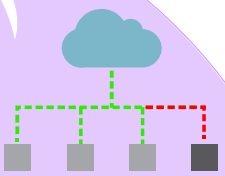
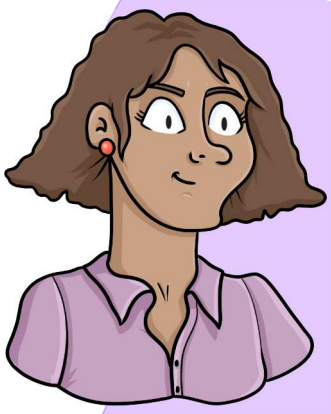
La Minute CLOUD de JULES & LÉA

Azure
Traffic Manager #1

Today we are going to talk about the **Traffic Manager** (**TM**) service.



Personally, I have never used this service.



Well you will see that it is not more complicated than the other services.

TM is a global DNS traffic **Load Balancer** (LB) service, which redirects traffic according to different routing methods that have been configured, we will talk about this a little later.

Can **TM** distribute traffic across different Azure services?

Yes, to **PaaS** services, **WebApps** or another **Traffic Manager**, but also to **FQDN**s* which means that traffic **can be distributed** to services hosted **outside of Azure**.

The traffic is distributed over what are called **endpoints**.

Moreover, **TM** provides **supervision of the integrity** of the endpoints, which makes it possible to switch automatically in the event of failure of one of them.

How is supervision carried out?

Through **probes** that check the protocol, port and path of the application.

You can also specify a status code returned by the application, and of course configure the detection interval between 2 checks, as well as the number of failures you allow before the switch.

next

FQDN* : Fully Qualified Domain Name

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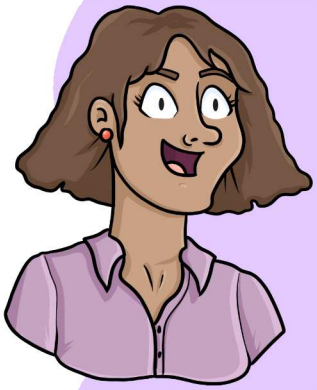
Azure Traffic Manager #2

Awesome ! You were telling us about the routing methods, can you detail?

Of course!

TM offers **6 routing methods** that will depend on what you want to do, so you have a choice.



Oh yes effectively!

We can start with the **Priority** mode, in which we define an order of priority between your different endpoints.

Then there is the **Weighted** mode. It is interesting when you want to distribute the traffic between several endpoints according to their weights, which is useful when you want a uniform distribution between them.

Let's continue with the **Performance** mode used when endpoints are distributed in different regions. The idea is to send users to the endpoint with the lowest latency.

Then comes the **Geographical** mode, recommended to distribute the traffic according to the origin of the requests of the users, for legal reasons for example.

Next, **Multi-value** mode which distributes traffic to IPv4/IPv6 addresses.

And finally the **Subnet** mode, which redirects a range of public IP addresses of end users to a specific endpoint.
We can thus offer specific content for users connecting from a head office or via a VPN connection and all this using the same URL as other users.

Really smart these different routing modes.

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Azure Traffic Manager #3

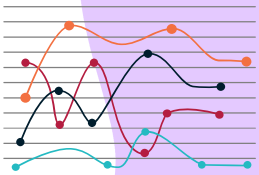
In addition, Traffic Manager offers 2 great features!

I feel that I will like it!

Traffic View which displays a map of the world on which we see where the users' requests come from, but also and above all the latency time represented by colors.

I really like the idea.

This highlights a **region with high latency**, and potentially deploys a new endpoint in that region.



Exactly, you got it!

The other cool feature is **Real User Measurements**.

It is used to evaluate network latency metrics from Azure regions.

How does it work?

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Microsoft provides a **JavaScript** (JS) code to embed in web pages. Each time the pages are visited, the JS code queries TM to perform network latency measurements.

These metrics are then used by TM over time to refine how it distributes to endpoints.

The 2 features are billed, but they can greatly improve traffic distribution.

It's great, and it's the end users who benefit!

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Thank you!

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See you soon!

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