What is API?

* An API (or “Application Programming Interface”) is a software intermediary for an application or service that enables other applications or services to send them requests and receive responses to those requests.
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It is a link between applications or services. It is a way of communication between application or services. They allow different systems to talk to each other.

Example:

A waiter in a restaurant is an api that takes order from customer (request) and pass it to chef and later chef sends required food to customer (respond). So it connects services or client side and server side

What is Digital Transformation?

Integration of digital technology into all areas of business, changing way of operation

**API is the key to Digital Transformation**

Example:

Payment as a service (make separate payment api)

AI as a service (AI api)

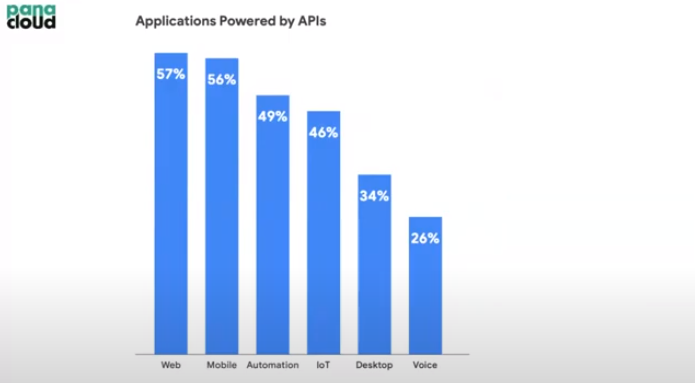
APIs used to access separate systems and provide necessary connectivity

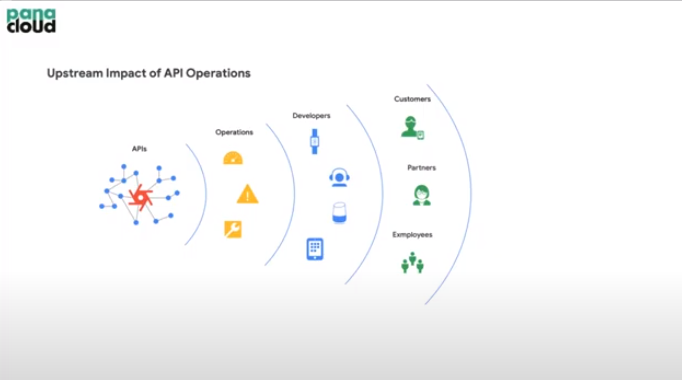


Every physical and digital asset will become API. Every single thing will become API, sofa ,car brakes everything



Monetizing apis are our aim







API as a Product:

API is now become a product. It can be sell. One problem associated with it is market to sell API. But API should be bit complex so that companies can buy from you instead of building by themselves which save their time

Example:

Stripe API for payment method

Google map API used by foodpanda, uber, careem and other companies

Interests in API:

Growth of cloud computing which has led to the need for API integration

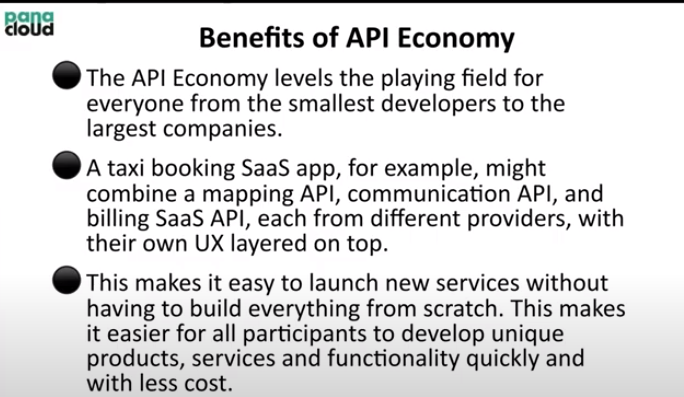
What is the API Economy?

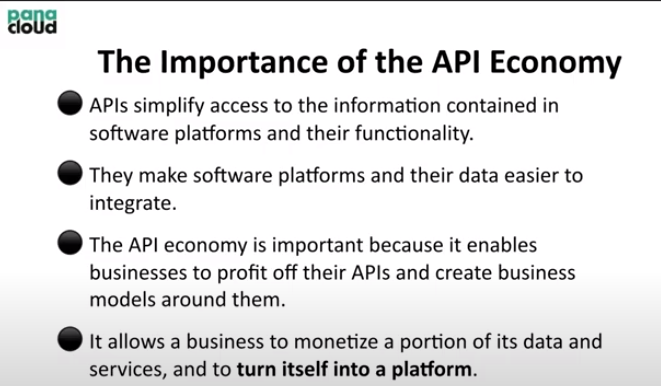
APIs has lead to SaaS world which results in API Economy. Developers creates API and SaaS can be build by combining different APIs and developers can earn money by monetizing those APIs

The exchange of these APIs and the systems to manage them is, in a nutshell, the API economy

In api economy, developers charge each others for the APIs build by them

The application developers who uses all these APIs bills the end-customers for the service. The exchange of values is what makes an API economy



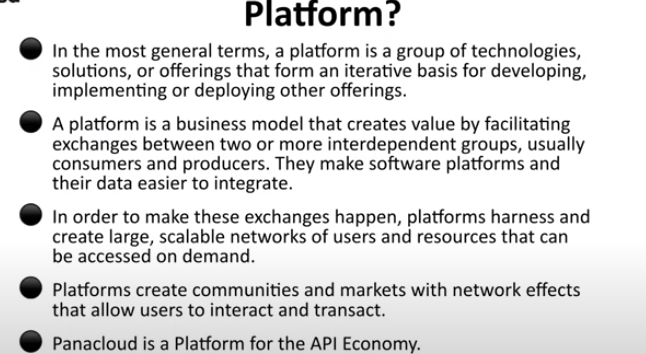


“The API economy is an enabler for turning a business or organization into a platform” – Gartner



What is Platform?

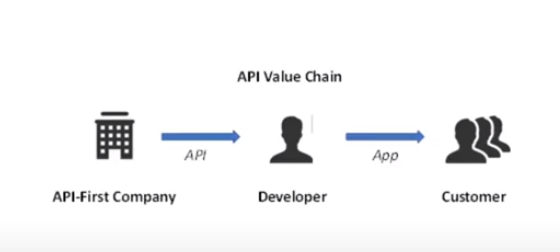
A platform is a group of technologies, solutions, or offereings that form an iterative basis for developing, implementing or deploying other offerings



Anything that helps to develop their business in top of you is platform

API value Chain:

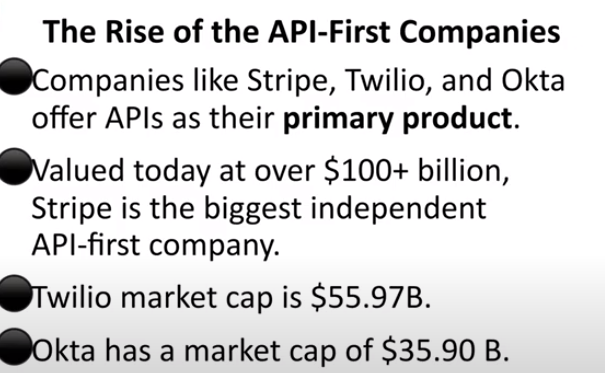
API-first company -> Developer -> Customer



API-First Approach or API-First Company:

The idea is API-as-a-product. It allows oraganizations to build APIS that serve all applications and applications can be developed for all platforms and operating systems.

The same API can be used for mobile, web and chatbox



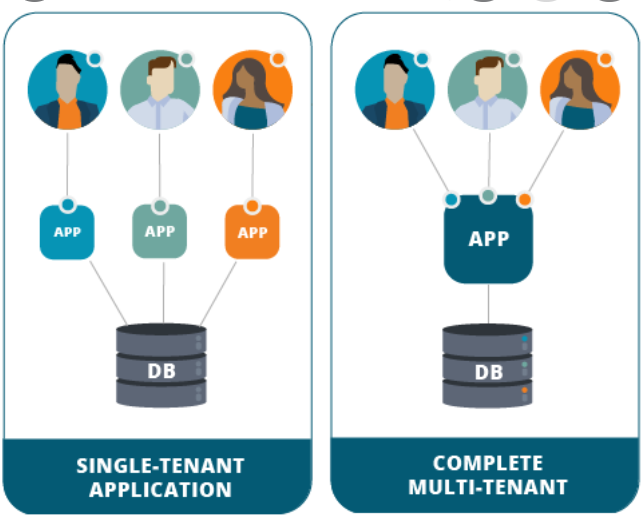


APIs will be serverless and multitenant.

What is multitenant?

When many people are using same resources. In this, one server serves many users

Earlier one for one person



What is serverless (cloud 2.0)?

It does not means no server. It means server is on cloud and charger for only time user using it

Thus APIs should be or will be serverless and multitenant

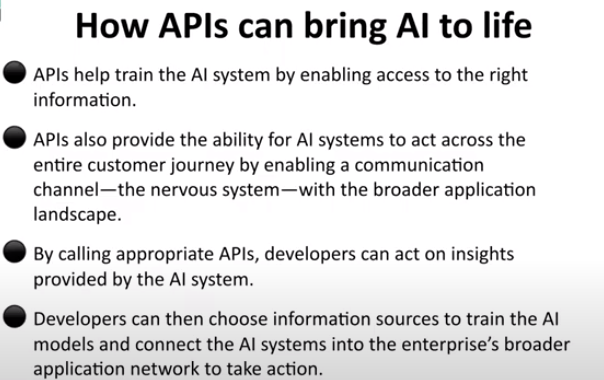
Link Between APIs and AI:

Internal:

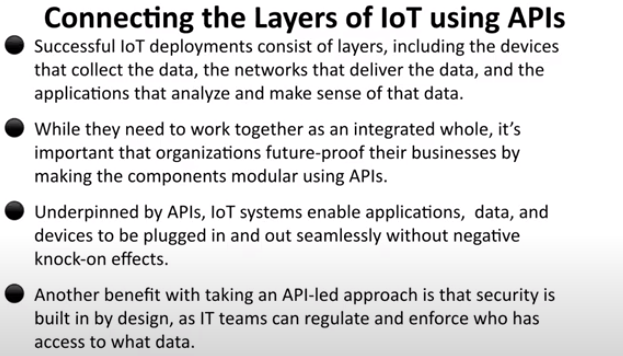
We know that digitization create lots of data and API leverage AI to make use of that data

External:

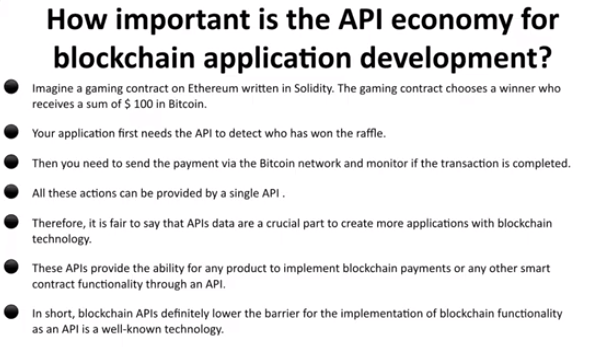
AI will manage APIs

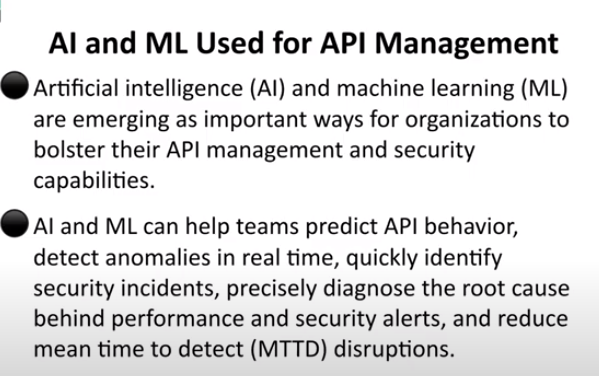


Link Between IoT and API:



Link Between API and BlockChain:





Standards for API Definition:

1. REST based OpenAPI

2. GraphQl

