



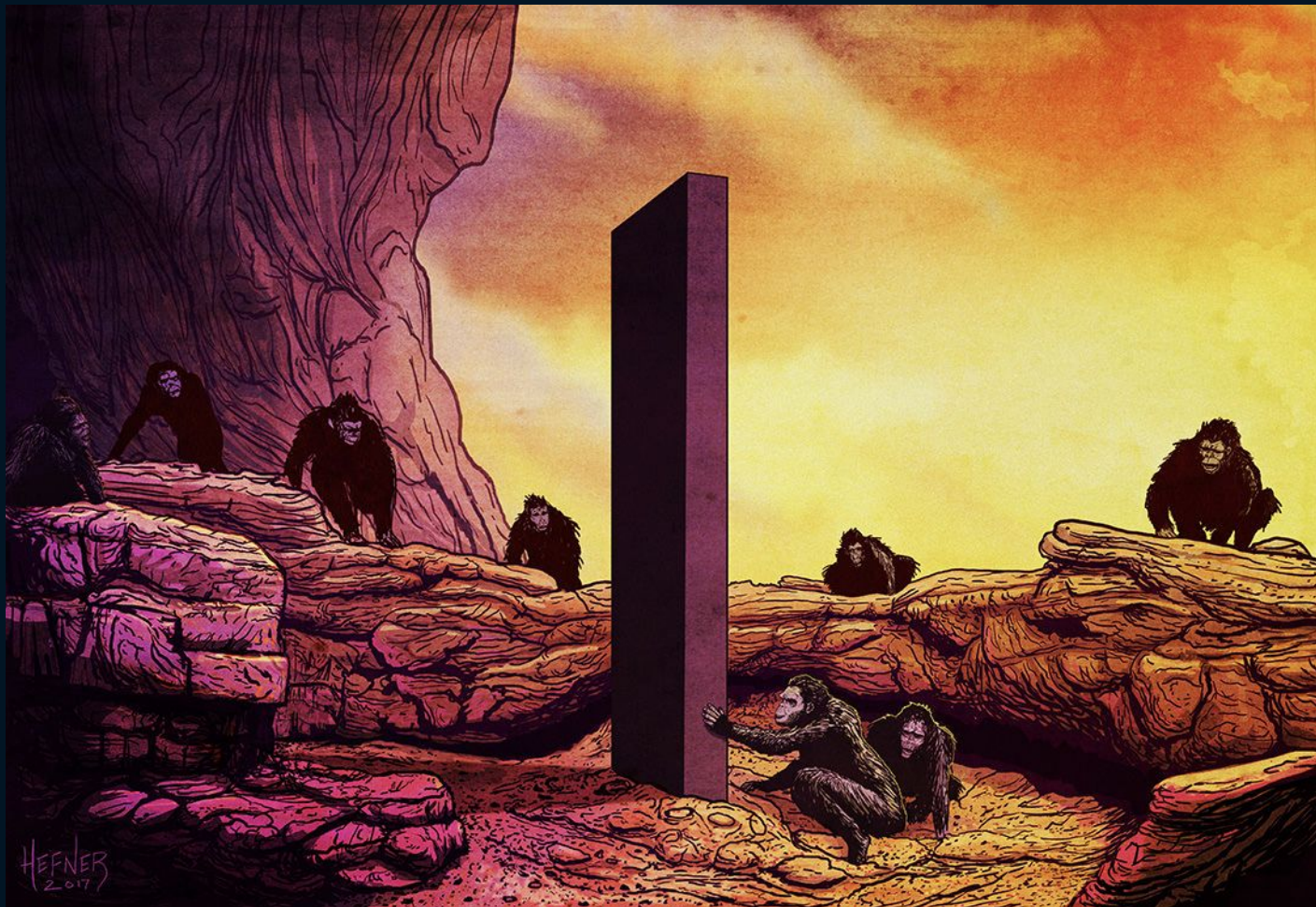
OPEN'19

Past, Present and Future of API Management

Antwerp

May 2019

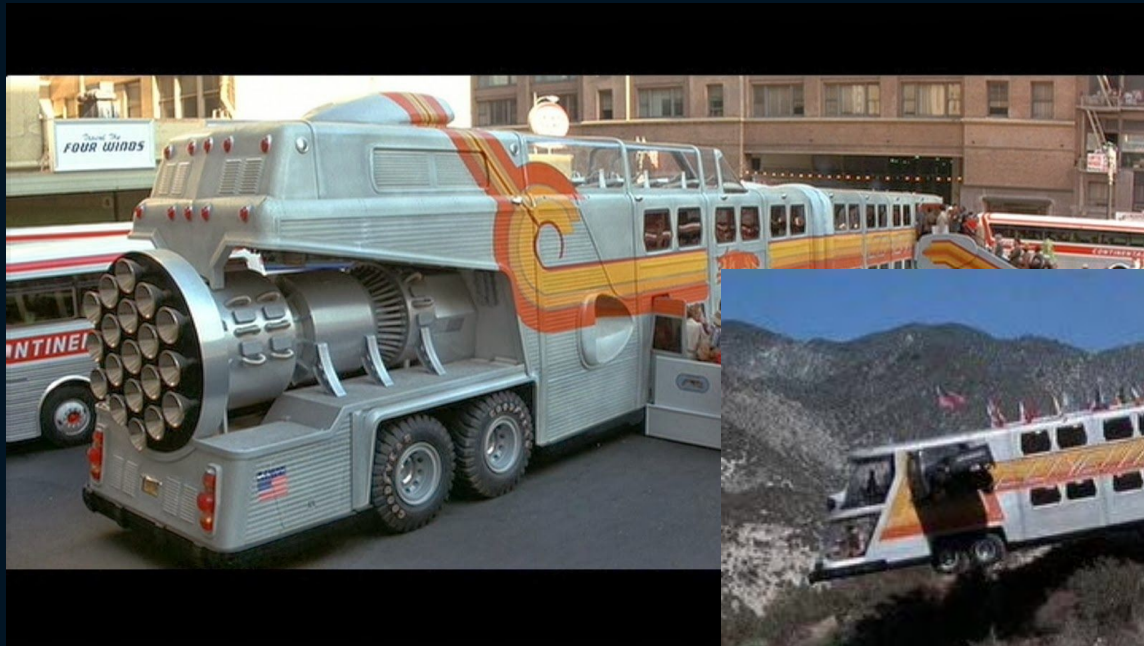




```
<?xml version='1.0' encoding='UTF-8'?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <SOAP-ENV:Body>
    <ns1:BabelFish xmlns:ns1="urn:xmethodsBabelFish"
      SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
      <translationmode xsi:type="xsd:string">de_en</translationmode>
      <sourcedata xsi:type="xsd:string">Hallo Welt, Guten Tag</sourcedata>
    </ns1:BabelFish>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

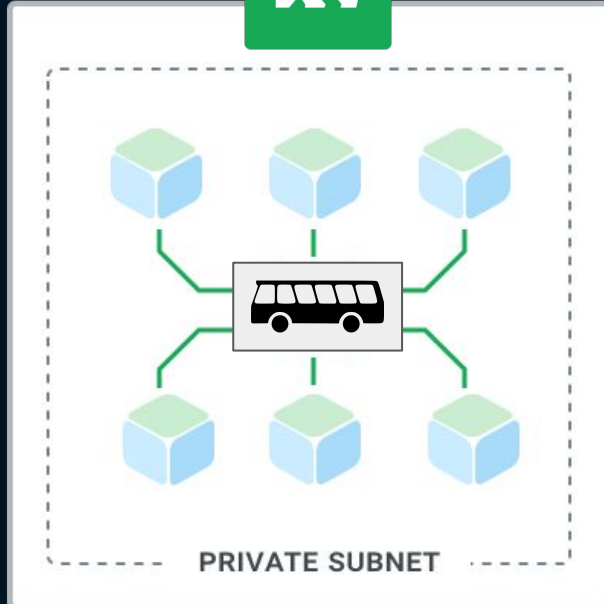
```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <SOAP-ENV:Body>
    <namesp1:BabelFishResponse xmlns:namesp1="urn:xmethodsBabelFish">
      <return xsi:type="xsd:string">hello world, good day</return>
    </namesp1:BabelFishResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Enterprise Service Bus



https://en.wikipedia.org/wiki/The_Big_Bus

API Gateway



```
<?xml version='1.0' encoding='UTF-8'?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <SOAP-ENV:Body>
    <ns1:BabelFish xmlns:ns1="urn:xmethodsBabelFish"
      SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
      <translationmode xsi:type="xsd:string">de_en</translationmode>
      <sourcedata xsi:type="xsd:string">Hallo Welt, Guten Tag</sourcedata>
    </ns1:BabelFish>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
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<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <SOAP-ENV:Body>
    <namesp1:BabelFishResponse xmlns:namesp1="urn:xmethodsBabelFish">
      <return xsi:type="xsd:string">hello world, good day</return>
    </namesp1:BabelFishResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

```
{  
  "translationmode": "de_en",  
  "sourcedata": "Hallo Welt, Guten Tag"  
}
```

```
{  
  "translated": "hello world, good day"  
}
```

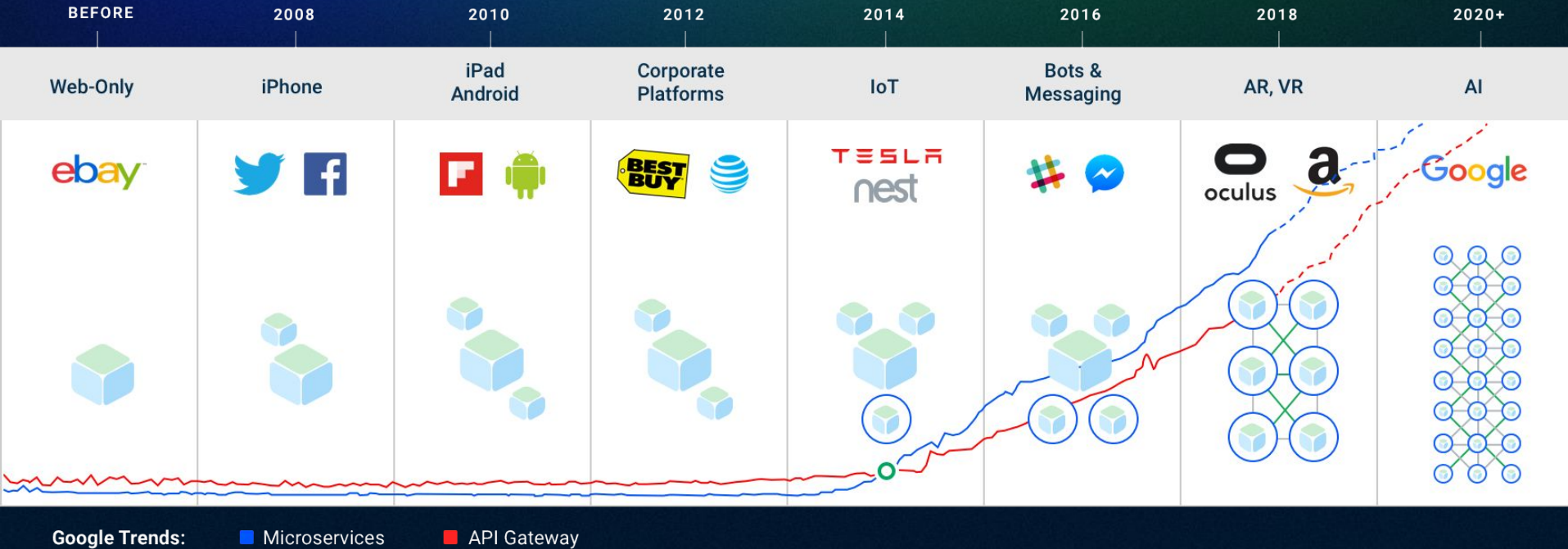
Gateway - from FAST to FAT





docker

Successful businesses are Service-driven



Kong

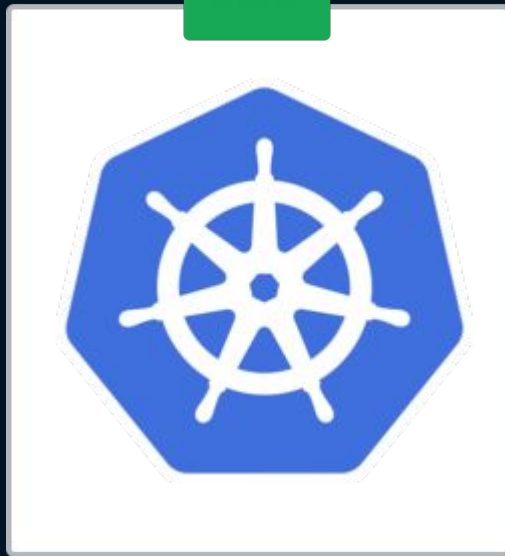
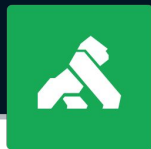


Kong - Deployment Agnostic



LIVE

Ingress Controller

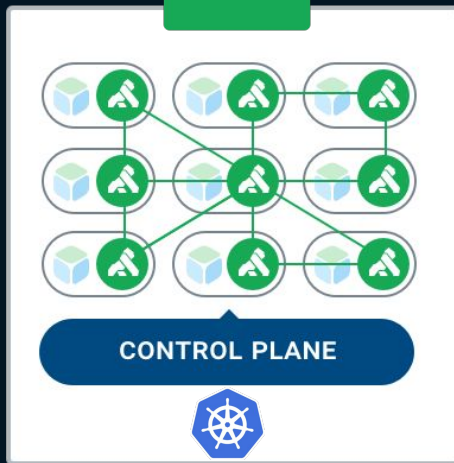
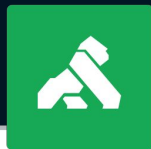


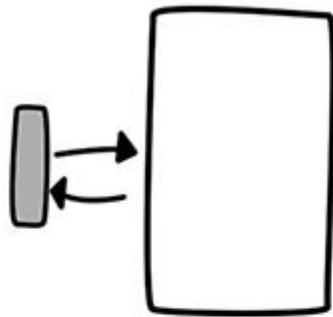
LIVE

Fallacies of distributed computing

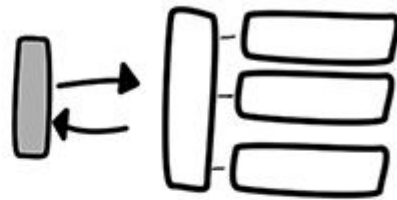
1. The network is reliable.
2. Latency is zero.
3. Bandwidth is infinite.
4. The network is secure.
5. Topology doesn't change.
6. There is one administrator.
7. Transport cost is zero.
8. The network is homogeneous.

Service Mesh

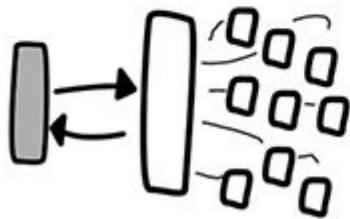




Monolithic Architecture



Component Architecture



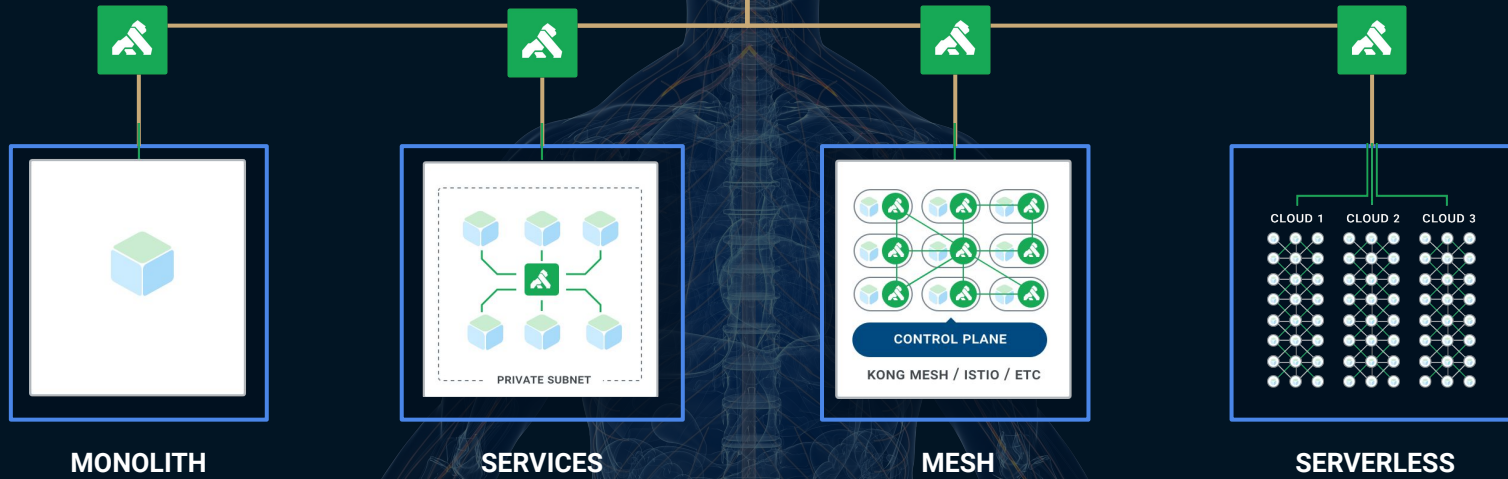
Microservice Architecture



Typical Architecture

Evans, 2019

Service Control Platform





<https://konghq.com>

<https://github.com/Kong>

@svenwal

sven@konghq.com

