



Do you want to talk about containers today?

Oh yes with pleasure!

Well I present you the **Azure Container Apps (ACA)** service.

It is the youngest one, that allows you to deploy containers like **Azure Kubernetes Service (AKS)** or **Container Instances** for example.

I feel like we're going to enjoy.

As usual, right?!

Obviously !

ACA is a managed service to create and deliver containers faster. In addition, you don't need to have strong skills on Kubernetes.

If I understood this does not require expertise on system and network topics like with **AKS**?

Exactly.

ACA offers **automatic scaling** to absorb traffic, which will be distributed between your different backends. And you can configure it very easily.

So you don't need to manage **scalability**, that's cool



Yes, it's natively managed by **ACA**.

In addition, it supports **different versions of applications**. This is useful when you want 2 different versions of your application for testing purposes.



It's really cool !!

next



$E=mc^2$



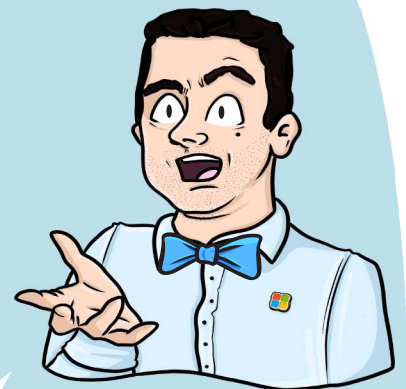
And how do you get started with ACA ?

Very simple as always :

All you have to do is to create an environment, which is simply a **logical isolation**, in which you will deploy your containers.

Then you deploy an image of your application, which is stored in a registry like Docker Hub, or even better in **Azure Container Registry (ACR)**.

And voila !



But you did not specify either Runtime or Framework of your application?!

Indeed, this is one of the differences with AKS, it is not required with ACA !

So I guess it's just based on the **configuration defined in your image**?!



You're very smart!

Like when you deploy a container locally, in the end it's super simple.

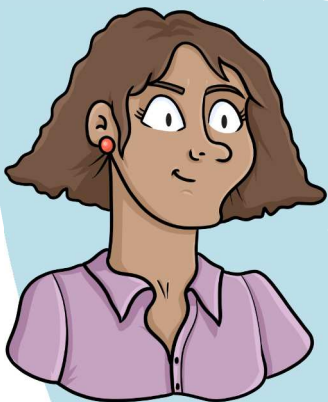
Exactly

Microsoft recommends using ACA for different scenarios like **running microservices, hosting APIs**, for example.

It's great, because you can deploy an application very easily with just a few clicks.

Absolutely.

Microsoft wanted to **simplify** the use of the service as much as possible following the feedbacks received from customers with AKS.





Which **features** are available on ACA ?

Many as you can imagine!

We previously talked about its ability to manage multiple versions of the same application.

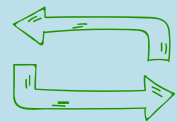
You can do what is called **canary deployment**, it's a **gradual deployment** to a new version of your application.

It is indeed a very practical mechanism to test a new version by redirecting some of your users to it.

Absolutely.

And you can also consider the **Blue/Green deployment**, which allows you to switch all traffic to the new version of your application.

I really like these 2 approaches, because they allow you to quickly test a new version, and in case of problems, the **rollback** is super **fast** and **simple**.



Completely.

Another cool feature is the native **Dapr** integration. Do you know it?

Yes, it's a suite of APIs that makes it easy to create microservices.

I see you are well informed.

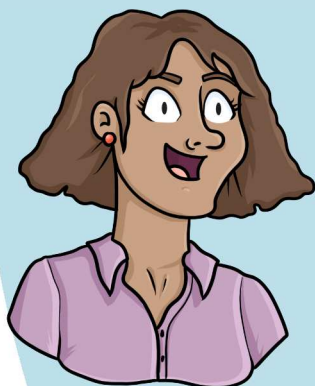
One of my colleagues told me about it once, and it seems to be really good.

Effectively. Dapr offers various ready-to-use APIs, such as **managing states, secrets, Pub/Sub concepts**, ...

You will find all the information on **Dapr.io**



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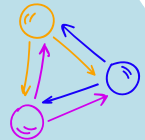




And in terms of security ?

There are many things.

You will be able to protect your microservices or APIs with an **authentication mechanism**.



Natively, ACA offers **identity federation** which allows you to connect with your Microsoft account, but also with other types of accounts.

Like Facebook, Google, Twitter and others ?

Exactly!

However, currently the integration with **Azure Key Vault** is not yet available, but you can still add secrets in ACA, or use the **dedicated Dapr's API**.



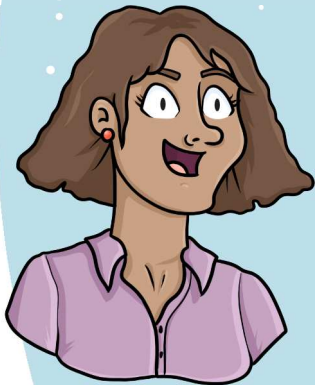
Got it!

And I guess, that I am able or not to expose my service to Internet?

Obviously !

You can also set up a custom domain name, which is always very handy.

AMAZING



Another cool thing is that you can create a connection with other Azure services, with what is called **Service Connector**.

I like this feature!



You can connect to different DBs, like **Cosmos DB, SQL DB, Database for MySQL or for PostgreSQL**, but also to a **Storage Account** or **Redis** for example.

Awesome !!

To sum up, ACA is a service to deploy containers, **ready-to-use**, simple with the possibility to connect with other Azure services depending of our needs.

In short, it is great!

End

Thank you!



If you want to continue **learning** in a fun way about the **Azure ecosystem**, and not miss any of our illustrations ...

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See you soon!

