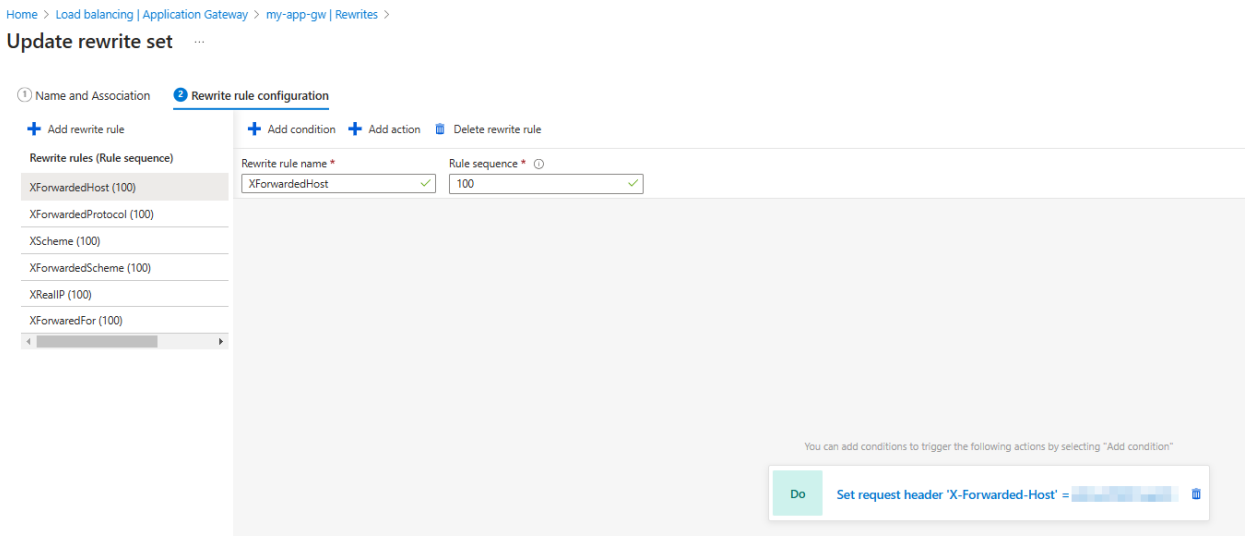




Create the following rewrite rules. For the “XForwardedHost” rule, make sure to specify the FQDN you plan to use for the Application Gateway (e.g. subdomain.domain.tld).

Rewrite rule name	Rule sequence	Rewrite type	Action type	Header name	Common header	Header value
XForwardedHost	100	Request Header	Set	Common header	X-Forwarded-Host	<your public Application Gateway FQDN>
XForwardedProtocol	100	Request Header	Set	Common header	X-Forwarded-Proto	https
XScheme	100	Request Header	Set	Custom header	X-Scheme	https
XForwardedScheme	100	Request Header	Set	Custom header	X-Forwarded-Scheme	https
XRealIP	100	Request Header	Delete	Custom header	X-Real-IP	
XForwaredFor	100	Request Header	Delete	Custom header	X-Forwarded-For	

Finally, you should get a result as below.



Create the Application Gateway DNS record

Make sure that the FQDN you plan to use for the Imaging deployment points to the Application Gateway public IP.

Resolve issues

If you encounter issues when connecting through the Application Gateway, carefully review all the procedure steps. Also confirm that the Application Gateway backend is healthy. It should return a 302 as below.