

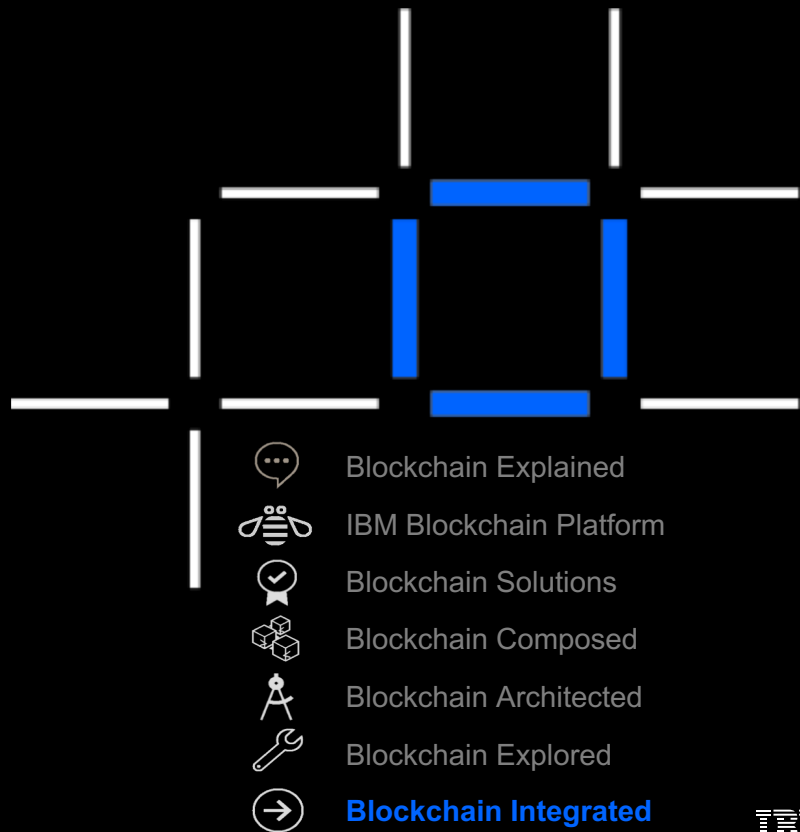
Blockchain Integrated

An Introduction to Blockchain Integration

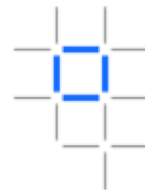
Jin VanStee

Blockchain and Transformation Leader

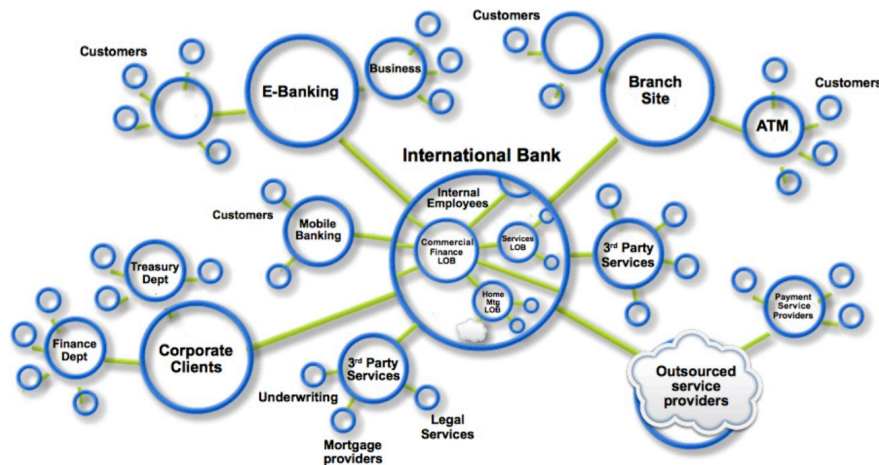
NA Z Tech Sales



Integration should start simple



- Distributed Ledger Technology (DLT)
 - Gives us the opportunity to re-architect entire industries
- Keep It Simple
 - Radical changes are coming
 - But first we have to integrate with DLT and build an ecosystem
- Less Data Movement is more secure:
 - By accessing data directly we eliminate potential security risks of moving data.
 - Standardized RESTful API access is what developers want



The API Economy

A new channel to:

Increase speed and agility

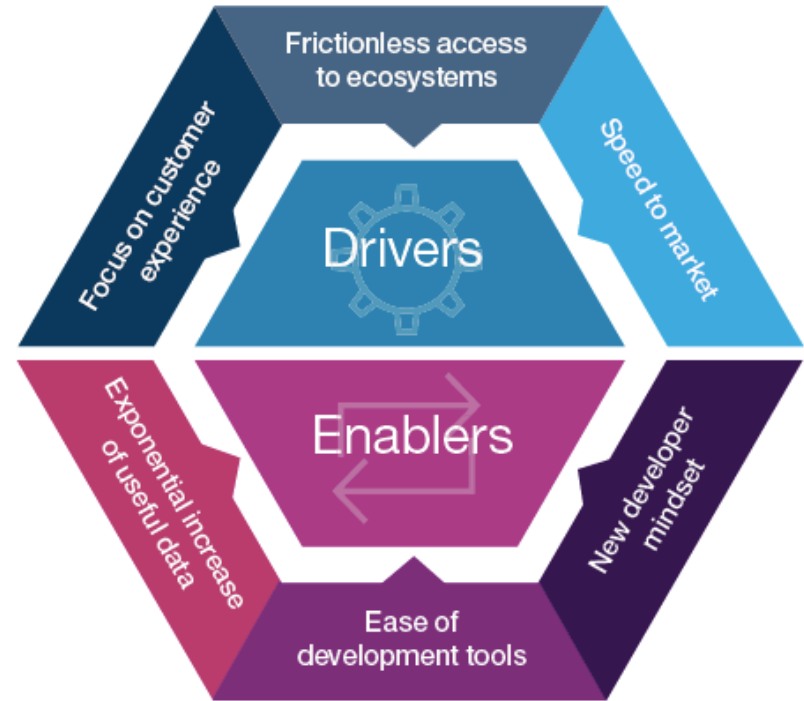
Reach clients & partners

Enable new businesses models



Figure 2

API drivers and enablers



Source: IBM Institute for Business Value analysis.

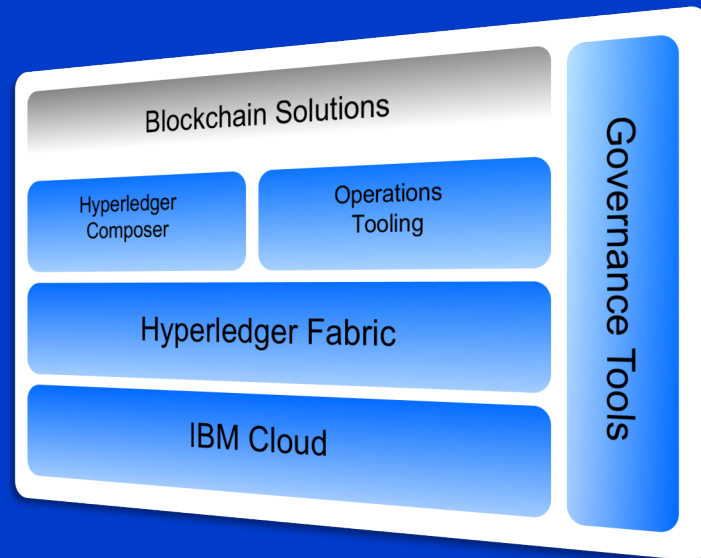
IBM Blockchain Platform

A new platform to:

Accelerate the development, governance,
and operation of a multi-institution
business network

Unparalleled security and transparency

Enable new businesses models



Pattern: IBM API Connect + IBM Blockchain Platform

IBM Blockchain Platform

Exposes Hyperledger Composer REST APIs from the defined "Smart Contract" or business rules in the blockchain

What if the Smart Contract exposes a new version of those APIs? How do I control which blockchain applications are using which version of the APIs?

How do I prevent a rogue application from flooding the blockchain with transactions and queries?

How do I provide analytics on which blockchain APIs are being invoked by which applications?

How do I protect against malicious payloads in APIs?

IBM API Connect

...manages these APIs, possibly with different owners, workflow approvals, portals, etc.

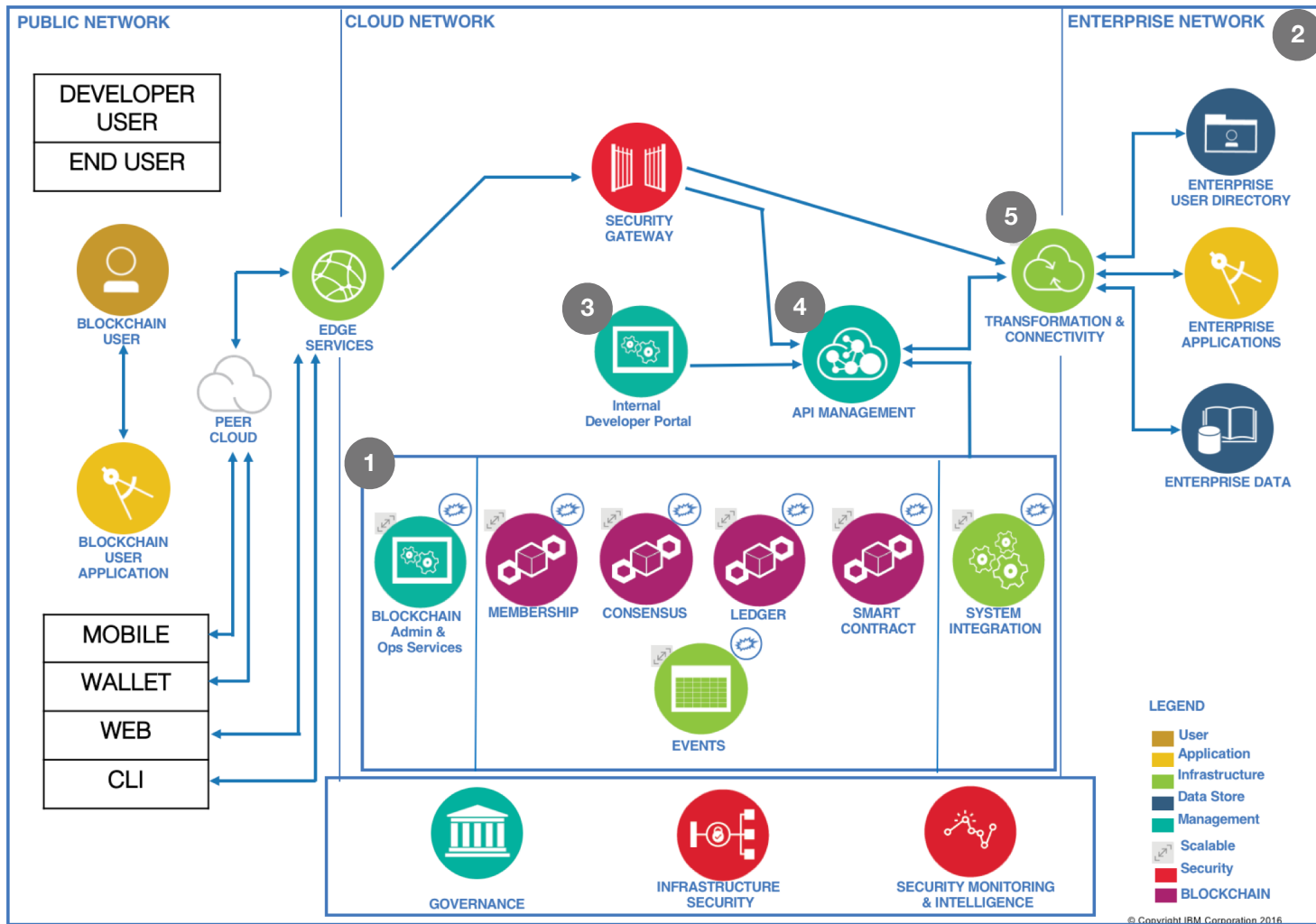
... manages the API product subscriptions lifecycle

... enforces API traffic throttling with API subscription plans

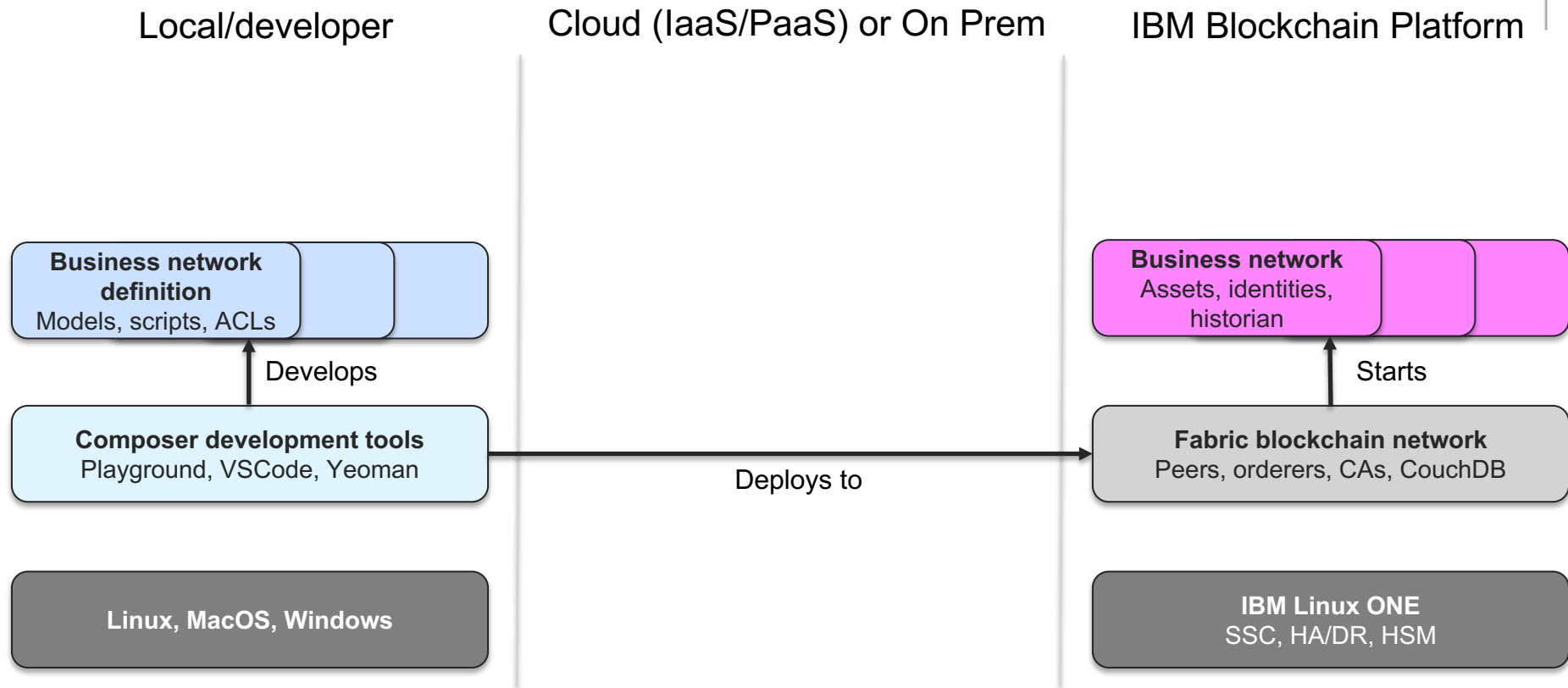
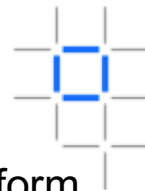
... provides customizable analytics dashboards to track API traffic and the applications consuming those APIs.

... Enforces threat protection provided by the API Gateway

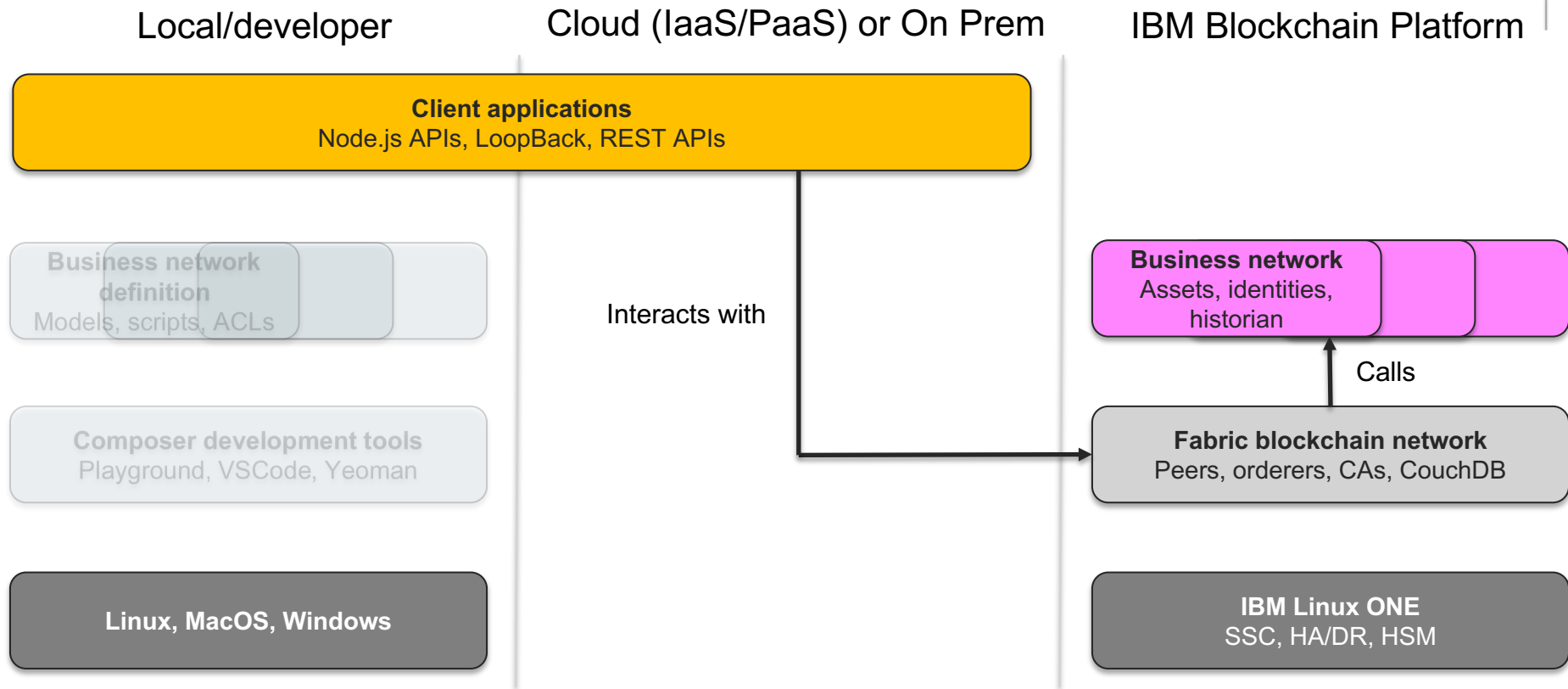
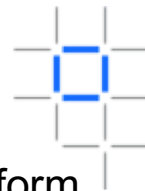
Topology



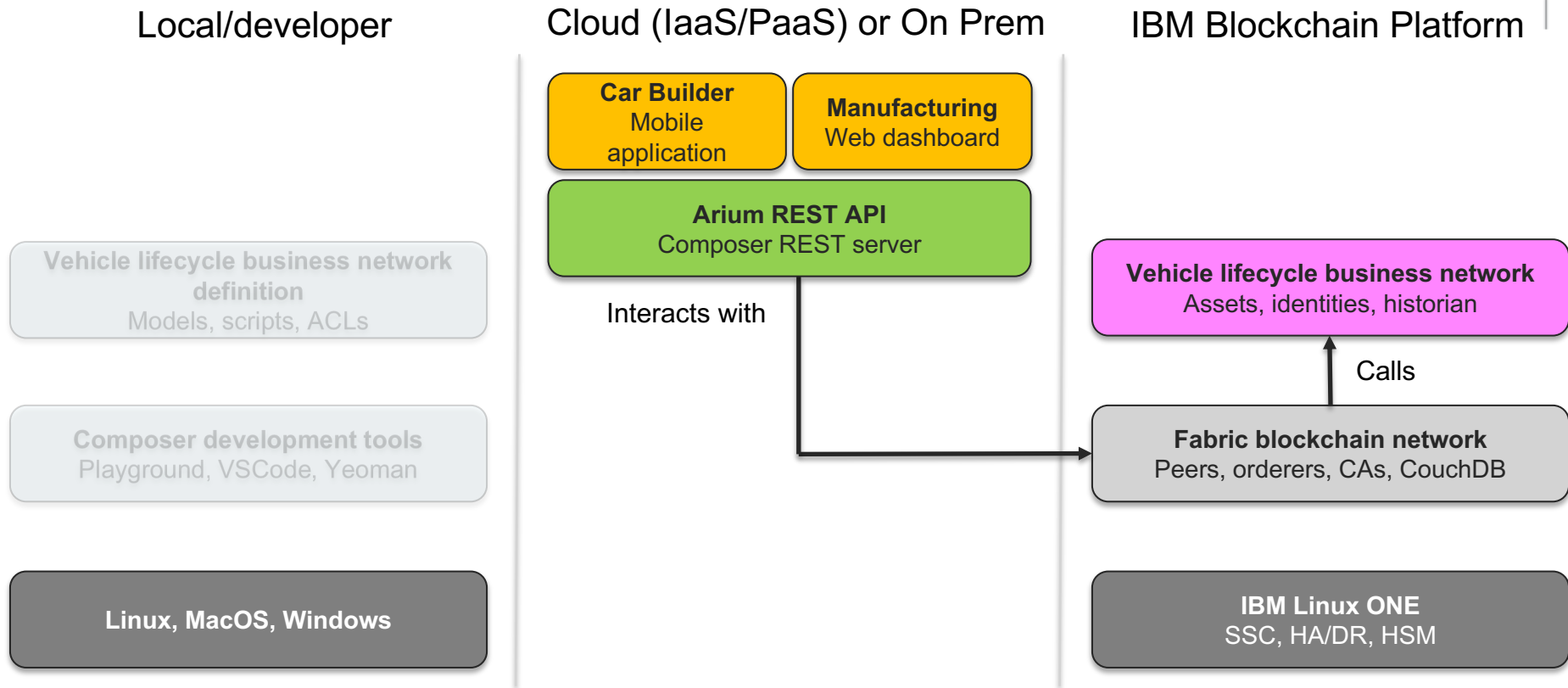
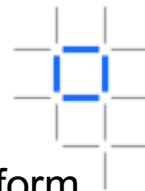
IBM Blockchain Platform Enterprise Plan (Deployment)



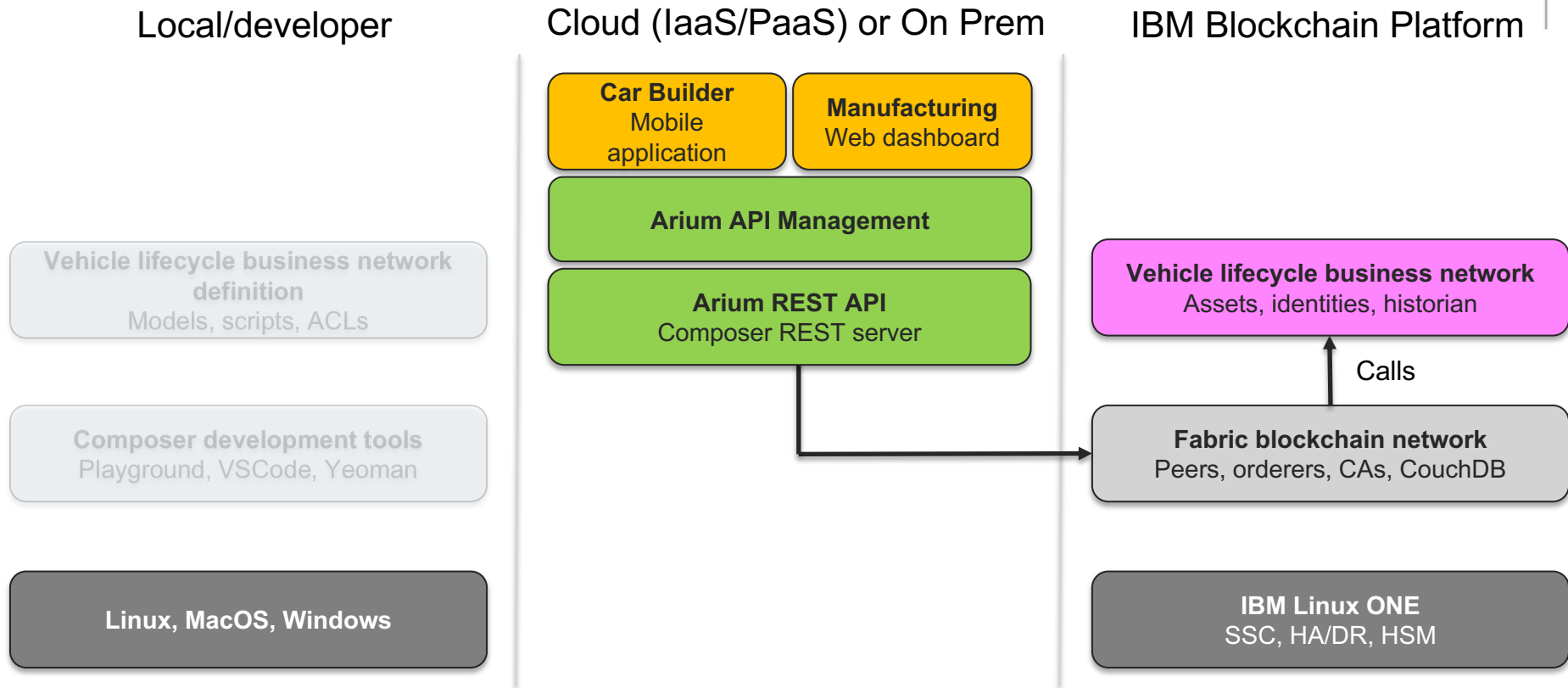
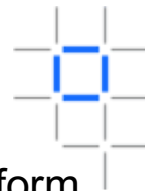
IBM Blockchain Platform Enterprise Plan (Runtime)



IBM Blockchain Platform Enterprise Plan (Arium)



IBM Blockchain Platform Enterprise Plan (Arium)




Thank you

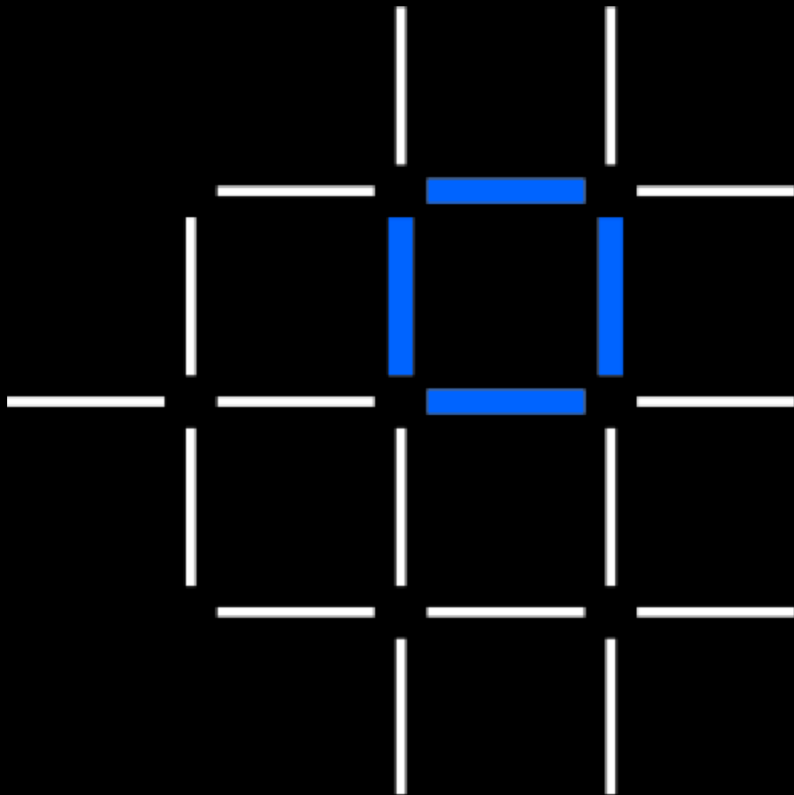
Jin VanStee

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