

In Azure networking, priority refers to the order in which network traffic is processed and routed by the Azure virtual network. The priority setting determines the sequence in which network security group (NSG) rules are applied to network traffic as it flows through the network.

In Azure, each NSG rule is assigned a priority value, which is a 32-bit integer. The priority value can range from -65,536 to 65,535, and a higher value indicates a higher priority. When a network packet is received, the NSG applies the rules in ascending order of priority until it finds a rule that matches the packet. The rule that matches the packet is then applied to the packet, and subsequent rules are ignored.

The default priority for NSG rules in Azure is 65,000. To ensure that specific rules are applied before or after other rules, you can adjust the priority value of the rules accordingly. For example, you might set a lower priority value for a rule that blocks traffic to a specific IP address to ensure that it is applied before a rule that allows traffic to all IP addresses.

It is important to note that priority is just one of the factors that can affect how network traffic is processed in Azure. Other factors, such as routing rules, service endpoints, and virtual network peering, can also impact network performance and security. Therefore, it is important to design and configure your Azure networking environment carefully to ensure optimal performance and security.

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The default priority for a routing rule in Azure Application Gateway is 100. Routing rules with lower priorities will be evaluated first, followed by routing rules with higher priorities. If multiple routing rules have the same priority, then the order of evaluation is not guaranteed.

When a request comes in, the Application Gateway evaluates the routing rules in priority order until it finds a matching rule. Once a matching rule is found, the corresponding backend pool or redirect configuration is applied to the request, and the request is forwarded to the specified backend server or URL.

You can modify the priority of a routing rule by updating its value in the Application Gateway configuration. It is recommended to use priority values that leave room for future changes or additions to routing rules, to avoid having to renumber all the rules in case of updates or modifications.