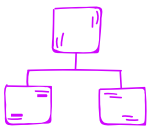
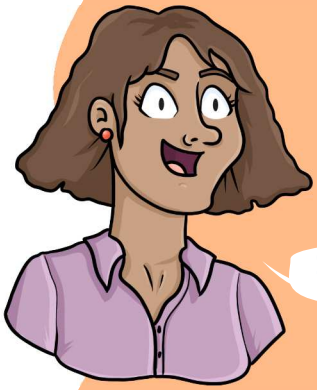
La Minute CLOUD de JULES & LÉA

Azure Application Gateway #1

Thomas, I often hear about Azure **Application Gateway (AAG)**, could you tell us more about this Azure service?





Obviously.

AAG is a load balancer which acts on the application layer (**L7**) of the **OSI model**.

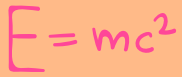
It allows you to redirect (route) the traffic to backend services.

So it is Internet facing?

Yes but it is not mandatory. It can be **exposed on the Internet** or just run **privately** via VNETs.

And is it complicated to implement?

It is very simple.

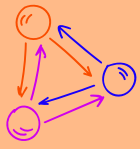


The 1st thing is to configure a **Listener**, which is the entry point of the AAG. This can be a public IP, or a private IP, and we define the protocol, favoring HTTPS.

Then you configure the **HTTP Settings.** This is where you fulfill the domain and the **SSL/TLS certificate**. AAG supports **multi-site** option, which is really good.

Next, we go to the configuration of the **Backend pool**, that is to say the services on which you will route the traffic. This can be VMs, WebApps and even services hosted outside of Azure.

Finally we create a **Rule** that will associate all the previous components, the Listener, the HTTP Settings and the Backend pool.



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Azure Application Gateway #2

This reminds me of how **Azure Front Door** (AFD) works, that we have already seen!

Exactly !

One of the differences between AAG and AFD is that **AFD** is a **global service**, while **AAG** is a **regional service**, that is deployed in a specific region.

AAG allows you to either route traffic to a specific port, like an ordinary load balancer might, or route traffic based on attributes like a URI path.

For example if your URL contains **/images/***, you can route the traffic to a specific backend pool that stores your images.

Nice !

AAG is available in **2 versions**. v2 offers more features than v1, but the price is higher. The choice will depend on the use cases of each client.

Can you list some features available on AAG in v2?

Of course !

Autoscaling mode is beneficial in applications that see variance in application traffic, zone redundancy, integration with KV, AKS ingress controller, faster deployment and update time, header rewrite, or custom rules for the WAF.

Interesting features, it seems really cool !

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Azure Application Gateway #3

Concerning the security part, we saw that it managed the **HTTPS protocol** and that we could associate an **SSL/TLS certificate** that can be stored in a KV, with AAG v2.

The built-in WAF is great and for customers who want to, they will be able to create their own WAF rules.

This shows once again that safety is a priority !

Yes, it is very important at Microsoft.

In addition to offering high availability mechanisms such as zone redundancy, or autoscaling, AAG also offers **probes** to check the **availability of backend services**, and remove from the pool, those who are no longer available to avoid sending traffic to them.

It's really cool and helps reduce client-side service disruptions.

AMAZING

If you encounter any issue during the installation, there is a Connection troubleshoot tool which can help identify the origin of the problem between the AAG and the backend services.

It can be very useful sometimes to have a tool like that !

And in addition, AAG is natively integrated with other Azure services such as **Azure Monitor** or **Application Insight**.

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Thank you!

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See you soon!

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