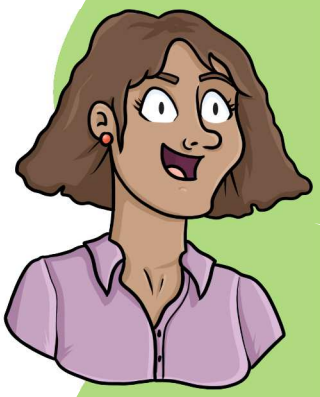
La Minute CLOUD de JULES & LÉA

Azure
Azure Migrate #1

Today we are going to talk about the **Azure Migrate** service.

I guess it is used for migration projects?!



Effectively

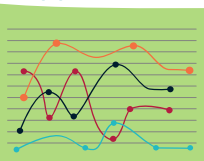
Azure Migrate allows you to perform analysis of VMware and Hyper-V VMs or physical servers to migrate to Azure.

Oh that's cool !

We talk also about **Azure Migrate Hub** that includes different tools for a migration.

This Hub helps to migrate **VMs**, but also **databases** (DB), **web applications**, **virtual desktop environments** and even **large amounts of data**.

This is great news, and several scenarios are supported?!



Absolutely. And we can obviously use third-party products to support a project of migration.

Coming back to Azure Migrate, you can **assess** to check if your infrastructure and application assets are **ready** for a migration **to Azure**.

You can **estimate** the VM size or DB configuration you'll need.

Estimate the costs of resources that will run on Azure.

And the last but not the least, **identify the dependencies** between your VMs and other services.

Really interesting.

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And concretely, how does it work if I want to migrate my VMs from **VMware** or **Hyper-V**?

I knew you were going to ask me the question, and as often my answer is the same...

Are you going to tell us again that it's very simple?!

Absolutly!

Either you read my mind or you are used to using Azure services ;)

Yes it is true that it is rarely complicated.

Well if I understood correctly, you want to migrate existing VMs!

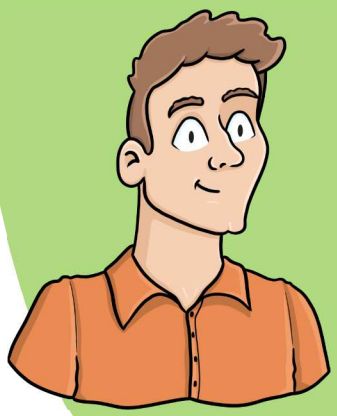
So you have to start by creating an Azure Migrate project on the Azure portal.

This project will store all information like reports and others relevant to your journey to the Cloud project.

$E = mc^2$

It is true that for now it's not complicated.

But you will see that other steps will be easy too.



For your use case, the product team offers **2 solutions**:

The 1st one, the use of an **OVA** template for VMware or **VHD** for Hyper-V, that you can install on your private environment.

The 2nd one, install an **appliance** via a PowerShell script, on physical servers, or if you don't want to use the 1st option.

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I guess the appliance needs to **communicate with Azure**?

Of course!

Once the appliance is installed on your private infrastructure, you **do not need to install additional agent**.

And important things, there is **no impact** on the performance of you infra.

But at Grow-Una we have internal security rules that require having an antivirus.

Well, you can install it without any issue.

The product team has thought of everything.

Which data is collected for the analysis?

The data collected is varied, such as **VM configuration**, **performance metadata**, **installed applications**, **dependencies** with other services, etc.

And where is this data stored?

Excellent question.

Data is stored in **Azure Cosmos DB** and **Azure Log Analytics**.

And of course, **data is encrypted** in transit and at rest.

You just anticipated my question.

I know, you don't have any secret for me ;)

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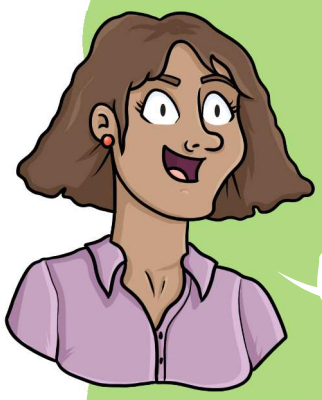
Azure Migrate #4

I didn't mention it but,

the Azure Migrate Hub can also be used to **assess and migrate** VMs installed **on other cloud providers**.



Are you thinking in particular of AWS and GCP?

Yes for example.

It's great for someone who wants to consolidate everything in Azure.

Azure Migrate is obviously **free**, and it can be paired with third-party solutions for the evaluation or migration phase.

In addition, in the **Azure Migrate Hub**, you find the tools needed to perform a migration with **Azure Migrate** and **Data Migration Assistant** for the **evaluation phase**.

Or, **Migration and Modernization**, **Azure Database Migration Service** and **Movere** for the **migration phase**.

The **web app migration assistant tool** for apps.

And you even have the possibility to migrate large amounts of data offline with Azure Data Box.

What you presented to us today is a fantastic suite of tools for migrating our services to Azure, by **offering tools for each step of the migration**.

End

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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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If you like our work, please share it ;o)

See you soon!

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