Azure Traffic Manager is a cloud-based traffic management service that allows you to control the distribution of user traffic to your applications running in different regions and/or data centers. It provides automatic failover, load balancing, and traffic routing capabilities that enable you to achieve high availability and optimal performance for your applications.

Traffic Manager works by monitoring the health of your endpoints and dynamically routing traffic to the most available and responsive endpoint based on the configured routing method. There are several routing methods that you can choose from:

Priority: This routing method directs all traffic to a primary endpoint unless it's unavailable, in which case traffic is directed to a secondary endpoint.

Weighted: This routing method distributes traffic across endpoints based on a user-defined weight value.

Performance: This routing method directs traffic to the endpoint with the lowest latency, which is determined by measuring the round-trip time (RTT) between the user's browser and the endpoint.

Geographic: This routing method directs traffic to the endpoint that's closest to the user, based on their geographic location.

Multi-value: This routing method allows you to specify a list of endpoints that can handle a request, and Traffic Manager returns a random endpoint from the list.

You can configure Traffic Manager using the Azure portal, Azure CLI, or Azure PowerShell. You'll need to create a Traffic Manager profile, specify the routing method, and add endpoints to the profile. Endpoints can be Azure resources (such as web apps or virtual machines), external endpoints (such as APIs or websites hosted outside Azure), or even Traffic Manager profiles in other Azure subscriptions.

With Traffic Manager, you can achieve high availability and scalability for your applications by directing user traffic to the best endpoint based on your defined routing method.

Yes, in Azure Traffic Manager, you need to use a DNS name for your Azure App Gateway endpoint. This is because Traffic Manager uses DNS-based load balancing to route traffic to your App Gateway.

When you create an endpoint in Traffic Manager for your App Gateway, you'll specify the DNS name of your App Gateway, which should be in the form of a fully qualified domain name (FQDN). The DNS name should point to the public IP address of your App Gateway.

To obtain the DNS name of your App Gateway, you can navigate to the Azure portal, select your App Gateway resource, and then select the "Overview" blade. The DNS name will be listed under the "Frontend IP Configuration" section.

Once you have the DNS name for your App Gateway, you can create an endpoint in Traffic Manager and specify the DNS name as the target for the endpoint. Traffic Manager will then use DNS resolution to dynamically distribute traffic across your App Gateway instances based on the configured routing method.

An endpoint in Azure Traffic Manager is a resource that represents a destination for incoming traffic. Endpoints can be any internet-facing resource, such as a web app, a virtual machine, or a cloud service, and are typically associated with a specific DNS name or IP address.

When you create an endpoint in Traffic Manager, you'll specify the endpoint's DNS name or IP address, along with some additional configuration options, such as the endpoint's priority, weight, and health check settings. You can also specify the protocol that Traffic Manager should use to communicate with the endpoint, such as HTTP or HTTPS.

Endpoints are organized into endpoint pools, which represent a group of endpoints that share a common routing method. For example, you might create an endpoint pool that uses the performance routing method to route traffic to the endpoint with the lowest latency.

Traffic Manager supports several routing methods, including priority, weighted, performance, geographic, and multi-value. The routing method determines how Traffic Manager distributes incoming traffic across the endpoints in the endpoint pool.

When Traffic Manager receives a request for your resource, it uses the configured routing method to determine which endpoint should handle the request. For example, if you're using the performance routing method, Traffic Manager will select the endpoint with the lowest latency as the destination for the request.

Endpoints can be added, removed, or updated dynamically in response to changes in your environment, such as changes to the availability or health of your resources. This allows Traffic Manager to provide automatic failover and high availability for your applications and services.