

Live Demo: InterSystems API Manager From Basics to Plugins

Attila Toth | InterSystems



Agenda



- 1 What is an (InterSystems) API Manager?**
- 2 How is that good for me?**
- 3 Terminology Introduction**
- 4 IAM Basics Demo**
- 5 Coffee Break**
- 6 IAM Plugins Appetizer**



Agenda #0: Confession

Reminder nr. 1.:

This is not a demo from an API Manager expert

(but an InterSystems expert, who found IAM useful)

Reminder nr. 2.:

Whatever you see in the next ~ 2 hours, please remember: you should never ever tell about this to my dog!!!



What is an (InterSystems) API Manager?

In a really simplified way:

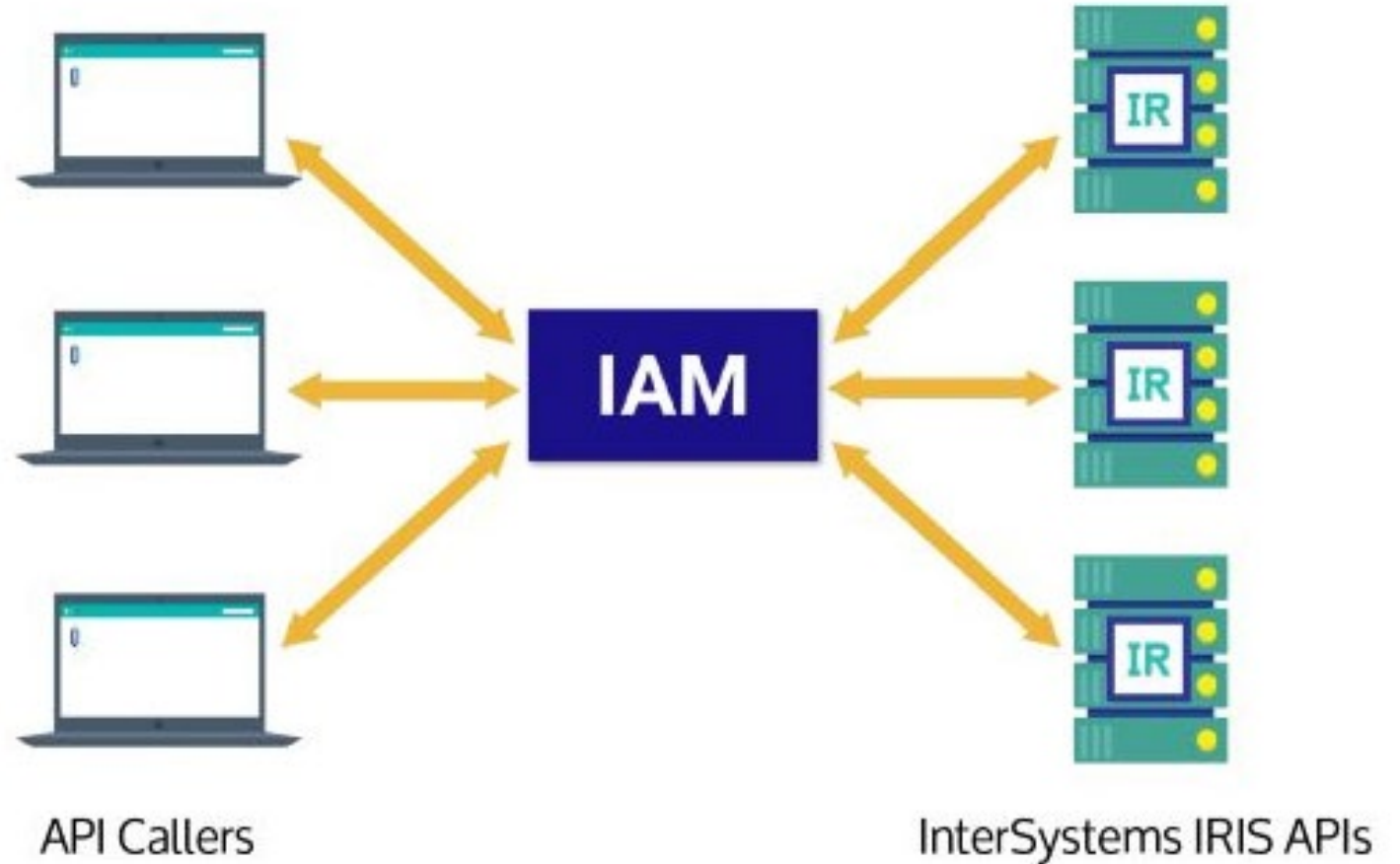
A very smart additional web server in front of your APIs.

From a functional point of view:

A gateway, through which you can publish your APIs, manage the access to them (e.g.: monitor & control traffic, protect, scale APIs, etc.).

From a technical point of view:

An industry-leading add-on to your IRIS-based “API Architecture” powered by Kong Gateway (built on top of Nginx).



How is that good for me?



- What is an API?
 - APIs are the glue, that connect components in a service-based architecture (from SOA to Microservices).
- OK, that's nothing new... what has changed?
 - APIs more and more become not just an interface, but a software design principle, an architectural pattern and a business model.
- Conclusion?
 - With the growing number of independent APIs in such an architecture, the management of your APIs (in terms of publishing, orchestrating, monitoring, analyzing) became a task on its own. → **This what an API Manager is built for!**

Terminology



(Upstream) Target:

Alternative endpoints of the same backend service.

Upstream:

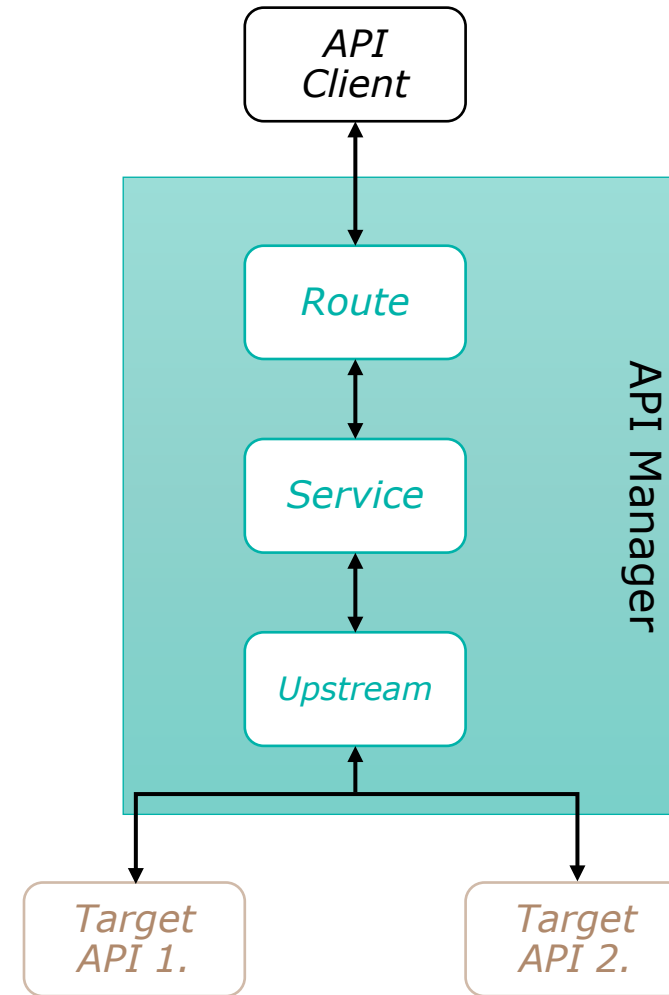
Virtual backend service, which can actually group multiple physical endpoints of the same service together for providing load balancing, HA.

Service:

Abstraction of a backend service, to which additional configuration object can be added (like plugins, ...)

Route:

A path to a service.



IAM Basics Demo

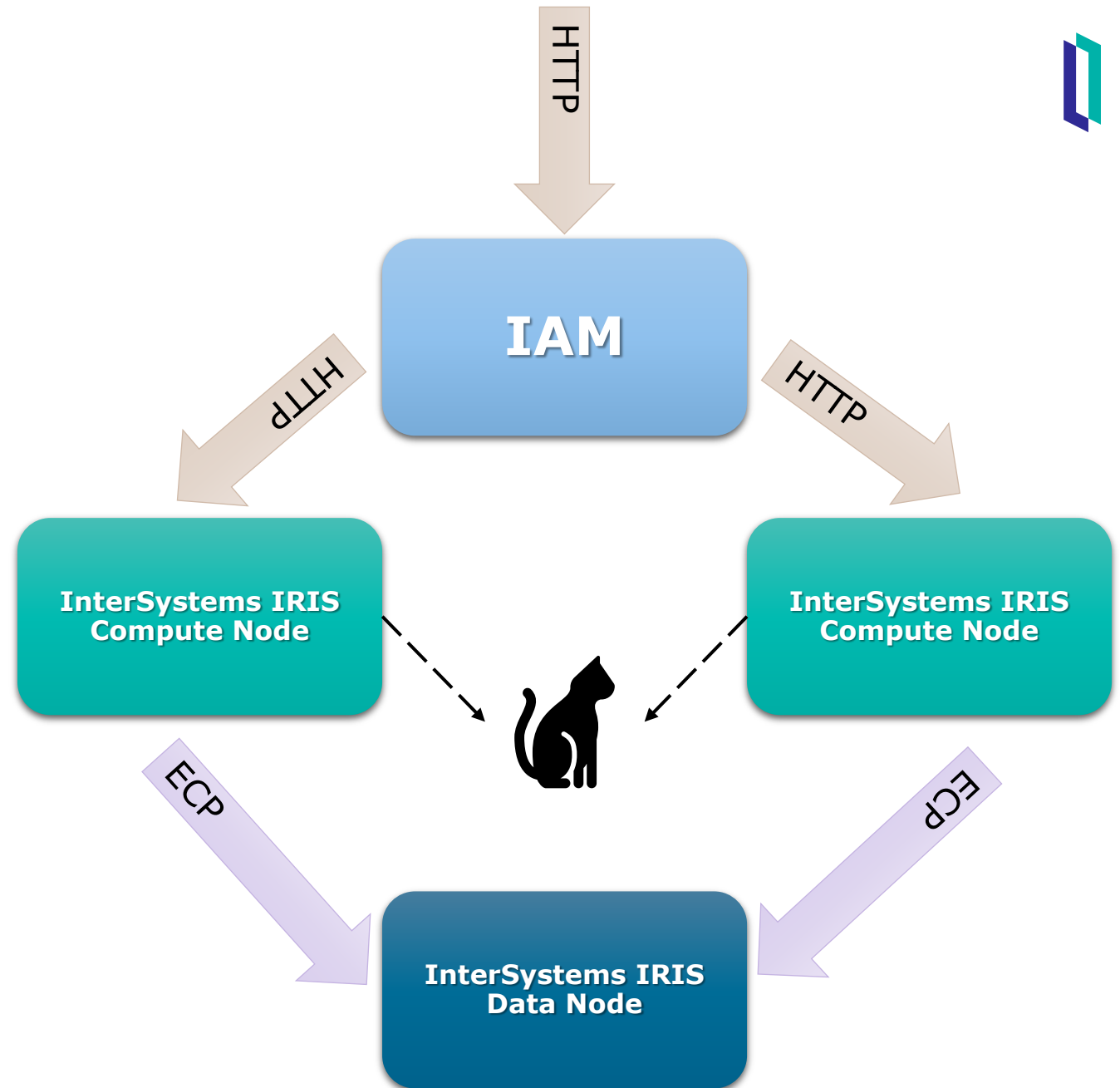
Can be tested with a simple HTTP GET request from a browser:

<http://partnertag.germanywestcentral.cloudapp.azure.com:8000/iam-demo/fact>

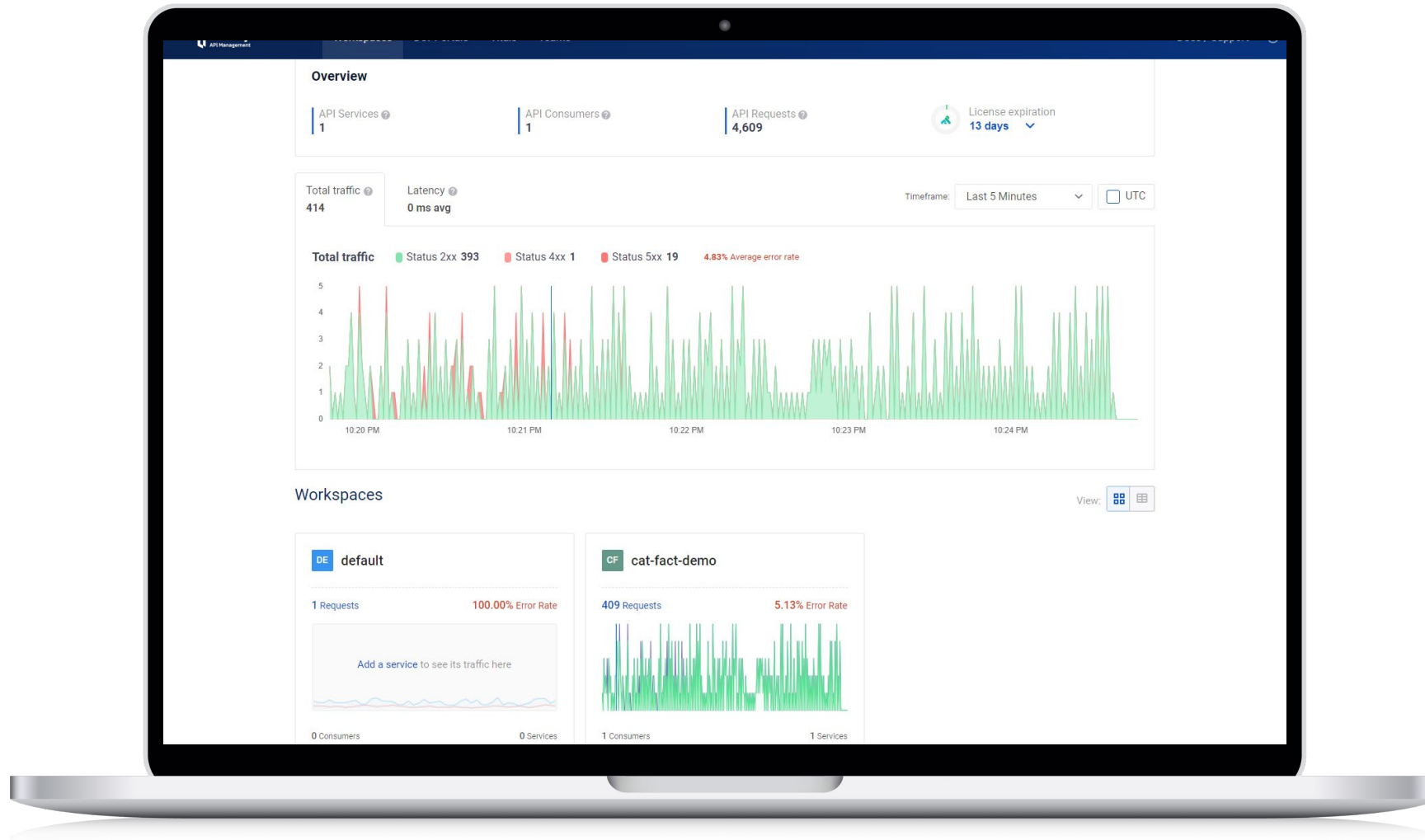
Relies on a simple, container-based configuration of two compute nodes and a database node in an ECP cluster.

Utilizes a free-of-charge sample API from:

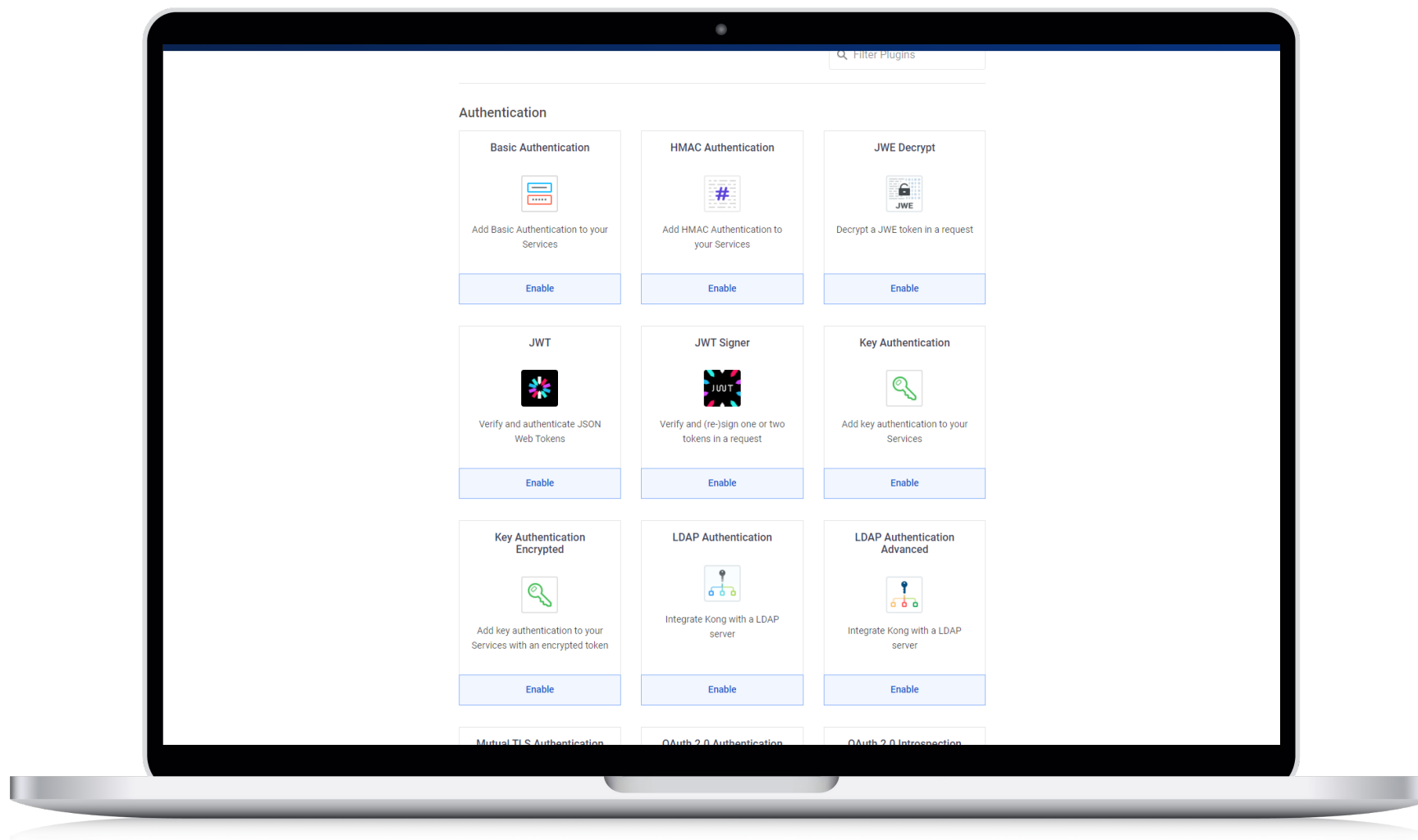
<https://catfact.ninja/fact>



IAM Basics Demo



IAM Plugins Appetizer



Vielen Dank

